

VISVA-BHARATI

Annual Report 2012-2013

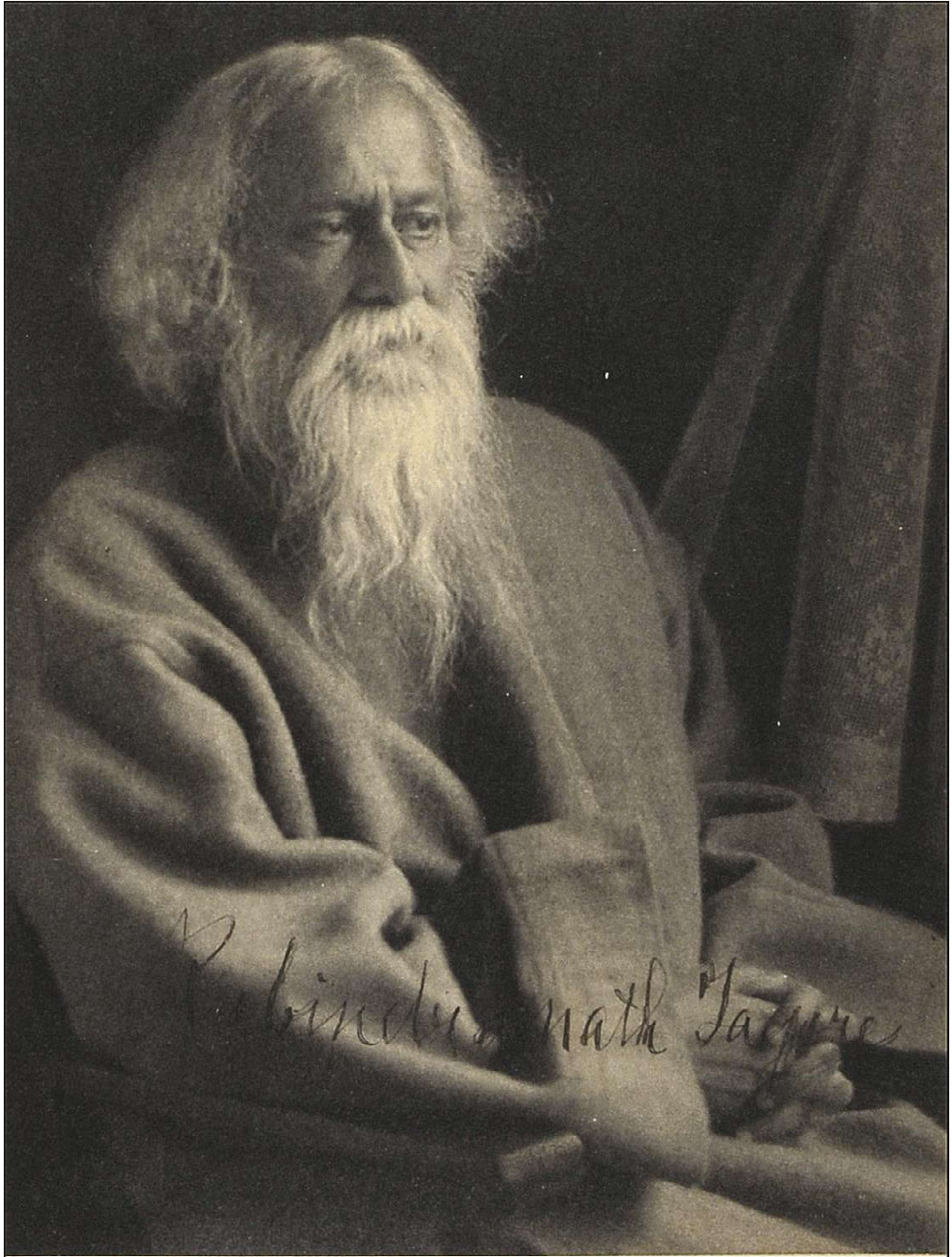


Santiniketan
2013

यत्र विश्वं भवत्येकनीडम्

YATRA VISVAM BHAVATYEKANIDAM

(Where the World makes its home in a single nest)



आचार्य
डॉ० मनमोहन सिंह
ACHARYA
DR. MANMOHAN SINGH
उपाचार्य
सुशान्त दत्तगुप्त
UPACHARYA
SUSHANTA DATTAGUPTA

विश्वभारती VISVA-BHARATI

(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notificatin No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

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सं./No. _____



दिनांक/Dated _____

Visva-Bharati Annual Report 2012-13

Foreword

I am pleased to write the Foreword of this year's Annual Report. During the period of this report over the last one year Visva-Bharati has made important strides towards fulfilment of its academic, administrative and financial objectives.

In the academic sector we have made it a point to hold our Convocation regularly every year so that deserving students do not suffer. A very large number of Ph.D degrees, numbering more than two hundred, have been awarded over the last one year. The Visva-Bharati Central Admission Test is being reviewed by a committee, chaired by Prof. Suranjan Das, Vice-Chancellor of Calcutta University with the aim to make further improvements on its format, contents, etc. Initializing schemes of Visiting Professors, Scholars-in-Residence and other visiting positions have opened up the University once again to outside scholars, thus rejuvenating the academic atmosphere further. We have also had a larger number of foreign students enrolled this year. A META university programme encompassing Visva-Bharati, Calcutta University and I.I.M., Joka, offers exciting possibilities of networking and complementing each other in respective positions of strengths and weaknesses. A committee with external participation is looking into means to further improve cherished objectives of Patha-Bhavana. Concomitantly, renewed attention is being paid to Sriniketan in general, and Siksha-Satra in particular, to bring them back into the mainstream of Visva-Bharati. Various events conducted by Sangit Bhavana on 'Song Offerings', Asia's first Nobel prize and *Visva-Parichay* throughout the country, have been much appreciated. The last but not the least, the *India*

Today rating of Kala Bhavana as the number one undergraduate curriculum in Fine Arts in India, has brought a lot of joy and has instilled tremendous self-confidence.

On the administrative and financial fronts it is a matter of gratification that we have been able to settle the terminal benefits of our employees during the very month of their retirement. The genuine needs of a large number of our colleagues towards pay fixation, etc. have been catered to.

For the first time in Visva-Bharati's history its girls' basketball team has crowned the East Zone championship. Regarding the physical ambience of the campus it is for everyone to see that the environment is cleaner, greener, more illuminated and free from plastics and other intrusive materials.

I am overall happy with the progress we have made but am also fully aware that a lot more needs to be achieved before we can bring back the old glory to this great university.



(Sushanta Dattagupta)
Vice-Chancellor

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Chapter-1

Introductory Overview

The genesis of Visva-Bharati, goes back to the middle of the nineteenth century. In 1863, Maharshi Debendranath Tagore, the Poet's father, chose a tranquil piece of land by the side of the river Kopai to perform heavenly endeavour. Under the shade of two "Chhatim" trees he built a small retreat for meditation. Day by day he felt peace of mind and soul.

In 1888, he dedicated this place for establishing an ashrama and also provided for establishment of a Brahma Vidyalaya and a library.

Later on, on the 23rd day of December, 1901 (7th Poush, 1308 BS) Rabindranath Tagore started a school called Brahmacharyasrama with no more than five students on the roll. Today, this has come to be known as Patha-Bhavana.

The formal inauguration of Visva-Bharati took place on December 22 in the year 1921. The constitution of Visva-Bharati was registered in May 1922. On 1st May, 1951, Visva-Bharati was declared a Central University and an Institution of National Importance by an Act of Parliament.

The dream of the founder Acharya Rabindranath Tagore was to create Visva-Bharati as a place where the world makes a home in a single nest – *Yatra visvm Bhavatyekenidam*. The Western culture should be studied along with the Eastern to blend into common fellowship, and to provide a centre where study and research on religion, literature, science and art of all civilizations free from antagonisms of race, nationality, creed or caste, would be made.

The statute and functions of all the major institutions of the University have been redefined in Amendment Acts of 1961, 1971 and 1984 and the university continues to grow with new areas and courses along with the original ones.

Institutional Structure Today

Visva-Bharati, as per the Act of Parliament of 1951, has the President of India as the Paridarsaka (Visitor) and the Governor of West Bengal as the Pradhana (Rector). The President of India appoints the Acharya (Chancellor) and the Upacharya (Vice-Chancellor) of the University. The Act of 1951, with certain amendments made by Parliament thereafter, and the Statutes of Visva-Bharati constitute the basis of the powers and functions of the university and its constituent authorities. The chief decision-making bodies of the university are the Samsad (Court), the Karma Samiti (Executive Council), the Siksha Samiti (Academic Council), the Artha Samiti (Finance Committee), and the various Institute Boards and Patha Samitis (Boards of Studies).

The University has the following Institutes, namely :

At Santiniketan

Bhasha-Bhavana (Institute of Languages, Literature & Culture)
Vidya-Bhavana (Institute of Social Sciences)
Siksha-Bhavana (Institute of Science)
Kala-Bhavana (Institute of Fine Arts)
Sangeet Bhavana (Institute of Music, Dance & Drama)
Vinaya Bhavana (Institute of Education)
Rabindra Bhavana (Institute of Tagore Studies, Museum & Archives)
Patha Bhavana (Institute of Primary & Secondary Education)

At Sriniketan

Palli Samgathana Vibhaga (Institute of Rural Reconstruction)
Palli Siksha Bhavana (Institute of Agricultural Science)
Siksha Satra (Institute of Primary and Secondary Education)

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At Kolkata

Grantha Vibhaga (Publishing Department)

Besides, Visva-Bharati also guides the functioning of Agro-Economic Research Centre (A research centre sponsored by the Ministry of Agriculture integrated with Visva-Bharati) and the Computer Centre, which functions as a service centre that helps both academic and administrative departments, in addition to performing its academic functions.

Socially Relevant Research and Other Activities

Steps were taken to promote socially relevant research work in Humanities, Physical and Social Sciences, and need-oriented extension activities of weaker sections.

A short review of the various activities in consonance with the above is given below:

The major areas of research covered by Siksha-Bhavana (Institute of Science) include Plants and Herbicides, Crop-nutrition, Forestry, Pisciculture, Atomic Research, Environmental pollution concerning Agricultural production and fisheries and also Industrial pollution, Immunization of plants and identification of certain epidemics. The Department of Zoology has been identified as a department of Special Assistance by U.G.C. under the special Assistance Programme with two thrust areas of teaching and research namely Fish Biology and Environmental Biology.

The Agro-Economic Research Centre took up research work related to (a) Role of Non-Government Agencies in Agricultural Development in Bihar, (b) Marketing of Agricultural Commodities concerning processing and input supply, (c) Decentralised planning in Agriculture and Rural Development, (d) Effect of Subsidies on Agricultural Development, (e) Economic Viability of Marginal and Small Farms and (f) Agricultural Marketing with special focus on progressing and inputs supplies (West Bengal).

Palli Samgathana Vibhaga sought to bring about regeneration of village life through self-help and self reliance in the villages around Santiniketan and Sriniketan through action-oriented programmes such as Mass Literacy programme, adult education, programmes undertaken by Brati Balak and Youth Organisation, rural library services, craft extension & training, etc., especially in the areas inhabited by scheduled castes and scheduled tribes and other backward classes.

Palli Charcha Kendra (Centre for Rural Studies) focused its attention on Anti-Proverty programmes in Rural Areas with an in-depth study of "Operation Barga", Agricultural Production and Agricultural Marketing under ICAR, and studies in Language Corruption and Culture confusion of the Tribal Communities, especially the Santhal Community.

Palli Siksha Bhavana (Institute of Agricultural Science) took up (a) All India Coordinated Research projects on weed control under USDA and ICAR, (b) Nocil Research project on Weed Control on rice, (c) Oil-seed research scheme, (d) The effect of Neem Extract created on various crops, (e) A village level survey on nature, composition and utilisation of wastes under NROER and (f) Effect of irrigation and nitrogen on growth of crops, Agricultural Economy for the growth of Farm-Capital by introducing large scale, Jute, Sugarcane, Mustard Seed cultivation under the sponsorship of Visva-Bharati. Apart from the above, socially relevant projects undertaken by the Department of Plant Protection included (a) Integrated Pest Management, (b) Post-harvest Pathology, (c) Nematode Ecology, etc. A Soil Testing laboratory has also been set up in collaboration with the State Government, developing efficient soil testing methods for estimation of available soil phosphorous and potassium in lateritic soils in relation to production of rice crop.

The Department of Social Work organised programmes of socially relevant field studies like (a) Drop-outs to join schools, (b) Utilisation services of the health centres, (c) Investment in Agriculture and Industry by Co-operative Banks, (d) Family in socially distress, (e) Self-employment for SC/ST community and other backward classes of the rural population and special projects for the physically handicapped. It further initiated a community-based rehabilitation programme in collaboration with other governmental agencies in the neighbouring villages.

The Institute of Humanities and Social Science took up research programmes in Philosophy, Religion, History, Economics,

Political Science and various languages, both Indian and foreign. Mention may be made of Bengali, Sanskrit, Palli & Prakrit, Persian, Urdu, Hindi, Santhali, Oriya, Tamil, Marathi, Tibetan, Chinese, Japanese, Russian etc. Special studies on Buddhist literature and religion are being carried out in the Departments of Chinese Language & Culture and Indo-Tibetan Studies. They have a rich store house of old manuscripts. The Department of Oriya has taken up a special study of the Folklore of Orissa. Nippon Bhavana, i.e., the Japanese Studies & Culture Centre has been re-oriented towards cultural programmes between India and Japan with financial assistance from Japan.

That apart, the Indira Gandhi Centre for National Integration organises workshops and seminars on curricular development to determine how the culture of National integration may be taken up in the Secondary and Higher Secondary schools as a course of studies.

Apart from regular curricula in Computer Science at B.Sc. and M.Sc. levels, there is an independent Computer Centre of marked distinction imparting regular training and computation facilities to the Visva-Bharati community, both academic and administrative, to foster the generation of a computer culture. Computation facilities are also available in the following departments: English, Botany, Kala Bhavana, Mathematics, Palli Siksha Bhavana, Physics, Rabindra Bhavana, Zoology, and Agro-Economic Research Centre.

Mention may also be made of extension activities of students, which were marked by a special and socio-economic significance. These were organised in the form of regular programmes of NCC, NSS, Physical Education, and functions and festivals, including educational excursions which entailed an interaction with the people of the adjoining rural areas, mostly inhabited by scheduled castes and scheduled tribes. The salient features of these extension activities related to social services, protection of the environment, eradication of illiteracy, primary health care as also the campaign against drug addiction.

The above gives a comprehensive view of the steps taken by the university to promote socially relevant research in tune with the dream of its founder Rabindranath Tagore, who looked forward to social uplift in India through socially relevant education programmes.

Functions and Festivals

The functions and festivals of Visva-Bharati are unique and have influenced, to a great extent, the life-style of the members of the University community. On these occasions, the entire community comes together in the wide open beauty of nature to experience a total Ashram life, chanting Vedic hymns and singing Rabindra Sangeet in the Mandir, Chhatimtala and Amrakunja.

Santiniketan Karmi-Mandali organised the following functions and festivals of the University during the year 2012-2013:

- i. Varsha-Sesh on the occasion of Bengali year ending on 13th April 2012 (Friday, 30th Chaitra, 1418 BS).
- ii. Nava-Varsha on 14th April 2012 (Saturday, 1st Vaisakh, 1419 BS).
- iii. Gurudev's 151th Birth Anniversary was celebrated on 8th May 2012 (Monday, 25th Vaisakha, 1418 BS).
- iv. Gurudeva Smarana, the 71th death anniversary of Gurudev and Vriksha ropan was observed on 8th August 2012 (Wednesday, 22nd Shravana, 1419 BS).
- v. Halakarshana Utsava, celebrated on 9th August 2012 (Thursday, 23rd Sravana, 1419(BS) at Sriniketan.
- vi. Rabindra Saptaha was observed from August 8 to 14th, 2012 (Shrabana 22 to 28, 1419 BS) Several lecture programmes were arranged at Sriniketan and Santiniketan on various topics related to Gurudeva Rabindranath Tagore.
- vii. Silpotsava was celebrated in Silpa Sadana, Sriniketan on 17th September 2012 (Monday, 31st Bhadra, 1419 BS).
- viii. Poush Utsava was observed on 23rd December 2012 (Friday, 7th Poush, 1419 BS) at Chhatimtala, the beginning of a three days-festival with various cultural programmes, exhibitions, fire works and other entertainments widely known as Poush Mela.

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- ix. Maharshi Samarana, the death anniversary of Maharshi Devendra Nath Tagore was observed on 21st January 2013 (6th Magh 1419 BS).
- x. 90th Anniversary celebration of Sriniketan was observed from February 6 to 8, 2013. A three days festival with various cultural programmes, exhibitions, fire works and other entertainment widely known as Magh Mela.
- xi. Vasanta-Utsava, another popular festival was celebrated with traditional enthusiasm and gaiety on the day of Dolpurnima, 27th March 2013 (Wednesday on 13th Chaitra, 1419(BS).

Other Functions and Festivals—01.04.2012 to 31.03.2013

July 15, 2012	Dharma Chakra Pravartana (Guru Purnima)
August 15, 2012	Swadhinata Divas (Independence Day)
September 27, 2012	Rammohan Smarana
October 02, 2012	Gandhi Janma Jayanti
December 19, 2012	Dinendra Janmotsava
December 25, 2012	Christotsava
January 23, 2013	Netaji's Birth day
January 25, 2013	Maghotsava
January 26, 2013	Republic Day
March 10, 2013	Gandhi Punyaha

Finance

The University is almost totally dependent on the U.G.C. grants for day to day running expenditure, a major part of which is in the nature of salaries etc. to teaching and non-teaching staff. The Maintenance grant (2012-2013) received from U.G.C. is Rs. 14,846.92 lakhs as against actual expenditure to the tune of Rs.12,737.55 lakhs during 2011-2012.

Endowment Lectures in 2012-13

SL. NO.	Name of the Endowment Lectures	Speaker	Topic	Date & Place
1	Maharshi Debendranath Memorial Lecture	Prof. Kalyan Bagchi	Upanishad Chintar Gobhirota O Baypti	24.12.2012, Conf. Hall, Central Library
2	Amalabala Devi Endowment Lecture	Sw. Atmapriyanandaji Maharaj (V.C. Belur Vivekananda University)	Swami Vivekanander Vedanta Bhavana	21.3.2013, Conf. Hall, Central Library
3	Binodini Memorial Lecture	Prof. Prodyut Kr. Mukhopadhyay	Ethical Globalization from Indian Philosophical Perspective	Central Library 31.03.2013
4	Nizam Endowment Lecture	Prof. Hafiz Md. Tahir Ali	Islamic History & Culture	4.2.2013 Bhasha Bhavana
5	Hazari Prasad Dwivedi Memorial Lecture	Shri Govind Mishra	Adhunikata Aur Prompora ke : Hazari Prasad Dwivedi ke Upyanash	15.03.2013, Central Library
6	The Nripendra Chandra Bandyopadhyay Memorial	Prof. Amritasudan Bhattacharya	Rabindranath O Bankim Chandra	04.03.2013 Central Library

OBITUARY
As on 01-04-2012 to 31-03-2013

1. Moli Pal, former Employee, Vidya-Bhavana, Visva-Bharati
2. Subhas Roy, former Asst. Lecturer, Siksha-Satra, Sriniketan
3. Biren Hazra, former Employee, P.M Hospital, Visva-Bharati
4. Subhas Chowdhury, former Employee, Granthana Vibhaga, Kolkata
5. Arun Mukherjee, Employee, Palli Siksha Bhavana, Sriniketan
6. Surendranath Chatterjee, former Adhyapaka, Palli Charcha Kendra
7. Sashi Ranjan Chakraborty, former Employee, Central Library, Visva-Bharati
8. Manabesh Chandra Moitra, Employee, Palli Samgathana Vibhaga, Sriniketan
9. Amar Nath Bhaduri, former Employee, Finance Office, Visva-Bharati
10. Bipad Taran Bagdi, former L.S.S, Sriniketan, Visva-Bharati
11. Anath Bandhu Roy, former Employee, Guest House, Visva-Bharati
12. Sushil Kumar Sarkar, former Employee, Engineering Dept. Visva-Bharati
13. Som Hembram, former Employee, Garden Section, Visva-Bharati
14. Pandit Ravi Shankar, "Deshikattama" (Annual Convocation of 1981, held on 21st December 1982)
15. Inder Kumar Gujral, former Chancellor
16. Bhanu Gopal Basu, former Dy. Registrar
17. Bangabala Bhattacharya, former Professional Assistant , Hindi-Bhavana
18. Durga Pada Hazra, former Employee, Library
19. Atunu Banerjee, former employee, Watch & Ward Section
20. Jaydev Hazra, former employee, Patha-Bhavana
21. Mariram Bagdi, former employee, Horticulture, P.S.B.
22. Eklata Khan, former Nurse, P.M. Hospital
23. Sunil Kumar Goswami, former Asstt. Engineer, Engineering Department
24. Dulal Chandra Das, former Ground Man, Physical Education
25. Sudhir Kumar Laha, former Senior Compositor, Press
26. Mohan Chandra Garai, former employee, P.M. Hospital

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Category wise Administrative Staff as on 31-03-2013

Group	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
A	50	6	9	0	3	0	4	1	-	-
B	68	12	12	1	5	0	3	0	-	-
C	358	51	65	7	14	5	14	4	3	-
D	174	32	106	28	20	14	12	2	3	-

UNIVERSITY AT A GLANCE

Total no. of Students : 8353 (Male—4837, Female—3516)

Total no. of Teaching Staff : 650 (Professor—51, Associate Professor-108, Asst. Professor-356, Asstt. Lect.—135)

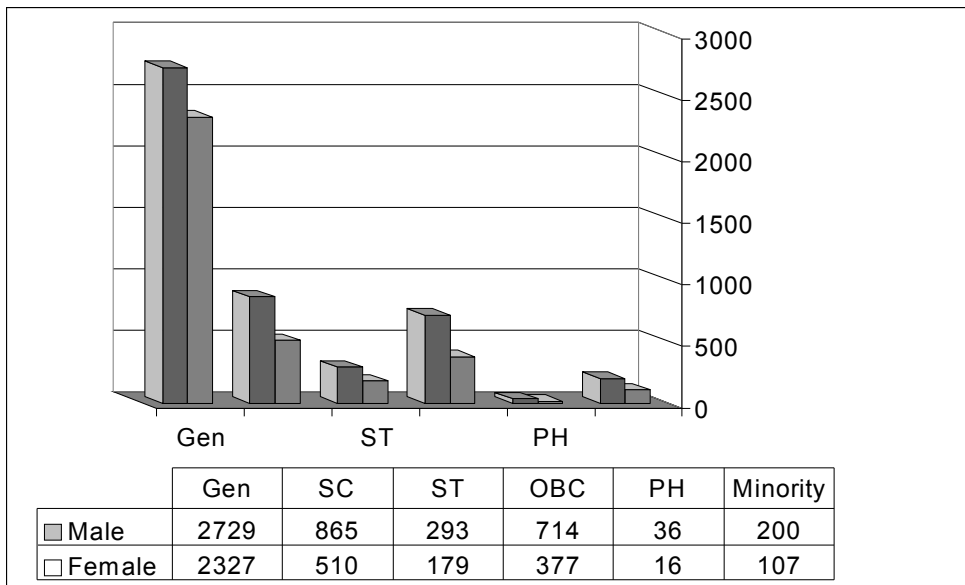
Total no. of Administrative Staff : 1086

Group-A : 73 Group-B : 101 Group-C : 521 Group-D : 391

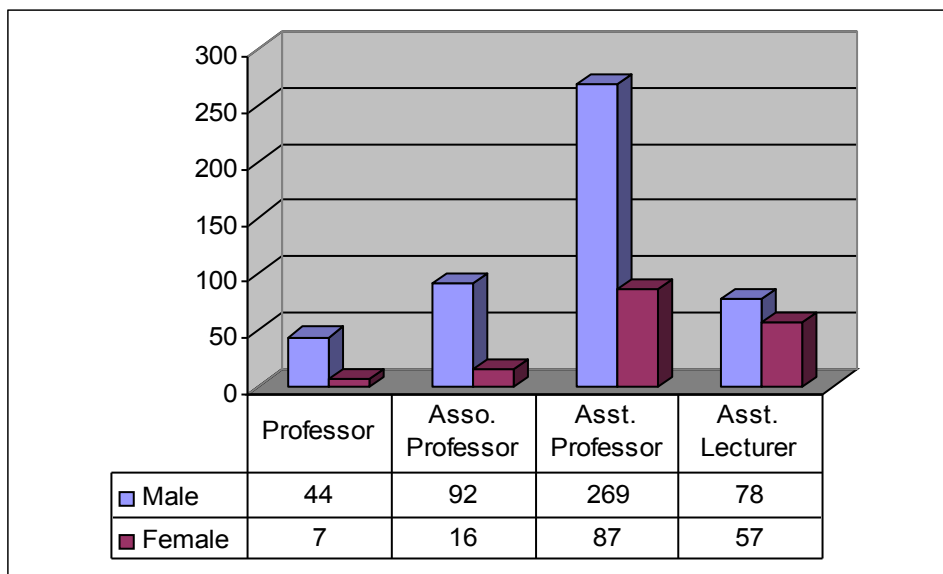
Total no. of sanctioned post of teaching staff (Prof. 70, Associate Prof. 153 Asst. Prof. 414, Asst. Lect. 159)

Total no. of sanctioned post of administrative staff (Group-A 90, Group-B 119, Group-C 686, Group-D 871)

Student Composition as on 31.03.2013

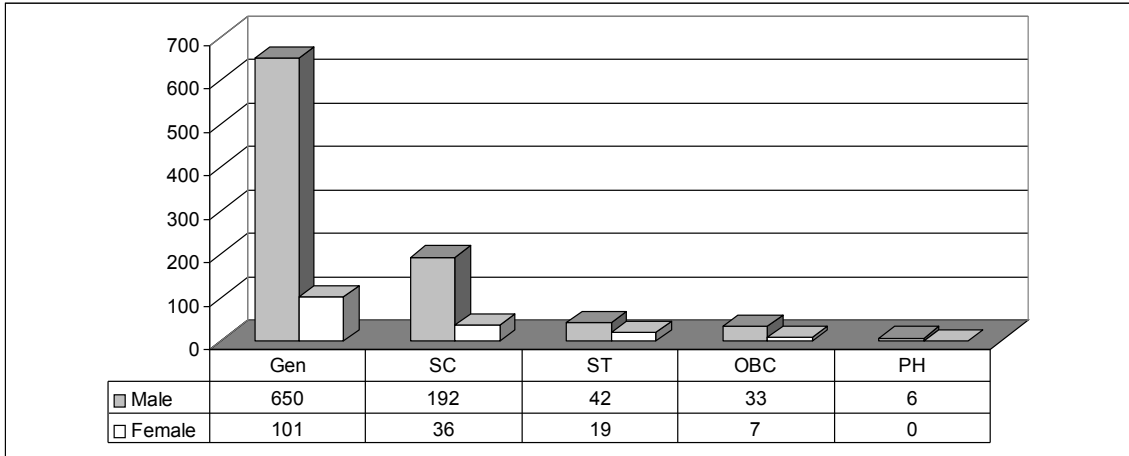


Teaching Staff Composition as on 31.03.2013

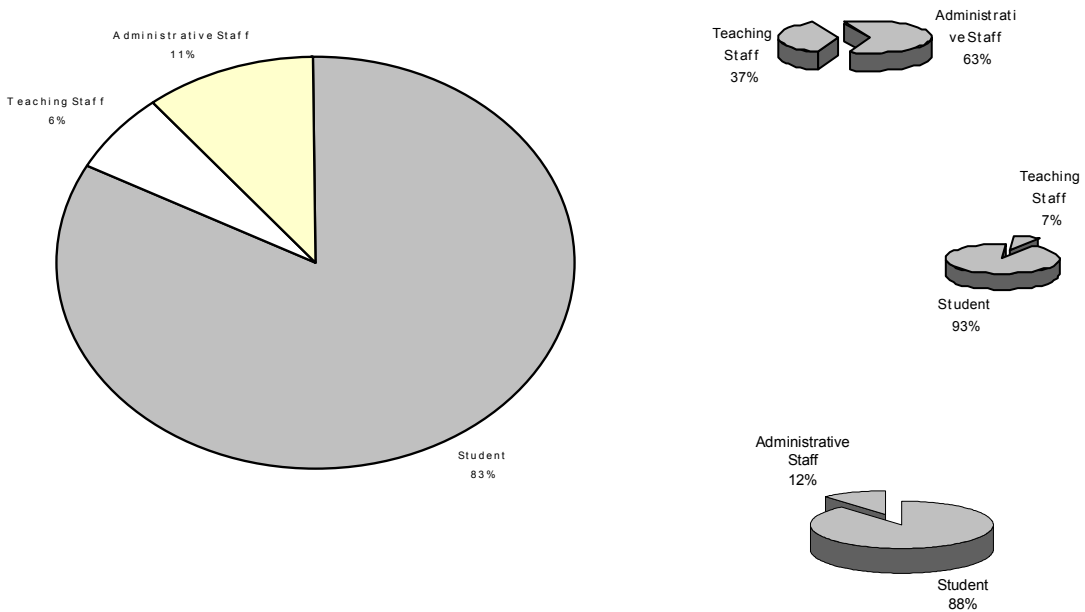


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Administrative Staff Composition as on 31.03.2013



Percentage of Student, Teaching Staff and Administrative Staff as on 31.03.2013



Chapter-2

BHASHA-BHAVANA

(Institute of Languages, Literature and Culture)

Introduction

Bhasha-Bhavana, the Institute of Languages, Literature and Culture, was set up in order to promote interaction between various language departments in the varsity campus of the university. It embraces the major faculties of the university with ten major departments. These ten departments offer the regular courses of English and other Indian languages such as Sanskrit, Bengali, Hindi, Odia, Marathi, Tamil, Assamese, Pali, Prakrit and Santali, and Foreign Languages, i.e., Chinese, Tibetan, Arabic and Japanese as well as some subsidiary units, such as Centre for Buddhist Studies etc., functioning under the Bhasha-Bhavana.

Generally, it offers regular courses of study both at the undergraduate and the post-graduate levels as well as Research and M.Phil. facilities in their constituent Departments for Languages, Literature and Culture. The Language Certificate Courses are mainly for regular students and the staff members of Visva-Bharati and the resident of the locality. A one-year integrated course on Indian Culture and Civilization is offered to foreign students.

A good quantity of manuscripts in Sanskrit, Bengali, Odia, Tibetan, Arabic and Persian are preserved in the departments concerned under Bhasha-Bhavana. Visiting Professors and scholars from all over the world regularly visit Bhasha-Bhavana where exchange of ideas open up new areas of research, to which significant contributions have been made. Bhasha-Bhavana holds the promise of upholding Tagore's great idea towards establishing National Integration and harmony through dissemination of learning and the values of self-sacrifice and universal brotherhood.

Bhasha-Bhavana has also initiated the very activity of interdisciplinary studies and the process of acculturation what Gurudev Rabindranath Tagore desired for. The Bhavana is also honoured to announce that Department of Chinese Language and Literature, Bhasha-Bhavana Visva-Bharati has been organizing student exchange programme with the Yunnan University of China.

Seminar/Conference/Symposium

A Three-Day National Seminar on "Rabindranath Tagore and Indian Folkloristics" was organized by Bhasha-Bhavana from 14-16 February, 2013 in collaboration with Indian Council of Social Research (ICSSR), New Delhi.

DEPARTMENT OF BENGALI

Name of the students qualified in UGC/CSIR/NET/SET/RET examinations:

NET with JRF: 5

NET: 12

RET:7

Departmental Seminars

- Sri Susobhan Adhikary delivered Rathindranath Tagore Memorial lecture on “Shilpi Rathindranth” on Nov. 27, 2012, birth day of Rathindranath.
- Prof. Amitrasudan Bhattacharya delivered “Nripendranchandra Smarak Baktrita” *Bankimchandra O Rabindranath* on March 04, 2013

Extension activities/ NSS/Cultural and other activities

- Educational tour to Vizag – Hyderabad Dec. 31, 2012-Jan.07, 2013

Academic distinctions gained by

- Prof. Sudip Basu was recipient of *Sarba-Bhasha Sahityakar Samman* by Akhil Bharatiya Sahitya Parishad, New Delhi, at Bhopal (Madhya Pradesh) on October 19, 2012
- Dr. Milankanti Biswas was awarded *Adwaita Mallabarman Smarak-samman-2013* by Uttarbanga Natyajagat, Siliguri on March 3, 2013

Alibha Dakshi

Publication

Article:

- Caryagitir Bhasha: Bhasatavikbislesanerpreksite, The Heritage, Multi-Lingual Research Journal on Indology Vol 3, Issue-2 2012, Guwahati

Conference/ Seminar/ Workshop etc.

National Seminar

- Presented a paper on *Bangla Bhashabiggan o Rabindranath* on 9.4.2012. in a Three day National seminar on Visva Banga Sahitya o Sanskriti, Ranchi, 8-10.04 2012
- Presented two papers entitled ‘caryabhasabitarkita keno?’ bhasatavikparyalochana’ ‘dhannyatmaksabdedhvanibyanjona: Rabindra Upanyaser-prekkhite’ on 16.7.2012 and 17.7.2012 at Bengali Dept., NBU for RC

Sudip Basu

Article:

- “চিলত গদ আন্দালেন সবুজ পেত্র ভূমিকা,” বিশ্বভারতী পত্রিকা, অক্টোবর-ডেসেম্বর ২০১২।

Seminar on Swami Vivekananda organized by the Sukumar Sengupta Mahavidyalaya, Keshpur, Midnapur, on 29th February 2013.

- Delivered lecture in the International Seminar on Swami Vivekananda organized by the Vidyasagar

Centre for Indological Studies, Rabindra Bharati University, on 25th March 2013.

Amal kumar Pal**Conference/ Seminar/ Workshop etc.**

1. Presented paper on 'Rabindracharchay Prashantachandra Mahalalobis' in a National Conference on 'Tagore, Bose and Mahalanobis—Confluence of Minds' organised by Sir J.C. Bose Trust in collaboration with Visva-Bharati on 28/07/2012
2. Presented paper on 'Rabindranath Thakurer Vidyalay Bhabna' in the International Conference 'Tagore and global vision: foregoing bonds with Worlds' organised by Dept. of History VB on 15/01/2013
3. Chaired a session National Seminar on Rabindranath Tagore and Indian Folkloristics. organised by BhashaBhabana, VB, in collaboration with ICSSR, New Delhi, CIIL, Mysore on Feb 14-16 2013, Santiniketan
4. Presented paper on 'Tagore's influence on Bengali Poetry' in the seminar organised by Assamese, Marathi and Tamil language unit, VB on 08/03/2013

Publication :**Books:**

1. Mithur Maner Katha (revised edition) Dey's publishing, Kol-73, Dec 2012

Aparna Roy**Conference/ Seminar/ Workshop etc.**

1. Presented paper on 'Binodiniir Kabita O UnishSatake MeyederLekhalikhi' in the 29th Annual Conf on Paschimbanga Itihas Samsad held at Lady Brabourne College, Kolkata, 26th January, 2013
2. Delivered lecture as a resource person on the topic 'Reading of Social History Through MSS' in National Level Workshop organized by National Mission for Manuscripts, New Delhi in collaboration with Dept of Odiya, VB, February 2013

Abhra Bose**Conference/ Seminar/ Workshop etc.**

1. Paper titled *Brass Chariot of Bankati* presented on 22 February, 2013 at the International Congress of Bengal Art, organized by International Centre for Study of Bengal Art, Dhaka and KhudaBaksh Oriental Public Library, Patna, 21-24 February, 2013
2. Keynote address of the UGC Sponsored National Seminar on Gitanjali and Rabindranath organized by Prabhat Chandra College, Contai, 21 March 2012.

Publication:**Articles:**

1. '*Jibansmriti*'r sangrupbishaya ekti prastab, Rabindra Bhavana, July August 2012, ISSN 2277-6354
2. *Inrejite Rabindra kabitar Satobarsha: Sima O Sambhabana*, Rabindra Bhabana, April June 2012 ISSN 2277-6354
3. *Madhusudaner Siksha, Sikshay Madhusudan*, Korak, May-August 2012
4. *Rabindrachetanay Himsha o Juddha*, compiled in a volume titled *Violence and its Representation*, published by the Academic Staff College, University of Burdwan, August 2012

Other Academic / Administrative activities:

1. Nominated as a Reviewer of a Peer Review Journal *The Prism* (ISSN : 2229-7537) published from MG College, Purulia
2. Co-Editor, Quarterly Journal *Rabindra Bhabana* ISSN: 2277-6354

Atanu Sasmal**Conference/ Seminar/ Workshop etc.**

1. Presented Paper titled 'RabindranatherKhapchara' on the occasion of National Seminar on Rabindranath Tagore and Indian Folkloristics organised by BhashaBhabana, VB, in collaboration with ICSSR, New Delhi, CIIL, Mysore on Feb 14-16 2013, Santiniketan

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Publication:

Book

1. Rabindranath ke Niye, Saptarshi, Kol-9, Feb 2013 (ISBN 9789382706137)

Manabendranath Saha

Conference/ Seminar/ Workshop etc.

1. Delivered lecture on 'Khandahar' organised by Kolkata Film Festival in 16.11.2012

Manabendra Mukhopadhyay

Conference/ Seminar/ Workshop etc.

1. Delivered lecture on Palli-sangathane Rabindra-udyog: EktiNandanikAdhyay at a jointly organized seminar at GurusadayMuseum, Joka, Kolkata in collaboration with the ministry of Culture , Govt. Of India on 08/07/2012
2. Presented a paper titled William Radicer "Real Gitanjali" ebong amader patha-pratikriya on a National Seminar organized by Rabindra-Bhavana , Visva-Bharati on 03/02/2013

Publication:

Articles

1. "Jiboneta puja holona sara" Athoba Ekti Balika Bidyalayer Apamrityu, Nirjansajane Nityapriyo (ISBN : 978-81-923688-0-1) Ed. By Sutapa Bhattacharya , EkushSatak , April 2012
2. Bideshider Rabindracharcharo Tattwa-jijnasa Samvab (a review article on Rabin Pal's Bideshider Chokhe Rabindranath, Sujan Prakashani , 2011), Rabindra-Bhabna (ISSN : 22776354), April –June 2012
3. Upanyaser Samaysatta : Ekti Khasra Bhavna, Antarmukh (ISSN :2249-3751), June 2012
4. Premier "Shesher Kabita" : Ekti Inter-textual Pathaprastab, Rabindranather Seshesher Kabita : Fire Dekha Nanachokhe (ISBN : 978-93-81329-13-9), Ed. by Rajatkishore De, Ratnabali, June 2012
5. Dojhokhnama : Ekti Tatkhanik Patha-Pratikriya Ebong Mushayar (ISSN : 0976-9307), Sharadiyo Samkhya 2012

Other Academic / Administrative activities:

1. Nominated as a Reviewer of a Peer Review Journal *The Prism* (ISSN : 2229-7537) published from MG College, Purulia

Biswajit Ray

Conference/ Seminar/ Workshop etc.

Public Lecture

1. Swami Vivekananda , the Prophet of Modern India, St.Xavier's Institution, Panihati, Kolkata, 21st December, 2012
2. Bankim:Kathaa, Lekhaa, Kaaj Victoria Memorial Hall, Kolkata, 30th June 2012

Paper presented in International Seminar

1. Tagore and his Global Vision: Forging Bond with the World, Department of History, Visva-Bharati, 14th January 2013
2. A Man of Letters: Rabindranath Tagore and his Epistles, Rabindra Bhavana, Visva-Bharati, 14th March 2013

Paper presented in UGC-sponsored National Seminar

1. Swami Vivekananda and his Contributions, Ramkrishna Mission Vivekananda Centenary College, 7th January 2013
2. Gender and Sexuality the Indian Self and its Forgotten Doubles: Reading Rabindranath, DEOMEL, Visva-Bharati, 19th February 2013
3. The Relevance of Swami Vivekananda in the 21st Century, Indira Gandhi Center, Visva-Bharati, 5th March 2013
4. Whither Cultural Studies: Context and Contestation, Department of English, University of Kalyani, 6th March 2013

Publication

Articles

English

1. "Revisiting Rabindranath's Santiniketan School: Demystifying Popular Perception" in Imtiaz Ahmed, Muchkund

Dubey&VeenaSikri edited Contemporarising Tagore and the World, ISBN 978 984 506 120 9

Books

1. *Professor Shankur Ses Diary* (Professor Shanku's Last Diary), Lalmati, Kolkata, ISBN 978 93 81174 81 4
2. *Andarbela* (Inner-hood) Parampara, Kolkata, ISBN 978 93 80869 56 8

Edited Volume

1. *Swami Vivekanander Bangla Rachana Sangkalan* (A Collection of Swami Vivekananda's Bengali Writings) Paschimbanga Bangla Academy, ISBN 978 81 7751 221 2

Milankanti Biswas

Conference/ Seminar/ Workshop etc.

1. '*Rabindranather Lokosanskriticharcha: Lokosanskriti Bigganer Aloke*' on the occasion of National Seminar on Rabindranath Tagore and Indian Folkloristic - organised by Bhasha Bhavana, VB, in collaboration with ICSSR, New Delhi, CIIL, Mysore on Feb 14-16 2013, Santiniketan

Publication

Article

1. '*Jyotirindranath o Rabindranath*' Antarbaha, Santiniketan Issn no- 2278-7380, May 2012
2. *Rabindranather Shishusikhabhabna o Santiniketan Ashram Bidyalayer Pratistha*, Rabindrabharati-Society, July 2012
3. '*Saibal Mitrer Galpe Hingsha o Santras*', Violence and its representation, Aug 2012, ASC, Burdwan University

Rita Modak

Publication :

1. 'Narimoner aloy narir paribartan', ItihasPrabandhamala 2012, Itihas Academy Dhaka

Shreela Basu

Conference/ Seminar/ Workshop etc.

1. Paper titled *Rabindranather Pratyashita -Pathak: Prapti O Abhiman*, presented on 14 December 2012 at UGC sponsored National Seminar, organized by Vivekananda College Thakurpukur 13-15 Dec 2012
2. Paper titled *Banglar Mandir Bhaskarje Nari*, presented on 25 January at Paschim Banga ItihasSamsad, 24-26 January, 2013
3. Paper titled *Terracotta Temple Complex at Sribati*, presented on 21 February at the International Congress of Bengal Art, organized by International Centre for Study of Bengal Art, Dhaka and KhudaBaksh Oriental Public Library, Patna, 21-24 February, 2013

Publication

Articles:

1. *Bharatshilpa Andolan, Kala-Bhavana O Rabindranath*, Rabindra Bhavana, ISSN no. 2277-6354, January-March, 2013
2. *Madhyajuger Banglay Shikarbritti: Sahitye of Mandir Bhaskarje*, ItihasAnusandhan, PachimBangaItihasSamsad, January, 2013, ISBN no 978-81-910874-3-7
3. *Madhyajuger Banglay Ramkatha: Bangla Sahitya o MandirBhaskarja*, Antarmukh, ISSN no 2249-3751, April-June 2012
4. *Narir Bishayadhikar: Rammohonerekti Pustikasamparketika*, Korak, September-December 2012

DEPARTMENT OF ENGLISH & OTHER MODERN EUROPEAN LANGUAGES

Name of students qualified in UGC/CSIR/NET/SLET/and GATE Examinations - No. 17

DEPARTMENTAL SEMINAR (Speakers, Title of the Seminar, Date)

- a) **DRS (SAP) Programme:** Two day International Seminar on “**Gender and Sexuality – the Indian Self and its Forgotten Doubles: Reading Rabindranath**” held from 18 -19 February, 2013.
- b) Two-day National Seminar on “**Dickens and the Long Nineteenth Century**” held on 15th and 16th of March, 2013.

NATIONAL & INTERNATIONAL SEMINAR/CONFERENCE/ETC.

Abhijit Sen

4-6 May 2012: Participated in the International Tagore Conference on *Tagore: Global Impact of the Writer in the Community* organized by the Scottish Centre of Tagore Studies at Edinburgh Napier University, UK; read a paper on ‘Rabindranath’s Theatre: Cross-cultural encounters’.

25 September 2012: Delivered a special talk on ‘Theatre versus Authority: Problems of Censorship in the English Renaissance Theatres’ at Ramakrishna Mission College, Narendrapur, Kolkata.

5 October 2012: Made a presentation on ‘Petrarch and his Influence on English sonnet writing’ at the seminar organized by the Department of English, Suri Mahavidyala, Suri, Birbhum.

8 October 2012: Delivered a special talk on ‘Shakespeare’s Theatre: Facts and Problems’ at the Turku Hansda Lapsa Hembram Mahavidyala, Mallarpur, Birbhum.

10 October 2012: Read a paper on ‘Performance as Interpretation: Reading the Text in the Theatre’ at the seminar *Performance as Interpretation in Reading American Drama Texts*, organized by JUSAS (Jadavpur University Society for American Studies), Department of English, Jadavpur University, Kolkata.

3 February 2013: Read a paper entitled ‘From *Gitanjali* to *Song Offerings*: translation, transcreation, transculturation’ at the National seminar on *From Gitanjali to Song Offerings* organised by Rabindra Bhavana, Visva-Bharati.

8-9 February 2013: As the DRS coordinator, organized the 4th DRS International Conference on *Gender and Sexuality: Reading Rabindranath* at the Department of English & Other Modern European Languages, Visva-Bharati.

Amrit Sen

19 July, 2012. Presented a paper titled “Mysticism in Tagore and Korean Literature” at the International Conference on “Mythology, Mysticism, Spirituality in Korean and Indian Culture”, jointly organized by Dongkuk University, Korea and Dept. of Philosophy and Comparative Religion, Visva-Bharati.

26 July 2012. Delivered two lectures titled, “Lord of all I survey: Defoe and Enclosures” and “A Sense of Empathy: The Animal Question in Coetzee” at the Eight Refresher Course in Comparative Literature organized by the Academic Staff College, University of Burdwan.

28 July 2012. Presented a paper titled, “Utopia, Anxiety, Praxis: Confluence of Minds”, at the One day National Conference on “Tagore, Bose, Mahalanobis – Confluence of Minds”, organized jointly by Sir J.C. Bose Trust, Kolkata in collaboration with Patha Chakra, Visva Bharati.

2 November 2012. Presented a paper titled “The Rajarshi in Indian History: Tagore and the Idea of Kingship”, at the International Conference on “Kingship in Indian History” organized by the Archive India Institute in New Delhi.

5 November 2012. Delivered an Invited lecture titled “The Travels of Rabindranath Tagore” at the Jagat Taran Educational Society at Allahabad.

5 December 2012. Delivered two lectures titled, “Metafiction” and “Metafiction in *The French Lieutenant’s Woman*” at the Refresher course in English organized by the Academic Staff College, University of Calcutta.

14-15 January, 2103. Presented a paper titled, “The Bridge Builder: Tagore and Sri Lanka”, at the International Seminar on “Forging Bonds with the world: Tagore and Internationalism” organized by the Department of History, Visva-Bharati.

5-6 February, 2013. Presented a paper titled, “Of Nations and National Anthems: The Case of Rabindranath Tagore” at the National Conference on Assertion of Identities: Rereading Texts in literature” organized by Kazi Nazrul Mahavidyalaya, Churulia.

12-13 February 2013. Chaired a session at the DEC Sponsored national Workshop on “Building Bridges: Teaching English Literature through ODL” organized by Netaji Subhas Open University.

17 February 2013. Presented a lecture titled “Tagore and Travel” at the Workshop conducted by Rabindra Bhavana, Visva-Bharati.

18-19 February, 2013. Presented a paper titled “Rabindranath’s Travelogues and the Absent Female Voice”, at the International Seminar on “Gender and Sexuality: The Indian Self and its Forgotten Doubles: Reading Rabindranath” organized by the Department of English and OMEL, Visva-Bharati.

18-19 February 2013. Presented a paper titled “The Animal Question: Literature and Animal Studies” at the UGC Sponsored National Seminar on Remapping the English Literary Canon: Language, Society and Culture”, organized by the Department of English, Vidyasagar University. Chaired a session at the Seminar.

Others

28 July 2012. Seminar Director of the One day National Conference on “Tagore, Bose, Mahalanobis – Confluence of Minds”, organized jointly by Sir J.C. Bose Trust, Kolkata in collaboration with Patha Chakra, Visva Bharati.

27-28 November 2012. Participated in the workshop on *Translating EV Kurup* at Sahitya Akademi Kolkata.

14-15 March, 2013. Joint Seminar Director of the International Conference on “A Man of Letters: Rabindranath Tagore and His Epistles” organized by Rabindra Bhavana. Chaired a session at the Seminar.

8-21 March 2013. Invited as Visiting Professor of English to deliver lectures on *Nationalism* and *Huckleberry Finn* under the UGC Merged Scheme Grant at the Department of English, Vidyasagar University.

22 March 2013. Invited to deliver two special lectures under the UGC Special Lecture Scheme on *Tom Jones* and *New Historicism* at Bankura Christian College, Bankura.

Awarded a Major Research Project on *Rabindranath Tagore and Science* by the University Grants Commission in March 2013.

Translated the text of *Shapmochan* and was the lead narrative voice in the performance of the dance drama at Colombo and Kandy as part of the Sangit Bhavana team that visited Sri Lanka in 2012.

Ananya Datta Gupta

Others

Completed a UGC Refresher Course in Comparative Literature from 14 July – 3 August 2012 at the University of Burdwan. Made a short presentation titled ‘Michel de Montaigne’s *Apology for Raymond Sebond* and the Early Modern Struggle with Anthropocentrism: An Eco-theoretical Perspective’. Secured Grade ‘A’.

Aruna Mukherjee

9 May, 2012. State level seminar on ‘Foreign Translation of Tagore’s Gitanjali’ organized by Hindi Department of Presidency University, Kolkata. Presented a paper “Russian Translation of Tagore’s Gitanjali”.

17 February, 2013. National seminar on ‘Rabindranath’s Reception in the West’ organized by Rabindra Bhavana, Visva Bharati. Presented a paper “Rabindranath’s Reception in Russia”.

1-2 March, 2013. National seminar on ‘Impact of Gitanjali on Indian Literature’ organized by Odiya Department, Visva Bharati. Presented a paper “Impact of *Gitanjali* on Russian Cultural Mosaic”.

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Debarati Bandopadhyay

29-30 August 2012. Presented a paper on “Uneven Development, Cultural Diversity and Ecocide in India Today: Reflections in the Literary Mirror” at the two-day National Convention on *Cultural Diversity and Development* organized by Gandhi Smriti and Darshan Samiti, New Delhi.

10-14 September 2012. Presented a paper on “The Social Roots and Shoots of Ecological Crisis: from Kropotkin to Bookchin and Beyond” on 13.9.2012 at a national workshop on *Planet, People or Profit? The Perilous Passage and the Capitalist Transformation of the Natural World* organized by Institute of Development Studies Kolkata and Indian Council of Historical Research at IDSK, Kolkata.

18-20 December 2012. Presented a paper on “Dickens and England: The Empire Writ Small” at the Dickens Bicentenary International Conference on *The Dickens World Revisited: Post-Imperialist Perspectives* organized by the Centre of Advanced Study, Department of English and the Centre for Victorian Studies, Jadavpur University.

6-7 February 2013. Presented a paper on “Of the Forest: Adivasi life in *Aranyak*” at the International conference on *Deterritorializing Diversities – Cultures, Literatures and Languages of the Indigenous (Comprehending Fluidity of Cultural Borders)* organized by the Department of English, Maharaja Agrasen College, New Delhi in collaboration with Indira Gandhi national Centre for the Arts and Department of English, University of Delhi and Forum for Teachers of English language and Literature.

8-10 February, 2013. Presented a paper on “Rewriting the Book of Genesis: Jeanette Winterson’s *Boating for Beginners*” at the Twelfth International MELOW conference organized by MELUS-India/MELOW in Chandigarh.

Dipankar Roy

31 August, 2012. Delivered a lecture on “Introducing Tagore” in one-day Seminar organised by Hiralal Bhakat College Nalhati, Birbhum on “Indian English Literature: A Journey from the Colonial to the Postcolonial Era.”

7 September 2012. Delivered the Binapani Memorial Lecture in Suri Vidyasagar College, Suri entitled “History’s Forgotten Doubles: ‘Hungry Stone’ and the Return of the Repressed.”

19-21 November 2012. Presented a paper “Negotiating the Novel: A Bangla Novelist’s Attempts to Translate the Untranslatable” in International seminar organised by Department of English Literature School of English Literary Studies, The English & Foreign Languages University, Hyderabad on *Unveiling a Secret Agreement: Revisiting the Contours of English Studies*.

Goutam Ghosal

3 October, 2012. Delivered a lecture on ‘Rabindrasangeet’ in an UGC National Seminar at Allahabad Degree College, Allahabad.

15 January, 2013. Delivered a lecture entitled ‘Change of Consciousness and Human Unity: An Approach through Sri Aurobindo’ in an International Seminar on “Values and Contemporary Culture: Indian Perspective” held at Department of Philosophy, Visva-Bharati.

Others

15 August, 2012. Awarded *Sri Aurobindo Puroshkar* from Sri Aurobindo Bhavan, Kolkata, for contribution to Sri Aurobindo Studies.

Indrani Das

9 May 2012. “Italian Translation of *Gitanjali*” in a one day State level Seminar on “Foreign Translation of Tagore’s *Geetanjali*”, organized by the Hindi Dept. of Presidency University, Kolkata.

3-5 February 2013. “Nagarjuna and His School” in a three day International Seminar on “Ideology and Genesis of Buddhist Schools”, organized by the Dept. of Indo-Tibetan Studies, VB, Santiniketan in collaboration with ICCR, Kolkata.

1-2 March, 2013, “Reception of *Gitanjali* in Italy” in the National Seminar on “Impact of *Geetanjali* on Indian Literature”, organized by the Dept. of Odia, VB in collaboration with Sahitya Akademi, New Delhi.

23-25 March 2013, “A Brief sketch of Buddhism and Buddhist scholarship in Italy” in a National seminar on “Prospective Scope of Buddhist Studies”, organized by the Centre for the Buddhist Studies, Visva Bharati.

Nilanjana Bhattacharya

May 2, 2012: Attended a seminar on ‘Tagore as an Educationalist’ at Cumberland Lodge, Windsor, England.

August 31, 2012: presented a paper titled ‘Journey to the Ladyland’ at a seminar on ‘Indian Writings in English: A Journey from the Colonial to the Post-Colonial’ held at Hiralal Bhakat College, Nalhati, Birbhum.

January 16-18, 2013: Presented a paper titled ‘Creating Multilingual Spaces: Cultural Encounters in India and Latin America’ at the XI Biennial International Conference of the Comparative Literature Association of India held at Jadavpur University, Kolkata. Also chaired a session on 18th.

February 3, 2013: Presented a paper titled ‘Journey of a Text: *Gitanjali* and Its Afterlife in the Hispanic World’ at a National Seminar on ‘From *Gitanjali* to *Song Offerings*’ organised by the Rabindra Bhavana, Visva-Bharati.

22-24 February, 2013. Presented a paper titled ‘(B)orders in a Globalised World: Re-viewing *Babel*’ in an International Seminar on ‘Prisms of Displacement: Across the Indian and Mexico-US Borders’ at Jadavpur University, Kolkata. Also took part in the panel discussion on ‘Prisms of Displacement: Across the Indian and Mexico-US Borders.’

Others

26 April 2012: Conducted a workshop on ‘Translating Multilingual Texts’ at the University of East Anglia with the students of MA in Literary Translation.

1 May, 2012: Read an excerpt from my translation of *Tagore on the Ravines of San Isidro* at the Norwich Arts Centre Salon, UK.

Compiled the ground-list for Sahitya Akademi Prize for Translation 2012 for books translated into Bangla from any Indian language.

Received Partial Research Grant from Visva-Bharati for 2012-13 to work on “The Reception of Rabindranath Tagore’s Works in Latin America”

Nilanjan Chakrabarti

15-16 March, 2013. Read a paper on ‘Alexis de Tocqueville and his thoughts on the Revolution’ in a seminar entitled “Dickens and the Long Nineteenth Century” organized by the Department of English and OMEL, Visva-Bharati.

23-25 March 2013. Read a paper on ‘Buddhism and Buddhist Studies in France’ in a seminar entitled “Prospective Scope of Buddhist Studies” organized by the Centre of Buddhist Studies, Visva-Bharati.

Saurav Dasthakar

31 August, 2012. National Seminar on “Indian Writings in English: A Journey from the Colonial to the Post-Colonial” organised by the Department of English, Hiralal Bhakat College, Nalhati, Birbhum. Presented paper titled “The epic and the novel: Two Indian novels in English.”

19-21 November, 2012. International conference on “Unveiling a Secret Agreement: Revisiting the Contours of English Studies” organised by the Department of English Literature, The English and Foreign Languages University, Hyderabad. Presented paper titled “On storytelling, ‘historytelling’ and the ‘epic’ form: Notes on Identity in the Postcolonial Context.”

Others

14.07.2012-03.08.2012. Participated in the 8th Refresher Course in Comparative Literature organised by the UGC-Academic Staff College, University of Burdwan.

Soma Mukherjee

16-18th January, 2013. Presented a paper in the XIth CLAI Biennial International Conference titled “The Journey of Comparative Literature: India and Beyond” organized by Department of Comparative Literature, Jadavpur University. Title of the paper: “Reading Indian Literatures: A Comparative Literary Methodology.”

27 February -1 March, 2013. Presented a paper in the International Conference titled “Comparing to what purpose?”

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organized by the Goethe Society of India and Centre of German Studies, JNU Title of the Paper: “ ‘World Literature’ and Method of Comparative Literature: An Analysis.”

26 March, 2013. Delivered 13th Sukhalata Rao memorial lecture organized by School of Women’s Studies, Jadavpur University. Title of the paper: “Adhunik Bhasha-Sahitye Puraṅ-Katha O Nari: Ekti Alochana”

12-13 March 2013. Chaired a session in the 6th Debrupa Bal Memorial Students National Seminar titled *Aesthetics, Poetics in /and Indian Literary Cultures* organized by the Department of Comparative Literature, Jadavpur University.

Somdatta Mandal

4-6 May, 2012. International Tagore Conference “Tagore: The Global Impact of a Writer in the Community” at Edinburgh Napier University, Scotland. Presented paper entitled “Was Tagore a Feminist? Re-evaluating Selected Fiction and their Film Adaptations.” Also chaired a session.

5 September 2012. Delivered special invited lecture on “The Politics of Women’s Writing in India” at Sidhu Kanhu Murmu University, Dumka, Jharkhand.

9-18 October, 2012. Delivered invited lectures at different universities in Poland and Czech Republic.

- a) “Representing Muslim and the Anglo-Indian Minority Culture as the ‘Other’ in Indian Cinema” at Institute of Middle and Far East Studies, Jagiellonian University, Krakow.
- b) “Walking in a Sari and Combat Boots”: Space, Bodies and Affect in South Asian Diasporic Cinema” at an International Conference in Cultural Studies on “Dialogue of Cultures & Culture of Dialogue” at The Andrzej Frycz Modrzewski Krakow University.
- c) “Women’s Empowerment in Contemporary India: Myth and Reality” at Asian Studies Department of Metropolitan University, Prague.
- d) “Contemporary Women’s Retellings of *The Ramayana*” at Department of Gender Studies, Charles University, Prague.

19 December, 2012. International Conference on “Vibrations between Tagore and World Culture and Literature with special reference to China” at Cheena Bhavan, Visva-Bharati. Presented paper “Empathizing with his Oriental Brethren: Tagore’s Early Essays on China.”

14 January, 2013. Chaired a session at International Seminar on “Values and Contemporary Culture: An Indian Perspective” at Department of Philosophy & Comparative Religion, Visva-Bharati.

7-9 February, 2013. IACLALS (Indian Association for Commonwealth Literature and Language Studies) Annual Conference on “The Postcolonial and/in the Indian Languages” at the University of Lucknow. Made presentation “Reassessing Khyas Chunder Dutt and his Utopian Narrative of Colonial Resistance.”

14 February, 2013. National Seminar on “Rabindranath Tagore and Indian Folkloristics” organized by Bhasha Bhavana, Visva-Bharati. Chaired the Academic Session I.

22 February 2013. JUSAS (Jadavpur University Society for American Studies) Seminar on “Transnational Perspectives in American Literature and Art.” Made presentation on “South Asian Diasporic Cinema in the United States.”

16 March 2013. Chaired the Fourth Technical Session at the National Seminar on “Media Ethics” at Centre of Journalism and Mass Communication at Visva-Bharati held on 15 & 16 March 2013.

23-25 March 2013. Presented a paper entitled “Buddhism, the United States and American Literature” at the three-day National Seminar on “Prospective Scope of Buddhist Studies” organized by the Centre for Buddhist Studies, Visva-Bharati, Santiniketan.

Others:

Appointed Head of the Department w.e.f. 02.04.2012.

Served as Visiting Professor at Central University of Rajasthan, Kishengarh for one week from 29.10.2012 to 03.11.2012

Received Partial Research Grant from Visva-Bharati for 2012-13 to work on “Opening up! LGBTQ Issues in Contemporary Indian Cinema.”

Sudev Pratim Basu

1-2 February, 2013: Delivered an audio-presentation titled ““Into the Void”: Science Fiction and Heavy Metal Music” at the *First World Conference on ‘Science Fiction Studies’ in India* organised jointly by the Departments of English, Bharati Vidyapeeth Deemed University, Yashwantrao Mohite College in collaboration with Vigyan Prasar (New Delhi), Marathi Vidnyan Parishad (Mumbai) and Indian Association for Science Fiction Studies at Pune, Maharashtra.

Others

Convenor of the Charles Dickens UGC National Seminar titled “Dickens and the Long Nineteenth Century” held at the departmental premises on 15th and 16th March 2013.

Sukla Basu (Sen)

2 July 2012. JUSAS Workshop on Translating American Poetry, held at Jadavpur University. Translated two poems, one by Sonia Sanchez and the other by June Jordan.

8-10 February 2013. MELUS-MELOW International Seminar held at Panjab University, Chandigarh. Delivered a Lecture on “Reappropriating the *Mahabharata*: Saoli Mitra as Bard and Actor” on 10.02.13. Chaired one academic session on 09.02.13.

18 February 2013. JUSAS Seminar on “Transnationalism”, held at Jadavpur University. Delivered a lecture on “Transformation of the European legacy in O’Neill’s play themes and stage techniques.”

15-16 March 2013. Participated in the DEOMEL Seminar on “Dickens and the Long Nineteenth Century” and chaired two academic sessions.

Swati Ganguly

4-6 October 2012. International Seminar ‘Women in Shakespeare: A Post-feminist Scrutiny’ organized jointly by The Shakespearean Association (India) and Vardhaman Mahavir Open University, Kota, and held in Kota. Title of the paper, ‘Locating and Dis-locating William’s Women: Historicizing Feminist Shakespearean Studies.’

26-27 November 2012. National Seminar, ‘Survival of Indian Languages in the Face of Various Challenges’, organized by the Sahitya Akademi, in the Conference Hall, Hotel BNR Chanakya, Ranchi. Title of paper ‘Musings of a bi-lingual Bengali.’

14- 15 January, 2013. International Conference, ‘Tagore and His Global Vision: Forging Bonds with the World’ organized by the Department of History, Visva-Bharati under the auspices of the ICSSR, ICHR and Visva-Bharati. Title of paper ‘Beyond Nationalist Frames: Tagore’s English Writings.’

22-24 February, 2013. International seminar ‘Feminist Inscriptions in Social Theory’ organized by the Centre for Studies in Social Sciences, Patuli, Kolkata under the auspices of the ICPR. Title of paper ‘Reading rape narratives: Intertextuality in patriarchal Scripts and feminist ‘inscriptions.’

7-9 March 2013. International Seminar ‘Revisiting Shakespeare in Indian Literature and Culture’ organized jointly by the Shakespeare Society of India and Indraprastha College for Women, University of Delhi. Title of the paper “Fashioning the Feminine: Bankim’s Shakespeare and the case of Kapalkundala.”

14-15 March, 2013. International Conference on “A Man of Letters: Rabindranath Tagore and his Epistles” organized by Rabindra Bhavana, Visva-Bharati. Title of the paper “The Autumn of the Poet: Rabindranath’s letters to Hemantabala.”

21-22 March 2013. International Conference on “Global Diaspora Studies: Contexts and Configurations” organized by UGC Area Study Centre for Canadian Studies, Institute of English, University of Kerala in association with World Association of Global Diaspora Studies and State University of New York, Binghamton. Title of the paper “Westward ho!: The Diasporic Academia and India Postcolonial Studies.”

Tanuka Das

28-30 May, 2012. Joint conference of 11th International Congress of Social Philosophy (ICSP) & 4th International Congress of Yoga & Spiritual Science (ICYS) organized by the Department of Mass Communication & Journalism, Karnatak University, Dharwad. Paper presented entitled “The ‘Spiritual’ Yeats in the Byzantium poems.”

8-10 February, 2013. 12th International MELOW Conference organized by Melus-India/Melow, Panjab University,

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Chandigarh. Paper presented, “Glimpses of Postmodernism: A Study of *Tristram Shandy* as an Innovative Act of Story-Telling.”

15-16 March, 2013. Chaired a session of students’ papers at the National Seminar on “Dickens and the Long Nineteenth Century” organized by the Department of English and Other Modern European Languages, Bhasha- Bhavana, Visva-Bharati.

Tapu Biswas

18 August, 2012, “ Status and challenges of SC / ST Students in Higher Education in West Bengal” in two days National Seminar on Philosophy of Babasaheb Ambedkar organized by Welfare Association of LICCI’s SC, ST and Buddhist employees Association in Bharat Sava Hall, Kolkata.

5 December 2012, “Shakespeare and Bengal: Some Adaptation and Translation” in three days International World Shakespeare Conference on Shakespeare Across the Culture organized by the English Dept. of Banaras Hindu University and Shakespeare Society of Eastern India. Also co-convener of the Seminar.

8 December 2012. Presented paper on “Some Basic ideas and dimension of Elizabethan Theatre” in two-day International conference at Nistarani College Purulia, West Bengal.

30 March 2013. Presented paper on “Issues and challenges of translating Bratya Basu’s *Hemlat,, The Prince of Garanhata* in a one day national seminar organized by Shakespeare Society of Eastern India at Jibanananda Sabhaghar, Kolkata.

Ongoing Research Projects in the Department:

- i. Name of Teacher : **Amrit Sen**
Name of Project : Major Research Project on “Rabindranath Tagore and Science”
Sponsoring Agency : University Grants Commission
Amount Sanctioned : Rs. 9.33 lakhs
- ii. Name of Teacher : **Tapu Biswas**
Name of Project : (a) Minor Research Project on “Badal Sircar and the Third Theatre”
Sponsoring Agency : University Grants Commission
Amount Sanctioned : Rs. 1, 50,000.00
(b) Partial Research Grant on “Shakespeare in Bengali Translation” sponsored by Visva-Bharati for Rs. 2370.00

Academic Distinctions

Fourth year of UGC DRS (SAP) Project on “Tagore: East-West Confluence”

Publications

Amrit Sen

Books

Gitanjali: A Centenary Edition Eds. Tapati Mukhopadhyay and Amrit Sen. Kolkata: Rabindra Bhavana Visva-Bharati. 2012-13.

Articles

“A Tribute to Sunil Gangopadhyay”, *Muse India* Issue 48, March-April 2013. ISSN 09751815. <http://www.museindia.com/regularcontent.asp?issid=46&id=3788>

“Never so wholly Stirr’s my Mind”: Rabindranath and *Russiar Chithi*”, in *Rabindranth Revisited: Essays on Tagore*. Kolkata: Levant Books, 2012: 74-90.

“Rabindranath, Travel and Tirtha”, in *Tagore: At Home in the World* eds. Sanjukta Dasgupta and Chinmoy Guha. New Delhi: Sage Publications, 2012: 75-96.

“Our Bond with the World: Nature in Poetry of Rabindranath Tagore” in *Indian Poetry in English: Critical Essays*. Ed.

Zinia Mitra. New Delhi: PHI Learning Private Ltd, 2012: 92-102. ISBN-978-81-203-4571-3

“Under His Gaze: Rabindranath’s Rammohun” in *Evolving Bengali Identity at Home and in the World*. Ed. Joya Ghosh. Kolkata: Books Way. 2012. ISBN: 978-93-81672-49-5

“Visve Kabi: Rabindranath’s Travel Writings and the Question of Positionality”, in *Homage to Tagore*. Ed. Banibrata Goswami. Kalyani: Council for MS Academic, 2012. ISBN 9788192169712

Ananya Dutta Gupta

Academic Article

‘The Renaissance Revisited: Reading Rushdie’s *Enchantress of Florence*’ in *Critical Imprints*, Volume I, Inaugural Issue of the Journal of the Department of English, Loreto College, Kolkata, 2012.

Debarati Bandyopadhyay

“Ethics in *The Penelopiad*” *Inhabited by Stories: Critical Essays on Tales Retold* ed. Nancy A. Barta-Smith and Danette DiMarco. Newcastle upon Tyne: Cambridge Scholars, 2012. Pp. 174-193. ISBN(13): 978-1-4438-4153-5.

Goutam Ghosal

“Various Levels of Meaning in *All’s Well That Ends Well: An Integral Approach*” in *Theatre International*, Shakespeare Special Number, Vol.V. Eds. Tapu Biswas, Amitava Roy, Subir Dhar. Kolkata: Avantgarde Press, 2012. ISSN No: 2278-2036.

Indrani Das

Two English poems of Niranjana Mohanty translated into Bengali in *Bharatiya Engreji Kobita*. Eds. Somdatta Mandal & Soma Mukhopadhyay, Kolkat: Abhijan Publishers: 2013. ISBN: 978-93-80197-07-4

Nilanjana Bhattacharya

“Rabindranath’s ‘Visvasahitya’ and Comparative Literary Studies” in Imtiaz Ahmed, Muchkund Dubey and Veena Sikri eds. *Contemporarising Tagore and the World*. Dhaka: University Press Ltd., 2013. ISBN 978 984 506 118 6.

Romit Roy

“Shopping Malls and Social Networking Sites. Interiority, Visual Culture and the Transformation of the Public Sphere” in Julia Affi, S. Mazumdar, R. Rajan and C. Ulrich (Eds.), *German Studies in India*. Beiträge aus der Germanistik in Indien. Vol. 3/2012. Munich and New Delhi, 2012 (German Academic Exchange Service DAAD-Delhi, Iudicium Verlag, Munich) :199-212 ISBN978-3-86205-077-2/ISSN:1867-2817

“Rabindranath Tagore als moderner Komponist” in *World Literature and Translation as Cultural Praxis*. Goethe Society of India, Yearbook 2012. New Delhi, 2013 (MosaicBooks), 15-33 ISBN 978-81-907140-4-4

“Enlightenment and Tolerance” in *Lalit Kala Contemporary*, Vol. 54. Ed. Amit Mukhopadhyay. New Delhi: Lalit Kala Akademi, 2013: 10-19

“Milarepa”; “To Name a Sea”. Translation of two poems by Ranajit Hoskote from English into Bengali. In: Somdatta Mandal and Soma Mukhopadhyay (eds.), *Bharatiya Engraji Kobita. A Collection of Indian English Poetry*. Kolkata: Abhijan Publishers, 2103: 149-50. ISBN: 978-93-80197-07-4

Saurav Dasthakur

Articles

“Violence in the Schoolboy Stories of Sukumar Ray” in Sunita Sinha (ed.) *Canons of Children’s Literature* (New Delhi: Atlantic, 2012), Vol. 1 (ISBN 978-81-269-1758-7): 127-45

“‘Nonsense’ as sense: Comic vision in two plays of Sukumar Ray” in *Ravenshaw Journal of Literary and Cultural Studies* (Cuttack : Department of English, Ravenshaw University, July 2012), Vol. II, Number 1 (ISSN: EISSN: 2231-2773): 103-117

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“Narrative, Memory, History: ‘National Allegory’ in Two Historical Novels” in Pradip Basu *et al* (eds.) *Journal of Humanities and Social Sciences* (Kolkata: Scottish Church College, August 2012), No. 9 (ISSN 0973-8738): 104-16
Translation of four poems of Harindranath Chattopadhyay, Dom Moraes and Manmohan Ghosh in Somdatta Mandal and Soma Mukhopadhyay (eds.), *Bharatiya Engraji Kobita*, Kolkata: Abhijan Publishers, 2013. ISBN : 978-93-80197-07-4

Soma Mukherjee

Translated poems of Jayanta Mahapatra, Dilip Chitre and Meena Kandasamy in *Bharatiya Engraji Kobita*, Somdatta Mandal and Soma Mukhopadhyay (eds.) Kolkata: Abhijan Publishers, 2013. ISBN : 978-93-80197-07-4.

Somdatta Mandal

Books

Bharatiya Engraji Kobita (Indian English Poetry in Bangla). Eds. Somdatta Mandal and Soma Mukhopadhyay. Kolkata: Abhijan Publishers, February 2013. ISBN: 978-93-80197-07-4

Articles:

“Film and Fiction after 9/11: A Critical Assessment” in *Violence and Its Representations* Eds. Uday Chand Das & Himadri Lahiri. Burdwan, Academic Staff College, The University of Burdwan. August 2012: 40-55. ISBN: 978-93-80663-64-7
“The Literature or the Passport? Evaluating Diasporic Indian English Literature” in *Indian Fiction Since Independence: Readings From the Periphery*. Ed. Prashanta Chakraborty. New Delhi: Prestige Books, 2013. ISBN 978-93-82186-17-5
“Re-presenting Folk Theatre: The Jatra of Bengal” in ARTLAND (April-June 2012 Issue) published by India International Rural Cultural Centre, New Delhi.

C: Reviews

Deep Focus: Reflections on Cinema by Satyajit Ray in *8th Day: The Sunday Statesman*, 6 May 2012.

Sudev Pratim Basu

“Fractures, Heterotologies and the In-between Spaces of Malgudi(s)”, in Sarbani Putatunda (ed.), *R.K. Narayan – Critical Essays*, New Delhi: Prentice Hall, 2012, pp. 114 – 127.

“Sherlock Holmes, Xenophobia and Factual Fractures: A (Mis?) Reading”, in Uday Chand Das & Himadri Lahiri, eds. *Violence and Its Representations*. Burdwan: Academic Staff College, The University of Burdwan, 2013: 56 – 62.

Sukla Basu (Sen)

“Reading and Writing Reality: *A Mighty Heart* and *Schindler’s List* as Faction” in MELUS-MELOW Journal (ISSN: 2249-1839), Volume 2, August 2012.

Translated poems by M. M. Dutt, Nissim Ezekiel and others in *Bharatiya Engraji Kabita*, Eds. Somdatta Mandal & Soma Mukhopadhyay. Kolkata: Abhijan Publishers, 2013.

ISBN-978-93-80197-07-4

“The Problem of Identity and Existence in Tendulkar’s *A Friend’s Story*”, jointly with Shukla Chatterjee, *Indian Drama in English*, ed. by Abha Shukla Kaushik. ISBN-978-81-269-1772-3, U.P.: Atlantic, 2013.

Translated poems by Langston Hughes, June Jordan and others in *Birutjatio*’s “Krishna Katha” (Black Narratives), ed. by Parantap Chakraborty, Santiniketan, 2012. <http://www.birutjatio.org/krishna-katha.html> and www.junejordan.com.

Swati Ganguly

‘The Illustration of *Red Oleanders*: Rabindranath, modernism and visual culture’ *Visva-Bharati Quarterly*, New Series Vol.9 No.3 &4, Vol.20 No.1 & 2 October 2010-September 2011 (published April 2012): 67-78

Post-edit articles in *Ekdin* (Bengali Newspaper)

Tanuka Das

Book:

The Voice of the English Auden. New Delhi: Sarup & Sons, 2012. ISBN- 978 -81-7625-834-0.

Articles:

“Legitimization of Oneself by a *Harami*: a Study of Mariam in Khaled Hosseini’s novel *A Thousand Splendid Suns*” in *Labyrinth, the Quarterly Literary Journal of Postmodernism*. (April 2012):20-25. ISSN 0976-0814.

“Setting Linguistic Patterns from the Periphery: A Study of Saadat Hasan Manto’s Three Stories” in *The Atlantic Critical Review*. 11.2 (April-June 2012):33-45. ISSN 0972-6373.

“Devising her Own Language for her Feminine Experience: a Study of Sylvia Plath’s Four Poems”, in *WRITING RESISTANCE: Beads of Thoughts on Women*. Jaipur: Mark Publishers, 2012:169-79. ISBN 978-93-82159-07-0

Tapu Biswas

“Cynical British Attitudes and Positive Indian Attitudes: The two crucial Years 1864 and 1964” in *The Theatre International East West Perspective*, Vol. V (Shakespeare Special Number) Eds. Tapu Biswas, Amitava Roy & Subir Dhar, Kolkata: Avantgarde Press, 2012.

Co- Editor and Translator of *Bratya Basu’s Hemlat*, The Prince of Garanhata (Edited & Trancreated into English from the original Bengali with Annotations, Commentary & Introductory Essays), Kolkata: Avantgarde Press, 2012.

A brief history on the development of the Bhavana/Sadana/Vibhaga

The DEOMEL (Department of English and Other Modern European Languages) has two profiles. On the one hand, it is a department of English literature offering regular degrees (BA Hons, MA, MPhil & PhD) in English. Over the past decade, the content of these courses have evolved from the traditional “literary” approach to a multidisciplinary one, involving studies in Postcolonial literatures and theories, culture studies, translation studies, gender studies, film and theatre studies, comparative studies of European literature and so on. The Indian literary and cultural ambience is substantially emphasised to alert the students of their positron as learners of English in the Indian context. The other profile of DEOMEL comprises the four modern European languages, namely French, German, Italian and Russian. These language units offer language courses of the level of Certificate of Proficiency, Diploma and Advanced Diploma. At the same time, faculty members of these language units deliver lectures on issues relating to their respective fields of specialisation as part of the MA courses in English.

Any other relevant information

Several Visiting scholars have taught and delivered special lectures in the department during the year. They are:

1. Professor Barry Hill, University of Melbourne, Australia.
2. Professor Dipesh Chakraborty, Department of South Asian Studies, University of Chicago, USA
3. Georg Wink, Assistant Professor in Latin American Studies, Freie University, Berlin.

DEPARTMENT OF HINDI

The study of Hindi language and literature became an important and integral part of Vidya-Bhavana, the centre of higher learning in Visva-Bharati in 1938. The Programme of Hindi Studies was drawn up under the able guidance of Pt. Hazari Prasad Dwivedi. The foundation of Hindi Bhavana was laid by C.F. Andrews and Kshitimohan Sen and the tireless endeavor of Banarasidas Chaturvedi on 31st January, 1939 in the presence of Gurudeva Rabindranath Tagore. The study of medieval Hindi literature and saint - literature were of great interest to poet Rabindranath Tagore. Kshitimohan Sen, himself a veteran scholar of the saint lore lent his active effort to this end. At present this Department of Learning is carrying on research on medieval and modern literature, comparative literature and Rabindra literature in Hindi translation, besides under Graduate and post Graduate studies in Hindi Literature and Functional Hindi as well.

Departmental Seminar

- (i) 'Tulasi Jayanti' was celebrated in the department on 23rd August 2012.
- (ii) 'Hindi Diwas' celebration was held in the department on 30th September 2012 with the joint collaboration of Hindi Cell, V.B.
- (iii) Prof. Ranganath Pathak, B.H.U. delivered a lecture on the topic-'Historical background of western criticism on 6th September 2012.

Memorial Lectures

Pt. Hazari Prasad Dwivedi Memorial Lecture 2012-13

This year's lecture was organized on 15th February 2013. Famous Hindi Novelist Govind Mishra delivered the lecture on the topic 'Novels of Hazari Prasad Dwivedi'.

Conference / Seminar / Workshop / Exhibition etc.

Harish Chandra Mishra

1. Chaired a session and presented a paper on 'Bhavani Prasad Mishra Ki Rachana-Prakriya in a national seminar held on 23rd February 2013 organised by Michel Madhu Sudan Memorial College, Durgapur.
2. Chaired a session and delivered presidential address in a national seminar on 'Ravindranath' organized by Allahabad Degree College (Girls) on 2nd October 2012.
3. Chaired a session and delivered Presidential address in a national seminar organized jointly by Jaipur University and Dadudayal Sansthan on 'Medieval Saint literature and Dadu Cult' on 7th October 2012.
4. Presented a paper 'Inter-relation of folk literature with classical literature' in an International Seminar jointly organized by 'Vidya Shree Trust' and Baragaon P.G. College on the topic 'Folk and Classics: relation and combination' on 14-15 January, 2013.

Rameshwar Prasad Mishra

1. Delivered presidential address at Acharya Vishnu kant Shastri memorial lecture on the topic 'Santon Ki Jeevandristi Aur Hamara Samaya' at Shree Bara Bazar Kumar Sabha Pustakalaya, Kolkata on 6 May, 2012.
2. Chaired a session and delivered a lecture in an International Seminar on 'Rabindranath Tagore' in the dept. of History, V.B. on 14 January 2013.
3. Delivered a lecture on 'Geetanjali Aur Hindi Sahitya' in a national seminar on 'Impact of Geetanjali on Indian literature' in the dept. of Odia, V.B. on 1 March 2013.
4. Chaired a session and delivered a lecture in a national seminar on 'Impact of Rabindranath on Indian literature' organized by Bhasha-Bhavana, V.B. on 8 March 2013.
5. Delivered keynote address on the topic 'Hindi Evam Bangla Ka Antah Sambandh' at 65th Congress of Hindi Sahitya Sammelan, Prayag organized at Santiniketan on 17 March 2013.

Manju Rani Singh

1. Attended a seminar and presented a paper on the topic 'Indian Cultural Heritage' organized by National Atlas Thematic Mapping Organisation (NATMO), Kolkata on 20th March 2013.
2. Attended national seminar organized by Seema Suraksha Bal (IPBP), Dehradun and presented a paper on 'Kavya' Sangeet Evam Gopal Singh 'Nepali' on 9th June, 2012.

Chakradhar Tripathi

1. Attended a UGC sponsored national seminar and delivered keynote address on the topic 'Adhunik Hindi Sahitya Ki Vividh Vidhayen' organized by Kendrapara College, Cuttack, Odisha on 26th March, 2013.

Mukteshwar Nath Tiwari

1. Read out a paper in the national seminar organized by the dept. of Hindi, Burdwan University on 13th March, 2013 on the topic 'Premchand Aur Ramvilas Sharma'. Also chaired a session on the same day.
2. Delivered lecture on the topic 'Bharatiya Sahitya Aur Dalit Sahitya' on 26th March, 2013 at a national seminar organized by the dept. of Hindi, Calcutta University.

Ravindra Nath Mishra

1. Attended a UGC sponsored national seminar and presented a paper on the topic 'Adhunik Hindi Sahitya Ki Vividh Vidhayein' organized by the Department of Hindi, Kendrapara College, Cuttack, Odisha on 26th March, 2013.

Shailendra Kumar Tripathi

1. Delivered a lecture in a national seminar on 'Bhavani Prasad Mishra birth centenary' organized by M.M.D.M. College, Durgapur on 23rd February, 2013.

Subhash Chandra Roy

1. Attended and delivered a lecture on the topic 'Village Reconstruction Project of Rabindranath' in a national seminar jointly organized by Ministry of Culture, Govt. of India, Raja Rommohan Rai Foundation and Kirti Institution, Deoghar on 5th August, 2012.
2. Attended and delivered a lecture on the topic 'the personality and achievement of Rabindranath in a national seminar organized by Bhasha Sangam, Allahabad at Prayag Science Council, Allahabad on 26th August, 2012.
3. Attended and delivered a lecture in a national seminar on the topic 'Madan Mohan Malviya personality and achievement' organized by 'Mahavidya' Deoghar on the occasion of a Book Fair from 16th - 21st January, 2013.
4. Delivered a lecture in a national seminar on the topic 'the existence and dimension of present education' organized by Raniganj Marwari Sanatan Vidyalaya, Raniganj on 15th February, 2013.

Jagadish Bhagat

1. Delivered a lecture on the topic 'Premchand Ki Gramin Chinta Aur Hamara Samaj' in a national seminar M.M.D.M. College, Durgapur on 18th August, 2012.
2. Delivered a lecture on the topic 'Premchand Ki Prasangikata' in a national seminar organized by Akhil Bhartiya Sanskritik Parishad, Durgapur on 21st August 2012.
3. Delivered a lecture on the topic 'Tulsidas Aur Hamara Samaj' organized by Akhil Bhartiya Sanskritik Parishad, Durgapur on 29th August, 2012.
4. Delivered a lecture on the topic 'Ramcharit Manas Me Chitrit Samaj' in a national seminar organized by Pt. V.T. Shikshan Sansthan, Barhaj, Deoria, U.P. on 14-17th October, 2012.
5. Delivered a lecture on the topic 'Dr. Rajendra Prasad Ki Rashtra Chinta' in a national seminar organized by A.B.S. Parishad, Durgapur on 4th November, 2012.
6. Delivered a lecture on the topic 'Bhawani Prasad Misra Ki Kavita Ka Vachan' in a national seminar organized by M.M.D.M. College, Durgapur on 8th February, 2013.
7. Delivered a lecture on the topic 'Lok-Culture Aur Ravindra Nath Thakur' in a national seminar organized by Visva-Bharati, Santiniketan on 14-16th February, 2013.

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Arjun Kumar

1. Delivered a lecture on the topic 'Ramvilas Sharma Ka Alochana Sansar' in an International Seminar organized by Presidency University, Kolkata on 14-15 February, 2013.
2. Presented a paper on the topic 'the influence of Rabindranath Tagore on Hindi Literature', in a national seminar organized by Assamese, Marathi and Tamil Language units of Bhasha-Bhavana on 7-8 March, 2013.
3. Presented a paper on the topic 'Santali Culture' in a national seminar organized by the dept. of Santali, V.B. on 12 March, 2013.
4. Presented a paper on the topic 'the tragedy of slumlife and Hindi Fiction' in a national seminar on 'Slum life and the fiction of Hindi, organized by Karim College, Jamshedpur on 20-21 March, 2013.

Publications / Articles

Harish Chandra Mishra

Article

- (i) Article 'Banal Aur Patrakarita' compiled in the book 'Drishya Madhyam Ka Vishleshan - Janasanchar Madhyam - Patrakarita Pariprekshya Evam Sambhavanayein, Editor - Dr. Rajkumar Singh, Durga Narayan P.G. College, Fatehgarh, Farrukhavad, U.P., ISBN: 97881-89457-60-0.

Mukteshwar Nath Tiwari

- (i) Editorials (3) in 'Visva-Bharati Patrika (Hindi)' in the volumes - 53, 54 and 55 published during the year 2012-13.

Shailendra Kumar Tripathi

- (i) Article 'Janakavi Isuri' published in Isuri-19, Sagar, M.P., ISSN No.- 0976-5778, 2012.
- (ii) Article 'Lok Tattwa Ka Sandarbh' published in Marai, Bilaspur, Chhatirgarh, ISSN No. 2278-8352, 2012.
- (iii) Article 'Prasangikata Ka Prashna' published in Sablog, Delhi, ISSN No. 2277-5897, February 2013.
- (iv) Article 'Char Kavitayein' published in Vasudha, Jabalpur, M.P., ISSN No. 2231-0460, December 2012.

Jagadish Bhagat

- (i) Article 'Nepali Ram Kavya Parampara Aur Bhavubhakta Ramayan' published in the book 'Tulasi Aur Bhavubhakta : Samajik Aur Sanskritik Paridrishya; Editor - Dr. S.P. Tiwari; Bijaya Publishing House, Kolkata-700006, ISBN No.- 81-87964-15-4, July 2012.

DEPARTMENT OF SANSKRIT, PALI & PRAKRIT

Lalita Chakraborty :

A. Published Paper

1. A paper entitled "Cetana hi kamma- A Universal Message of Buddhism", published in "Anviksa" Research Journal of the Deptt. of Sanskrit, Jadavpur University, Kolkata, 2012.
2. Importance of dana as depicted in Manusamhita-Shodha Samiksha, Rathaseva Pratistan, Keonjhar, Orissa, 2012, Vol.-II, ISSN-2249-5045.

Arun Kumar Mondal

1. Delivered four special lectures on i) Pratyahara Sutra and Sanskrit Grammar, ii) Jati in Sanskrit Grammar, iii) Sabdasakti in Sanskrit poetics and iv) Rasa and dhvani in Sanskrit poetics; at Gour Banga University, Malda during 21st to 24th August, 2012.
2. Delivered an Introductory lecture in the National Seminar on 'Gnomic and Didactic Literature in Sanskrit', organized by the Department of Sanskrit, Pali & Prakrit, Visva-Bharati on 8th March, 2013 and presided over the Valedictory session of the said seminar on 9th March, 2013.

Mridula Ray

1. Delivered a lecture on 'Gitanjali and Sanskrit Literature" in the National Seminar, organized by the Deptt. of Odia, Visva-Bharati on 1st March, 2013.
2. Delivered a lecture on "Bhismopadesa-buddhopadesayoh bhavasamyam" in the National Seminar, organized by the Department of Sanskrit, Pali & Prakrit, Visva-Bharati on 9th March, 2013.

Nirod Baran Mandal

1. Attended a National Conference on Navya-Nyaya, organized by the University of Calcutta, Deptt. of Sanskrit and presented a paper entitled - Nyayamatena Sabdaprama'am Sabdadobdhaprakarasca" - during 16th to 17th January 2013.
2. Attended and Acted as Chair Person in a session of the Seminar on 'gnomic and didactic literature in Sanskrit, organized by the Department of Sanskrit, Pali & Prakrit, Visva-Bharati during 8th to 9th March, 2013.
3. Acted as Chair person in a session of the three day National Seminar on prospective Scope of Buddhist Studies organized by the Centre for Buddhist Studies Visva-Bharati during 23rd to 25th March, 2013.

Jagat Ram Bhattacharya

1. Delivered a course of lectures on Introduction to Research Methodology, Library based Research and Some Practical aspects of Research in the Refresher Course on Research Methodology held at Guru Ghasidas University, Bilaspur, Chattisgarsh on 21-22 March, 2013.

Delivered Lecture

1. On Sanskrit versus Prakrit in the Department of Sanskrit, Himachal Pradesh University, Shimla on 26.4.2013.
2. On Carrer Prospective in Noñviolence, Peace and Gandhian studies in Jain Vishva Bharati University, Ladnum, Rajasthan on 27.07.2012.

Research projects

1. Editing of the Prasnavya-karana–A lost Jaina treatise, a major Research Project sponsored by the Indian Council of Philosophical Research (ICPR). Project completed and submitted in December, 2012.

Research Article published

1. Transgression of Vows, Jinavānī, ISSN 2249-2011, Vol. III, 2012, pp.45-56.
2. An Amalysis of the First Chapter - Vargaracanā of the Original Prasnavyākarana based on the Commentary of Jīvabhogin, Tulsī- Prajna-, A Peer Reviewed Research Quarterly, ISSN 0974-8875, Vol. 153,2012

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Aruna Ranjan Mishra

Research Papers Published

1. "Svapna-dutam of Pt. Prabodh Kumar Mishra: A Brief Note", published in Lokaprajna (ISSN-2229-5364), Ed. Sadananda Dikshita, Sarasvati Vihar, Bhadrak, Odisha, Vol.XVI, 2012, pp.11-17.
2. "Elements of Instrumental Music in the Prelude to Bharata's Drama", paper published in the Sangeet Galaxy (www.sangeetgalaxy.co.in), a referred Quarterly E-Journal dedicated to Indian Music, ISSN: 2319-9695, Ed. Amit Kumar Berma, Vol. II (Jan. 2013).

Talks delivered in the Academic Gatherings:

1. Talked on 'Dramatic Art of Bharata and Horace' in the Special Summer School (3rd to 23rd July, 2012) organized by the Academic Staff College, University of Calcutta, Kolkata, on the 18th July, 2012 (fore-noon).
2. Talked on 'Concept of Beauty in Sanskrit Poetry and Poetics in the aforesaid Summer School on the 18th July 2012 (after-noon).
3. Talked on the 'Contribution of Odisha to Modern Sanskrit Literature' as the Chief Speaker in the Inaugural Session of the National Seminar on 'Modern Sanskrit Poetry of Odisha' organized by the P.G. Department of Sanskrit, Utkal University, Bhubaneswar on 15-16 March, 2013.

Conferences/Seminars Attended :

1. "Indus Sacrificial Altar: An Archaeological Analysis" paper presented at the 46th session of All India Oriental Conference (1-3 Oct., 2012) at the University of Kashmir, Srinagar.
2. "Poetic Sensibility of Bhubaneswar Karasarma-A Bried Note", paper presented at the National Sanskrit Conference at the Sadashiva Campus (Puri, Odisha) of Rashtriya Sanskrit Santhan, New Delhi on 1-3, December, 2012.
3. "The Poet-in Eastern and Western Traditions", paper presented at the National Seminar on 'Global Aesthetics and Alankara Sastras' organized by Sahitya Akademi, New Delhi at Rashtriya Sanskrit Vidyapeeth, Tirupati, on 26-27 December, 2012.
4. "Candrad?tam: A Brief Note", paper presented at the National Seminar on 'Modern Sanskrit Poetry of Odisha' organized by the P.G. Deptt. Sanskrit, Utkal University, Bhubaneswar, on 15-16 March 2013.

Niranjan Jena

A. Presented papers in the National & International Seminars and Conferences:

1. Presented a paper entitled on "Socio Medico Charms in the Atharvavedic Tradition : Its Relevance in the Contemporary Society" in the International Research Conference on Humanities and Social Sciences, University of Sri Jayewardenepur, Sri Lanka, during 8th to 9th November, 2012.
2. Presented a paper entitled on "Mahabhutas in the Rgveda : An Environmental Approach" in the 46th session of all India oriental Conference (AIOC) organized by the Department of Sanskrit, University of Kashmir, From 1st -3rd October 2012.
3. Presented a paper entitled on "Gnomic and Didactic contexts in the Atharvaveda" in the national seminar on "The Gnomic and Didactic Literature in Sanskrit" organized by Department of Sanskrit, Pali and Prakrit, at Simha Sadana, Santiniketan on 8th and 9th February 2013.
4. Presented a paper entitled on " Ecological Awareness Reflected in the Buddhism" in the National Seminar on 'Prospective Scope in the Buddhist Studies, organized by Department of Indo-Tibetan Studies, from 23rd to 25th March 2013.
5. Presented a paper entitled on "Impact of Sri Chaitanya on ISKCON Movement and Indian Culture" in the National Seminar on 'Sri Chaitanya and Indian Culture' organized by the Deptt. of Philosophy and Comparative Religion, Visva Bharati, during 30th-31st March 2013.

C. Published Paper :

1. Published a paper "The Grammatical Importance of the 1st Sukta (Agni) in the Rgveda I.1)", "Sumedha", A Research Journal, Department of Sanskrit, Pali, & Prakrit, Visva Bharati, Santiniketan, 2012.

2. Published a paper "Teaching of Sri mad Bhagavadgita", "Vyasashree", Facilitation Volume of Dr. G.K. Das, Utkal University, Bhubaneswar, 2012.
3. Published a paper "Ecological Awareness in the Sri mad Bhagavatam", the Departmental Journal, Department of Sanskrit, Gauhati University, Assam, 2012.

Harekrushna Mishra

1. Participated in the national seminar on "Rabindranath Tagore and Indian Folkloristics" organized by Bhasha Bhavana, Visva-Bharati in Colaboration with ICSSR, New Delhi and CIIL Mysore, at Lipika Auditorium, Santiniketan on 14th-16th February 2013.
2. Participated in the national seminar on "The Gnostic and Didactic Literature in Sanskrit" organized by Department of Sanskrit, Pali and Prakrit, at Simha Sadana, Santiniketan on 8th and 9th March 2013.
3. Presented a paper entitled Wealth Management in the Puranas in the Epics and the purana section at 46th session of all India oriental Conference (AIOC) organized by the Department of Sanskrit, University of Kashmir, from 1st -3rd October 2012.
4. Presented a paper on "Life Management" in a National Seminar organized by Arsha Vidya Kendra, Bhubaneswar.

Sanjay Kumar Mandal

1. Participated in the Refresher Course in Comparative Literature, UGC-Academic Staff College, The University of Burdwan, Burdwan, from 14th July to 3rd August 2012.
2. Presented a paper entitled "Srimadbhagavate avataratatvam" in the Epics and purana section at 46th session of all India oriental Conference (AIOC) organized by the Department of Sanskrit, University of Kashmir, From 1st -3rd October 2012.
3. Presented a paper entitled "Kiratarjuniye nititvatm", in the National Seminar, Dept. of Sanskrit, Pali & Prakrit Visva-Bharati, Santiniketan on 8th-9th March 2013.

Publication :

Published a paper "Self Control in Gita", 'Vyasasri', Facilitation Volume of Dr. G.K. Das, Utkal University, Bhubaneswar, 2012.

Gargi Bhattacharya

Participation in Conferences/Seminars and paper presentation :

1. Participated the joint International Conference '11th International Congress of Social Philosophy (ICPR) and 4th International Congress of Yoga and Spiritual Science (ICYS)' organized by the Department of Mass Communication and Journalism, Karnataka University, Dharwad, Karnataka from 28th to 30th May 2012 and presented a paper on 'Meditation in Minor Upanishads: Yoga theory, Spiritualism and Modern Perspective'.
2. Participated in the 'Second World Veda Conference', organized by Maharshi Sandipani Rashtriya Veda Vidya Pratishthan, Ujjain, M.P., from 4th to 7th November 2012 and presented a paper entitled 'Brahmavidya in Atharvaveda-Samhita with Special Reference to Brahmaprakasana Sukta' and also acted as Convener in the 'Vedas: Philosophy' Section.
3. Participated in the National Seminar on "Gnostic and Didactic Literature in Sanskrit" organized by Department of Sanskrit, Pali and Prakrit, Visva Bharati from 8th and 9th March 2013, and presented a paper there on "Moral Teachings in Thoughts and Theories of Adaita Vedanta: A Social Perspective".

Invited Lecture :

Delivered lectures on 'Critical Editions of Sanskrit Manuscripts' in the Workshop organized under the UGC Scheme "University Potential for Excellence" Phase II, Jadavpur University on 04.02.2013 at the Deptt. of Sanskrit, Jadavpur University.

Publications :

An article entitled 'meditation in Minor Upanishads: Yoga theory, Spiritualism and Modern Perspective' in the book 'Satyam Shivam Sundaram' (Prof. Dr. Basavaraj P. Siddhasharma's Felicitation Volume, ISBN : 978-81-924572-0-8), published by Siddhaprakashana, Dharwad, Karnataka in May 2012.

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Laxmidhar Malik

Seminar/ Conference-

1. Participated in the national seminar on "From Gitanjali To Song Offerings" organized by Rabindra Bhavana, at Lipika Auditorium, Santiniketan on 3rd February 2013.
2. Participated in the national seminar on "Rabindranath Tagore and Indian Folkloristics" organized by Bhasha Bhavana, Visva-Bharati in Colaboration with ICSSR, New Delhi, and CIIL Mysore, at Lipika Auditorium, Santiniketan on 14th-16th February 2013.
3. Participated in the national seminar on "The Gnostic and Didactic Literature in Sanskrit" organized by Department of Sanskrit, Pali and Prakrit, at Simha Sadana, Santiniketan on 8th and 9th March 2013.
4. Presented a paper entitled "Wealth Management in the Puranas" in the Epics and the purana section at 46th session of all India oriental Conference (AIOC) organized by the Department of Sanskrit, University of Kashmir, From 1st -3rd October 2012.

Invited Lectures:

Delivers two Lectures on the topic "Methodlogy of Documentation in Manuscripts" In the Basic level Workshop on Manuscriptlogy and Paleography from 21st January to 10th February 2013. Under the sponsorship of National Manuscript Mission, New Delhi, organized by the Department of Odia Visva Bharati Santiniketan.

Priti Laxmi Swain :

1. Participated in the 87th Orientation Programme, UGC-Academic Staff College, The University of Burdwan, Burdwan, from 4th August 2012 to 31st August 2012.
2. Presented a paper entitled "Relevance of Isavasyopanisad to our Present Day Society", Dept. of Philosophy, Sidho-Kanho-BirshaUniversity, Purulia, West Bengal (in collaboration with ICPR), and 24th December, 2012.
3. Presented a paper entitled "Duties of women in Sukracharya's system of morals", in the National Seminar, Dept. of Sanskrit, Visva-Bharati, Santiniketan on 8th-9th March 2013.

Ram Pramol Kumar

1. Attended 88th Orientation Programme, Organized by Burdwan University, Sponsored by UGC during 31st Oct. to 27th Nov., 2012.

Academic Activities in the Department

- (1) Annual Seminar on 07.03.2013 : Prof. Satyanarayan Chakraborty, former Professor of Rabindra Bharati University, Kolkata, delivered a talk on 'Folk Elements in Abhijnanasakuntalam'.
- (2) National Seminar on 8-9 March, 2013. A National Seminar on 'The Gnostic and Didactic Literature in Sanskrit' was organized in the Deptt. Prof. R. M. Dash and Prof. P.M. Rath of Utkal University, Bhubaneswar gave Key-note and Special talks on the occasion. More that 35 research papers were presented and discussed upon.
- (3) Dr. Niranjana Jena, Associate Professor of our Department visited Sri Lanka and presented a paper entitled on "Socio Medico Charms in the Atharvavedic Tradition : Its Relevance in the Contemporary Society" in the International Research Conference on Humanities and Social Sciences, University of Sri Jayewardenepur, Sri Lanka, during 8th to 9th November, 2012.
- (4) There are 10 to 15 students of our Department who have qualified in the UGC NET and JRF Examination in June and December 2012 Examination.

DEPARTMENT OF ODIA

The department of Odia, Visva-Bharati, was conceived in 1947 and was established as a regular Post-Graduate Department in 1951. This department is the only Post-Graduate Department and learning centre of Odia Language and Literature in the country outside Odisha. It imparts teaching programmes both in Under-Graduate, Post-graduate, M.Phil & Ph.D. level. Besides it also offers Certificate and Diploma courses. Since its inception, the department has been maintaining a high standard in research and teaching activities.

NET : 07

National Seminar

The Department of Odia organized a Two day National Seminar during 01-02 March, 2013 on "Impact of Geetanjali on Indian Literature' in collaboration with Sahitya Akademi, New-Delhi.

National Workshop

The department of Odia organized Basic Level Workshop on 'Manuscriptology and Palaeography' in collaboration with National Manuscript Mission, New Delhi during 21 January - 10 February, 2013 for 21 days.. The Workshop was designed for M.Phil & Ph.D Scholars. There were 36 participants from different departments of universities.

The workshop was meant to educate young scholars about the theories, types & Problems of editing of Manuscriptology.

List of Departmental Seminar held by Teaching faculties and dignitaries

Sl. No.	Name	Title of the paper	Date
1.	Prof. Alibha Daskhi	Charjagitikara Bhasha	03.7.12
2.	Sri Manas Kumar Mukherjee (Scholar)	Galpika Gopinath Mohanty: Eka Adhyayana	10.7.12
3.	Sushree Mrunmoyee Priyadarshini(Scholar)	Odia Natakare	
	Adhunikata O Aswini Kumar		17.7.12
4.	Sabita Rana(Scholar)	Mohapatra Nilamoni Sahooanka Prabandhare	
		Astitwabadi Darshana	31.7.12
5.	Dr. Sarat Kumar Jena	Pradarsana Sila Kala : Eka Anudhana	14.8.12
6.	Sarmistha Mohapatra(Scholar)	Asi Parbati Odia Kabita : Eka Anusilana	21.8.12
7.	Hemalata Behera(Scholar)	Kuntala Kumarinka Upanyasare	
		Nari Charitranusilana	28.8.12
8.	Jnanee Debasish Mishra(Scholar)	Upanyasara Mukulapana O Oupanyasik	
		Ajay Swain	04.9.12
9.	Dr. Subodh Gopal Nandi	Research and Library	05.10.12
10.	Dr. S.N.Ojha	Computer Application	08.10.12
11.	Dr. Shakuntala Mishra	Hindi O Bangala Kavyare Radha:	
		Eka Tulanatmaka Adhyayana	09.10.12
12.	Prof. Baishanab Charan Samal	Biswayana O Adhunik Odia Kabita	16.11.12
13.	Prof. Purna Chandra Mishra	Bhala Kabita	16.11.12
14.	Prof. N.B.Harichandan	Odia Natak	17.11.12
15.	Prof. Narayan Sahoo	Odia Natak	23.11.12
16.	Prof. Bauri Bandhu Kar	Swadhinata Parabarti Odia Prabandha	26.11.12
17.	Dr. Krushna Chandra Bhuyan	Bangla Bhasha O Sahityaku Odianka Dana	03.2.13
18.	Prof Sudarshan Acharya	Odia Sahitya	10.2.13

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19.	Prof. Khageswar Mohapatra	Prachina Odia Sahitya	12.2.13
20.	Dr. Dinanath Pathi	Chitra O Sahitya	16.2.13
21.	Dr. Arabinda Pattanaik	Sahityar Mulyan	16.2.13
22.	Prof. Manoranjan Pradhan	Translation of Odia Gitanjali	05.3.13

Conference / Seminars / Lecture etc.

Sabita Pradhan :

1. Presented a paper on 'Odia Sahityare Adivasi Sanskruti O Bhasar Prabhab' in the National Seminar held at Sambalpur University, Sambalpur, Odisha, on 08.2.13 & 09.2.13.
2. Presented a paper on 'Swadhinata Parabarti Odia Kabitire Gandhi Chetana' in National UGC seminar at Moto College, Bhadrak, Odisha on 24.3.13.

Talk

3. Delivered 4 talks on 'Ancient & Medieval Odia Literature' as a Resource person in the Refresher Course of Sambalpur University, Sambalpur, Odisha, on 04th - 05th July, 2012.
4. Delivered 4 talks on 'Comparative Study of Odia, Bengali and Assamese Languages' as a resource person in the Refresher course in Guwahati University, Guwahati, on 24-25 July, 2012.
5. A National Seminar entitled 'Curricular in Higher Education' was organized by Ravenshaw University, Cuttack, Odisha on 29th June - 2nd July, 2012 along with the preparation of courses of studies for UG, PG & M.Phil course attended the seminar & prepared the course.
6. Delivered 3 lectures (04.2.13) on development of Odia Script in the Manuscriptology and Palaeography Workshop organized by Deptt. of Odia in collaboration with National Manuscript Mission, New Delhi.

Kailash Pattanaik :

1. Presented a paper entitled 'Gangadhara Meher and His Poems', in the national seminar organized by Odisha Sahitya Akademi, Bhubaneswar on the occasion of 150th. Birth anniversary of Poet Gangadhara Meher in the Bhasha Bhavana, National Library, Kolkata on 03.06.2012.
2. Presented a paper entitled 'Sri Jagannath in my Perception', in the national seminar organized by Utkala, Kolkata on the occasion of Rathayatra in the Swabhumi, Kolkata on 24th. June 2012.
3. Presented a paper entitled 'Rabindranath and Gangadhara', in the national seminar organized by Panchayat College, Bargarh, Odisha, on the occasion of 150th. Birth anniversary of Poet Gangadhara Meher during 27-28 July, 2012.
4. Presented a paper entitled 'Some Lessorknown Folk Sayings of Odisha', in the national seminar on Odishan Folklore: Text and Context, organized by Odisha Loksanskriti Parishad in collaboration with Ramadevi Women's College, Bhubaneswar, Odisha, during 19-20 August, 2012.
5. Presented a paper entitled 'Contemporary Trends in North Indian Folklore Studies', in the 'National symposium on Folkloristics Today', organized by International School of Dravidian Linguistics, on the occasion of Silver Jubilee Celebration of FOSSILS, at Thiruananthapuram, during 28-29, January, 2012.

Lecture Delivered:

1. Delivered lectures in four periods on 'Prachina O Madhyajugara Odia Katha Parampara' in the Refreshers course, as Resource person, conducted by the PG Department of Odia, Sambalpur university, Sambalpur, Odisha during July 17-18, 2012.
2. Delivered lectures in four classes on 'Pala and Ojapali' in the UGC sponsored Short term course in Folk Culture in Assam and NE Region, conducted by the Academic staff college, Gauhati University, Guahati on November 22, 2012.
3. Organised a national seminar as Convener, on 'Rabindranath and Indian Folkloristics', during February 14-16, 2013 at Santiniketan on behalf of Bhasha Bhavana.
4. Joined as Chief Guest in the one day 'Odia Bhasha Bikasha Karmashala'(Workshop on the Development of Odia Language), organized by Odia Bhasha Bikasha Andolan, Balasore at Shantikanan, Balasore on 27.10.2012.

Manoranjan Pradhan :

1. Presented a paper on Impact of Rabindranath on Odia Literature, in the National seminar organized by Assamese, Marathi & Tamil Language units of Bhasha Bhavana on the Seminar Impact of Rabindranath on Indian Literature 07th March, 2013.

Talk

1. Delivered a talk on 'Prema O Pranayara Kabi Gangadhar Meher' at National Library, Bhasha-Bhavana organized by Sahitya Akademi, Odisha, on 03.6.12.
2. Delivered 4 talks on 'Comparative Literature : Odia and Assamese & Bengali' as a resource person in the Refresher course in Guwahati University, Guwahati, on 24 -25 July, 2012.
3. Delivered a talk on 'Odia Kabitire Gandhi Chetana' in National UGC seminar at Moto College, Bhadrak. Odisha on 24.3.13.
4. Delivered a talk on Buddhist Schools on the National seminar organized by the deptt. of Indo-Tibetan Studies, Visva-Bharati as a Inaugurator on 02.2.13.
5. A National Seminar entitled 'Curricular in Higher Education' was organized by Ravenshaw University, Cuttack, Odisha on 29th June - 2nd July, 2012 along with the preparation of courses of studies for UG, PG & M.Phil course attended the seminar & prepared the course.
6. Delivered 6 lectures (29.1.13 & 06.2.13) on Writing materials of Manuscript & Prservation of Palm-leaf Manuscript in the Manuscriptology and Palaeography Workshop organized by Deptt. of Odia in collaboration with National Manuscript Mission, New Delhi.
7. Delivered a lecture in the topic Santhali Literature and Culture as a key note addresse in the National Seminar organized by the Santhali Deptt., Bhasha Bhavana, 12.3.13.

Pramila Patulia

1. Presented a paper entitled Safal Aitihaska Nataka 'Gobinda Bidyadhar': Eka Alochana in the XXIX Annual Conference of Paschim Banga Itihas Samsad, Kolkata from 24-26 January, 2013.
2. Presented a paper entitled 'Tapaswini Kavyara Ekadasa Sarga' in the National Seminar organized by P.G. Department of Odia, Panchyat College, Bargarh, Odisha from 16-17 February, 2013.

Sarat Kumar Jena

Orientation Programme

1. Participated in the UGC Orientation Programme in the Academic Staff College, Ranchi University, Ranchi from 10.7.12 to 06.8.12.

Seminar & Talk

1. Presented a paper named " Bhabani Sankar Mishra O Odia Gandhi chetana bhittika kabita : Eka Tulanatmk Adhyayana" in a National Seminar on "Bhabani sankara mishra: Srujan ebam Chintan" Organized Mickel Madhusudan Memorial College, Durgapur, on 23th February 2013.
2. Presented a Paper named " Santali Education: Status & Development" a National Seminar on "Santali Education and Culture" organized by Department of Santali, Bhasha Bhavana, Visva-Bharati on 12 March 2013.

Rabindra Kumar Das

International

1. Participated in two days International seminar and presented a paper entitled 'The Secrecy Behind the Failure of values in Contemporary Culture organized by the council for Research in values and Philosophy, Wasington D.C. and the Department of Philosophy and Comparative Religion at Visva-Bharati, Santiniketan.

National

2. Participated in UGC sponsored National Seminar and presented a paper entitled 'Sarala Dasanka Mahabharata Mula Samskruta Mahabharat Tharu Sampurna Bhinna O Swatantra' at Paradip port College, Jagatsingpur on 23.1.2013 and 24.1.2013.

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Research Project.

On Going Research Project in the Departemnt.

- | | |
|------------------------|---|
| 1) Name of the Teacher | Dr. Sarat Kumar Jena |
| Name of the Project | Animal Mask Dance of South Odisha : A Profile |
| Sponsoring Agency | UGC Minor Research Project |
| Amount Sanctioned | Rs.50,000/- |
| 2) Name of the Teacher | Dr. Rabindra Kumar Das |
| Name of the Project | UGC Major Project "Odia Lexicography : A Critical Study on Evolution' |
| Sponsoring Agency | UGC, new Delhi for 2 years (2012-2014). |
| Amount Sanctioned | Rs. 794,000/- |
1. Chaired a session in the national seminar organized by Panchayat College, Bargarh, Odisha, on the occasion of 150th. Birth anniversary of Poet Gangadhara Meher on 28.7.2012.

Publications

Books :

Sabita Pradhan

1. Bramhaputrar Kulekule, Odia translation, Published by Sahitya Akademi, Kolkata, March, 2013.

Research Paper

Kailash Pattanaik

1. Bhabanara Paridhana: Nityanandanka Galpa, Konark, 161 issue, 2012, Odisha Sahitya Akademi, Bhubaneswar

Pramila Patulia

1. Fakir Mohan Senapatinka Lachama : Eka Aityahisika Upanyasa, Itihas Anusandhan - 27, January, 2013 (ISBN-978-81-910874-3-7).

Magazine

Sarat Kumar Jena

1. Sahitya (Ed): October, 2012

DEPARTMENT OF ARABIC, PERSIAN, URDU & ISLAMIC STUDIES

Gurudev Rabindranath Tagore had a broad vision of having a confluence of different streams of thought and ideology under a single roof and the very establishment of the Department Arabic, Persian, Urdu & Islamic studies in the year 1927 with generous donation of Mir Osman Ali Khan, the Nizam of Hyderabad was one step forward towards the realization of this cherished goal. Towards broader scope of rapprochement among different religious ideologies and better understanding among different school of thoughts, the inception of the Dept. of Islamic Studies, a research oriented Dept. was meant to move towards the realization of the desired goal of Gurudev Rabindranath Tagore. With the passage of time some more courses were introduced to become a full fledged Department. At present the courses run of the Dept. include Arabic, Persian & Urdu at certificate & Diploma level as well as Persian Language and Literature at under graduate and post graduate level. The Dept. conducts researches in the respective fields of Arabic, Persian, Urdu and Islamic studies laying more emphasis on finding common humanistic elements of composite culture that may lead towards better understanding among the people of diverse ideologies.

Departmental seminar: Prof. Hafiz Mohammad Tahir Ali delivered Nezam Endowment lecture titled " Impact of Islam and Sufism on Indian religious movements with special reference to Sikhism and Barhamo Samaj" on 4.2.2013.

Conferences/ Seminar/ Workshop/ Exhibition etc.:

Wasif Ahmad

1. Participated and Presented a Research paper entitled "Insanam Aarzust" in the International Seminar on Maulana Jalaluddin Rumi organized during 19 -20 Sept. 2012 by the Institute of Persian Research, Aligarh Muslim University, Aligarh
2. Participated and Presented a Research paper entitled "A twentieth Century Brilliant Scholar and a great statesman of modern India: Maulana AbulKalam Azad" in the U.G.C. Sponsored National Seminar on Maulana Abul Kalam Azad in view of present Challenges organized by Oriental College, Patna city, patna on 16-17 Dec, 2012.
3. Participated and Presented a Research paper entitled "A thirteenth century Muslim Saint of Medieval Bihar Shaikhsh Sharafuddin Ahmad Yahya Maneri: A Study" in the Indian History Congress Academic Session held on 28-30, Dec., 2012 at the Dept. of History, Bombay university, Mumbai.
4. Participated and Presented a Research Paper entitled 'Paighambar e sokhan Awhaduddin Mohammad Anwari ' in XXXII All India Persian Teachers' Conference (International Session) held on 23- 25 February, 2013 at Lucknow University, Lucknow
5. Participated and Presented a Research paper entitled "Hazrat Amir Khusrow Dehlavi" in the International Seminar on Sufis tic literature produced in Persian: Tradition and Dimensions on 9 -11 March, 2013 organized by the Institute of Persian Research, A4,Shibli Road, Aligarh Muslim University, Aligarh-202002(U.P)

Md. Faique

1. Participated in XXXII All India Persian Teachers' Conference (International Session) held on February 23, 24 and 25, 2013 at University of Lucknow and presented a research paper entitled "Rumi's message of peace and fraternity on M.F. Gulen's vision : A Comparative Study".
2. Participated in the National Seminar on 'Impact of Geetanjali on Indian Literature' Organized by the Dept. of Odia, Visva-Bharati, in collaboration with Sahitya Academi, New Delhi held on 1st, 2nd March, 2013 and presented a research paper entitled "significance of Geetanjali and Tagore's vision on Persian Language and Literature".
3. Participated in the National Seminar Organized by Asamese, Marathi and Tamil language Units of Bhasha-Bhavana, Visva-Bharati, Santiniketan held on 7th and 8th March, 2013 and presented a research paper entitled "Impact of Rabindranath Tagore on Urdu Literature".

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ArungZebAzmi

1. Participated and Presented a Research Paper in the International Seminar on "Mirza Abdul Qadir Bedil" at Dept. of Islamic Studies, Jamia Hamdard, New Delhi on 15/03/2013 to 18/03/2013. The title of the paper presented was "Al-Mirza Bedil, Shair Hindi Kabir" (Mirza Bedil, A Great Indian Poet).
2. Attended a 'Refresher Course' in Arabic at UGC Academic Staff College, MANUU, Hyderabad from 4-24th Jan.2013.
3. National Seminar on "Eulogy of the Prophet Muhammad" at Dept. of Arabic, Delhi University, New Delhi on 5 - 6.3.2013. The title of the paper presented was "Shuarau Majahil li al-Madiah al-Arabi" (Some Unknown Poets of the Prophet Muhammad).
4. Attended 101st Four Week Orientation Programme' organized by UGC-Academic Staff College, JMI, New Delhi from 16/07/2012-13/08/2012.

Md. Atiqur Rahman

1. Participated in two days National Seminar on the "Philosophy of Sri Chaitanya and Indian Culture" on 30-31, March, 2013 organized by Dept. of Philosophy & Religion, Visva-Bharati.
2. Participated in two day International Seminar at Iran Society, Kolkata on central theme of Contribution of European Scholars to Persian Studies in India on 23-24th March, 2013. Paper was presented on the topic of "Tarikh-e-Fakhruddin Mubarakshahi of Sir Edward Denison Ross: "An Analytical Study".
- 3) Ongoing research project in the Department :

Extension Activities: /NSS/Cultural and other activities organized by the Department and participated by teachers and students of the Department:

Publication

N.A. Khan

"Image of India in Indo-Persian Poetry" published in Indo-Iranica, The quarterly organ of Iran Society, Vol.65, Numbers 1&2, March & June 2012, Page no. 94-104.

Wasif Ahmad

1. Published a Research paper entitled "Nigahi e Kutah beh Tazkerah e Reyazusshoara e Ali Quli Khan Waleh Daghistani va Ahwale Moallif" in the volume of the seminar Published by the Institute of Persian Research, Aligarh Muslim University, Aligarh.

(a) Books Published:

Under Preparation:

1. A-Ṭaḥ al-Mandūd fi Shu'arā 'l al-'Arabīyah al-Hunūd (A Directory of Indian Poets of Arabic Language)
2. Ṭāghore, Ḥayātuhu wa Ātharuhu (Tagore, Life & Works)
3. Ta'wīl-u-Āyāt (Interpretation and Explanation of Some Difficult Verses of the Qur'an)

(b) ArticlesPublished:

1. Tafsir Tadabburul Qur'an-2 (Qur'anic Commentary Tadabbur-e-Qur'an), MH 1/2/8-29
2. Al-Tab'ah al-Bakistaniyyah li "Divan al-Faiz", Dirasah Naqdiyyah (A Critical Study of Pakistani Edition of "Divan al-Faiz"), MH 1/2/167-205
3. Tafsir Tadabburul Qur'an-3 (Qur'anic Commentary Tadabbur-e-Qur'an), MH 1/3/7-23
4. Srilanka wa Silatuha Ma'a al-Arab; Mulahazat Tarikhiyyah (Syrilanka and its Relations with the Arab; Historical Notes), MH 1/3/107-117

5. Al-Hijab (The Veil), MH 1/3/149-152
6. Tafsir Tadabburul Qur'an-4 (Qur'anic Commentary Tadabbur-e-Qur'an), MH 1/4/7-17
7. Al-Adab al-Arabi al-Jahili Aunan Kabiran fi Tafsir-i-Muhtawayati al-Qur'an (The Pre-Islamic Arabic Literature a Great Help to Explain the Contents of the Qur'an), 1/4/18-56
8. Al-Qazi Athar al-Mubarakpuri, Hayatuhu wa Ma'athiruhu (Qazi Athar Mubarakpuri, His Life & Works), 1/4/136-174
9. Athara (Preference), 1/4/201-205
10. Khutwah Nihāyiyah (Last Step), 1/4/206-208
11. Tafsir Tadabburul Qur'an-5 (Qur'anic Commentary Tadabbur-e-Qur'an), MH 2/1/7-60
12. Taramah Buwayz Mathur al-Injilziyyah li Abyat Alf Laila wa laila, Dirasah Naqdiyyah (English Translation of Alif Laiyla's Verses by Powys Mathers, A Critical Study), MH 2/1/149-169
13. Rihla-Tul-Hind (A Critical Study of Rihla-Tul-Hind), MH 2/1/183-214
14. Al-Daurah al-Tanshitiyyah al-Hukumiyyah Haul al-Naqd al-Adabi al-Arabi (Refresher Course in Arabic Literary Criticism), MH 2/1/218-230
15. Sujana-o-Fi Daril Ajazah (Prisoners of Old Age Home), MH 2/1/231-235
16. Man Takalla Bi al-Najāh (Who succeeded?), MH 2/1/236-238
17. Perception of Arabic Words used in the Persian Language & Literature, its Problem and Solutions, Naqsh, 11/09/168-174
18. Moral Teachings of the Qur'an, Glimpses of the Holy Qur'an, Adam Publications, Delhi, 2012, Pg.61-74

Accepted for Publication:

1. Munshi Naval Kishore and Printing the Qur'ān, Radiance Views Weekly, New Delhi
2. Daur-o- al-Hilāl fi Taṭwīr al-Dirāsāt al-Qur'āniyyah (al-Hilāl's Role in the promotion of the Qur'ānic Studies), al-Furqān monthly, New Delhi

Unpublished:

Note: There are more than ten articles ready to be sent for publication.

Md. AtiqurRahman

Published:

Research Paper/ Article

1. Sunnat Shikniye Mehdi Akhawan-e-Thalith Dar Hammaseh Sarai-e-Farsi-e-Maasir (Persian) "Danish" yearly research journal, University of Kashmir, Sri Nagar, Vol. XXIX, Page No. 54-58, 2011-12. (ISSN-0975-6566)
2. Prof. Nazir Ahmad wa Karnama-e- Adabi-e-Aan, Qand-e-Parsi (Special number on Prof. Nazir Ahmad), The International quarterly journal of Persian Culture, Language & Literature, Persian Research Section, Iran Culture House, New Delhi, Vol. No.55-58, Spring, Summer, Autumn and Winter, 2012-2013. Page No. 28-47.
3. Indo-Iran Cultural Relations (English), "Danish" yearly research journal, University of Kashmir, Sri Nagar, Vol. XXX, Page No. 45-57, 2012-13. (ISSN-0975-6566)

Wasif Ahmad

Award:

The best citizens of India Award 2012: received "The best citizens of India Award, 2012" on 6th November, 2012 from International Publishing House, New Delhi - 110002.

Department of Indo-Tibetan Studies

In 1954, the Department of Indo-Tibetan Studies was established as a separate Post-Graduate center with the financial assistance from the University Grants Commission (UGC) to promote research on age long cultural relations between India and Tibet. For a better understanding of the Tibetan texts and to remove ambiguities during the study of independent Tibetan commentaries several scholastic Tibetan Lamas were invited to Santiniketan to work in collaboration with Indian scholars, to promote systematic study and investigation of Indo-Cultural relations down the ages. The aims were many: to arrange for the study of Tibetan culture in general and the Buddhism preserved in Tibetan translation in particular; to restore the lost Buddhist Sanskrit texts preserved in Tibetan translation; to make texts available in translated versions both in Indian and foreign languages; to promote research in the Indo-Tibetan fields through exchange of information with other cultural and scientific bodies in India and abroad engaged in similar research; to publish monographs containing results of study and research undertaken by the staff and students of the institute; to train Tibetan scholars in the study of Sanskrit and Pali texts as well as Sanskrit scholars in the study of Tibetan texts; to provide for a course in classical and modern Tibetan leading to a Certificate Proficiency followed by an advanced course leading to a diploma in the same subject; and to establish a Research Library and Museum to cover the Indo-Tibetan Students field.

The Centre for Buddhist Studies was launched in 2007 under the X Plan by the newly appointed Head of the Department.

Seminar:

The Department organized an international conference on "Ideology and the Genesis of Buddhist Schools" on 3-5 February, 2013 with financial support from ICCR, Kolkata.

Sanjib Kumar Das

a. Participation in Seminar/Conference/Workshop/Symposium

- i. National Seminar on "Fifth All India Seminar on China Studies." Organized by the Department of Chinese Language and Culture (Cheena Bhavana), Visva-Bharati in collaboration with the Institute of Chinese Language (ICS), Delhi (15-16, November, 2012). Paper submitted on "Evolution and declination of Buddhism in China : A brief accounts."
- ii. International Conference on 'Contribution of Buddhism to World Peace' organized by the Central University of Tibetan Studies, Sarnath, Varanasi from 13-15 January, 2013. Paper submitted on "Contribution of Buddhism for a Harmonious Society."
- iii. International Seminar on "Ideology and the Genesis of Buddhist Schools" organized by the Department of Indo-Tibetan Studies, Visva-Bharati in collaboration with the ICCR, Kolkata, 3-5 February, 2013. Paper submitted on "Evolution of Sautrantika School and its First Ācārya: A brief Account."
- iv. National Seminar on "Prospective Scope of Buddhist Studies" organized by the Centre for Buddhist Studies, Visva-Bharati, 23-25 February, 2013. Paper submitted on "Bodhicaryāvatāra and its Scope of Study."

Publication

- i. 'Sutrasamuccaya' by Ārya Nāgārjuna in Tibetan, Sanskrit & Hindi languages has been published by Central University of Tibetan Studies (CUTS), Sarnath, Varanasi.
- ii. 'Manual for Tibetan Lesson' containing the translation of 'Mūlatrimśa' by Thonmi Sambhota and 'Subhāsita-Drumendra' by Yangcan Drubpay Dorjee into Hindi and English from Tibetan has been published by Karmapa International Buddhist Institute, New Delhi.
- iii. Article entitled 'The Concept of Buddha-nature: An analysis' published in the Journal titled 'Buddhacakkam', New Delhi.

Ongoing Project

- i. Critical Edition and, Translation and Restoration of the text titled "Samayabhedoparavacana-cakrasenakaya-

bhedoparideshanam-nama-samgraha (Tib. gzhung tha dad pa rim par bklag pa'i 'khor lo las sde pa tha dad pa bstan pa bsdu pa zhes bya ba)."

- ii. Critical Edition and Translation of the text titled "Dohā-koṣa-nāma-Mahāmudrā-Upadeśa {Tib.: doha mdzod ces bya ba phyag rgya chen po'i man ngag" from Tibetan into Hindi and English.
- iii. Translation and Editing of the book titled, "Encyclopedia of Himalayan Buddhist Culture Project" from Hindi into English.

Anandamayee Ghosh

Associate Professor

Participation in Seminar/Conference/Workshop/Symposium

i. International Seminar (Participated & Presented Papers)

1. Two-day International Seminar on "Buddhist Contribution to Building a Peaceful Society" organized by Department of Pali, University of Calcutta on 26-27 September 2012. Paper presented on 'Diverse Vinaya Rules in Asia Look forward Social Development'.
2. Three-day International Seminar on "Ideology and the Genesis of Buddhist Schools" organized by Department of Indo-Tibetan Studies, Visva-Bharati in collaboration with ICCR, Kolkata on 3-5 February, 2013. Presented paper on 'Genesis of Sehism(s) among the Buddhists in their Home-land'.

National Seminar (Participated and Presented papers)

1. National Workshop on 'Four Facets of Bhoti in India' organized by Dept. of Tibetan Studies, Nava Nalanda Mahavihara (Deemed to be university). Nalanda on 3-4 May 2012. Presented papers on Ladakhi version of kser sgrungs.

Book (Published)

Buddhist Vinaya: A Focus (w.r.t Mulasarvastivada Vinaya): Published by Buddhist World Press, Delhi, 2013.

Published Papers

Prakriti Chakrabarty

Assistant Professor

National/International seminar participated

- (i) "Prospective Scope of Buddhist Studies" organized by the Centre for Buddhist Studies, Visva-Bharati on 23-25 March 2013.
- (ii) "Ideology and the Genesis of Buddhist Schools" organized by the Dept. of Indo-Tibetan Studies, Bhasa-Bhavana, Visva-Bharati on 3-5 February 2013.

CBS-Special Lecture

Delivered a Special Lecture on "Buddhism in Tibet and China" at the Centre for Buddhist Studies, Visva-Bharati on 19 March 2013.

Shedup Tenzin,

Assistant Professor

Participation of conferences/workshop/seminar/lecture/Excursion

Papers presented

"Derivation and Loan Words in Classical and Modern Tibetan Language: An Overview" presented at the National Workshop on the "Four Facets of Bhoti Language" organized by the Department of Tibetan Studies, Nava Nalanda Mahavihara (Deemed University), Bihar from 3rd -4th May 2012.

"The Status of Woman in Tibetan Buddhism" presented at the International Seminar on "Buddhist Contribution to Building a Peaceful Society" organized by the Department of Pali, University of Calcutta from 26th and 27th September, 2012

"The Yogācāra Term Tri-Svabhāva and its Application in the Tibetan Medical Tantras (Rgyud Bzhi)" presented at the International Seminar on the Ideology and the Genesis of Buddhist Schools organized jointly by the Department of Indo-

Ch-II

Tibetan Studies, Visva-Bharati, Santiniketan and ICCR, Kolkata from 3rd-5th February, 2013.

Delivered a lecture on the "Introduction of Buddha and Historical Buddha" at the Special Lecture Series programme organized by Central for Buddhist Studies on 16th March 2013.

Publication:

"The Non-Apprehension ('dzin med) of Luminosity and Emptiness: A Lam 'bras View of Sakya Tradition" Tantrik Literature and Culture: Hermeneutics & Expositions. Delhi: Buddhist World Press, 2013.

Sonam Zangpo

I. Seminar/ workshop/ Conference / Symposium:

1. Three-Day National Seminar on "Prospective Scope of Buddhist Studies" organized by Centre for Buddhist Studies, Visva-Bharati, Santiniketan [23-25 March, 2013]. Participated and presented paper on "Present Status and Future Prospective of Buddhism and Buddhist Studies in Northern Frontier India: An Introduction" on 25 Mar. 2013 at the premises of Dept. of Indo-Tibetan Studies, V-B.
2. Two-Day National Seminar on "Buddhism/Buddhist Culture as a Theme in Tagore's Works" organized by HBCA, Delhi in collaboration with Raja Rammohan Roy Foundation, Kolkata held at HBS, Salugara, W.B. [4-5 August, 2012]. Attended and presented Paper on "Visvakavi Gurudev Rabindranath Thakur (1861-1941) Tatha Santiniketan: Bharat-Bhota Adhyan Vibhāg ki Sandrabh main Eka Chintan."

Seminar Attended/Coordinated/Paper Presented:

1. Presented a paper entitled "Prospect and Challenges of the Chakma Buddhists" at a national seminar on "Prospective Scope of Buddhist Studies" organized by the Centre for Buddhist Studies, Visva-Bharati on 23-25 March, 2013.
2. Presented a paper entitled "Truth as Found in the Madhyamika School of Buddhist Philosophy and Its Significance in Understanding the True Meaning of Life" at an international seminar on "Ideology and the Genesis of Buddhist Schools" organized by the Dept. of Indo-Tibetan Studies, Bhasa-Bhavana, Visva-Bharati on 3-5 February, 2013.
3. As Academic Coordinator attended and coordinated an international symposium on "Buddhism and Historical Buddhist Sites in India and Nepal" organized by Indian Council for Cultural Relations (ICCR), New Delhi in collaboration with Indian Embassy to Kathmandu and Lumbini Development Trust, Nepal on 15-17 January, 2013 in Lumbini, Nepal and presented a paper entitled Buddhism and Sacred Buddhist Sites as Found in Tagore's Works there.

Publication:

Bodhipathapradēpa and its Significance in Tibetan Buddhism in Tantrik Literature and Culture: Hermeneutics & Expositions, ed. Prof. Andrea Loseries, World Buddhist Press, New Delhi, 2012.

Department of Santali

Departmental Seminar

1. Organized a Special Lecture by Sopan Parmanik, Editor, "Lahanti Patrika on 25/02/2012.
2. Organized a Special Lecture by Lea Schulte-Droesch, Ph.D. Student, Graduate School Theology and Religious Studies, University of Groningen on 08/04/2012.
3. Organized a National Symposium on "Women's Voice in Santali Literature" collaboration with Department of Santali and Sahitya Akademi, New Delhi held on 20th May 2012.
4. Organized a "Kabi Sandhi" Programme Organized in collaboration with Sahitya Akademi, New Delhi held on 21st May 2012.
5. Organized a Translation Programme Organized by collaboration with Department of Santali and Sahitya Akademi, New Delhi held on 21st and 22nd May 2012.
6. Organized a Special Lecture by Dr. Boro Baski, Principal, Rolf Schoemv's Vidyashram "The Experience of Translating Raktakarabi" Organized Jointly by Dept. of Santali and Patha Chakra, Visva-Bharati on 23/02/2013.
7. Organized a Special Lecture by Dr. Ratan Hembrom, Assistant Professor, Dept. of Santali, Vidyasagar University, Midnapur on 25/02/2013.
8. Organized a National Seminar "Santali Education and Culture" on 12th March 2013.
9. Organized a Special Lecture by Mr. Birbal Hembrom, Assistant Professor, Dept. of Santali, Bahragora College, Bahragora, Kolhan University, Chaibasa, Jharkhand on 28/03/2013.

National and International Conference/Seminar/Workshop/ Exhibition etc.

Sanat Hansda

Orientation Programme:

1. Orientation programme at UGC Academic Staff College, Burdawan University, Burdawan from 31st Oct. to 27th Nov. 2012.

Dhaneshwar Manjhi

National:

1. Presented a paper in a National seminar on "Impact of Globalization on Santali Higher Education in India" Organized by AIFUCTO(All India Federation of University and College Teachers Organisations) , at Aryabhata Sabhagar, Ranchi University, Ranchi, Jharkhand on 16th September-2012.
2. Presented a paper in a National seminar on "Santal Arichali reak dasa are disa" Organized by All India Santal Intellectual Literary Forum ,Jamshedpur, Collaboration ERLC, Bhubaneswar, Odisha at Ghatsila College Ghatshila, East Singhbhum, Jamshedpur, Jharkhand on 16th & 17th February, 2013.
3. Presented a paper in a Eastern Regional Level seminar on "Janjatiy Samaj Me Pathan-Abhiruchi ka vikash kaise ho & Evam Presented Poem in Kavi Samelan" Organized by NBT of India & KKM College Pakur Jharkhand at KKM College Pakur Jharkhand on 6th October, 2012.
4. Presented a paper in a National seminar on "Impact of Rabindranath on Santali Literature" Organized by Assamese, Marathi & Tamil Language Units of Bhasha-Bhavana, Visva-Bharati at Lipika Auditorium, Visva-Bharati on 7th & 8th March, 2013.

Chaired Presided

1. Presided a National Seminar Valedictory Session "Santali Education and Culture" held at Singha Sadana, visva-Bharati, Santiniketan on 12th March 2013.

Ch-II

Refresher Course:

1. Attended a Refresher Course in "Linguistics" at UGC Academic Staff College, Ranchi University, Ranchi, Jharkhand from 05/09/2012 to 25/09/2012.

Dukhia Murmu

1. Presented a paper in the National Seminar on "Santali Education and Culture" Organized by Dept. of Santali, Bhasha-Bhavana, Visva-Bharati, Santiniketan, at-Singha Sadana, Patha-Bhavana Campus on 12th March, 2013 The title of paper 'Santal Sanskriti ki Sankat aur Chunaotiyan'

National Symposium:

1. Presented a paper in the National Symposium " Women voice in Santali Literature" Organized by Dept. of Santali, Bhasha-Bhavana, Visva-Bharati, Santiniketan collaboration with Sahitya Academy, Rabindra Bhavana, 35 Ferozeshah road, New Delhi at Lipika auditorium Santiniketan on 20th May 2012. The Title of the paper- "Women voice of Santali children Literature.

Mansaram Murmu

National:

1. Presented a paper in National Seminar on 'Santali Education and Culture' One day programme on 12th March, 2013, Organized by Dept. of Santali, B.B, V.B, at Singha Sadan Title of the paper: - Santali Culture.

Orientation Programme:

1. Participated in the Orientation programme at UGC Academic staff College, Burdawan University, Burdawan from 31th Oct. 2012 to 27th Nov. 2012.

Tapan Soren

National Seminar:

1. Presented a paper in the National Seminar on 'Santali Education and Culture' on 12th March 2013 organized by Department of Santali Bhasha Bhavana, Visva-Bharati, Santiniketan, Govt. of India. Presented a paper 'Santali Lucture' (Santali Culture).
2. Participated in a symposium in "Women's voice in Santali Literature organized in Collaboration with Santali Department, Visva Bharati held on 20th May 2012 at Visva-Bharati, presented the title of the paper (Santali parsi re go harak ename).

Ramu Hembrom

National:

1. Presented a paper in the National seminar on "Santal Pa.rsi reak dasa ar disa" Organized by All India Santal Intellectual Literary Forum ,Jamshedpur, Collaboration ERLC, Bhubaneswar, odisha at Ghatsila College Ghatshila, East Sighabhum, Jamshedpur, Jharkhand on 16th & 17th February, 2013.
2. Presented a paper in the National Seminar on "Santali Education and Culture" Organized by Dept. of Santali, Bhasha-Bhavana, Visva-Bharati, Santiniketan, at- Singha Sadana, Patha-Bhavana Campus on 12th March, 2013 The title of paper : - Santal Kowak' a.ruferawak' horok-bande A.richali.
3. Presented a paper in the National Symposium "Women voice in Santali Literature" Organized by Dept. of Santali, Bhasha-Bhavana, Visva-Bharati, Santiniketan collaboration with Sahitya Academy, Rabindra Bhavana, 35 Ferozeshad road, New Delhi-110001 at Lipika auditorium Santiniketan on 20th May 2012. The Title of the paper- "Women voice of Santali essay.
4. Presented a paper in a Eastern Regional Level seminar on "Janjatiy samaj me Pathan-Abhiruchi ka vikash kaise ho & Evam Presented Poem in Kavi Samelan" Organized by NBT of India & KKM College Pakur Jharkhand at KKM College Pakur Jharkhand on 06 October 2012.

5. Delivered a Lecture on Celebration of Hul Maha, 30st June 2012, Organized by Barabani, Asansol 'ASECA' Branch, Burdwan W.B.
6. Delivered a Lecture on Celebration of "ASECA" Branch Annual Programme, Organized at- Barabani, Asansol.

Orientation Programme

Attended UGC-Sponsored 71th Orientation programme at UGC Academic staff College, Ranchi University, Ranchi from 03rd Jan, 2013 to 30th Jan, 2013.

5. Ongoing Research Projects in the Department

- i. Name of the Teacher-Mr. Sanat Hansda (PI) & Dr. Dhaneswar Manjhi (Co-P1)
Name of the Project- Development of Shallow Parser tools for 12 Indian Language (SPT-LL) Sponsoring Agencies- Government of India, Ministry of Communication and Information Technology. Department of Information Technology.
Amount Sanctioned -36.00 Lakhs.

Publication

ii. Other books /MagazineArticals:

Sanat Hansda -

1. 'Santali Saonhed Utnao Re P.O. Bodding ak Enem' - Lahanti Patrika - 14th Year 5 No. 16th June 2012.

Dhaneswar Manjhi

1. Sub Editor- journal of 'Akhara' Published by P.K.Foundation, Ranchi. Jharkhand from June-August, 2012.
2. Title of "Santal Gar" in journal of Akhara Publisher by P.K.Foundation, Ranchi. Jharkhand on June-August, 2012.
3. Designing New Course/Curriculum or any other teaching innovations introduced by the Department.
4. A brief history on the development of the Bhavana/ Sadana/ Vibhaga concerned with in indication of the future planes for development. -

Department of Marathi

Departmental Seminar (Speakers, Title of the Seminar, Date) –

Org. two days National Seminar. ‘Impact of Rabindranath on Indian literature’ 7th & 8th March 2013.

National and International standard Conference/Seminar/Workshop/ Exhibition etc. attend by the Teachers/ Research scholars in details.

International Seminar (Attend)

- 1) ‘A Man of Letters’ Rabindranath Tagore and his Epistles. 14th & 15th March 2013.(Rabindra Bhavana, Visva-Bharati)

National Seminar (Presented Paper)

- 1) Uttam Kamble yanchye Aatmpar lekhan aani patrkarita-(Jaybhavani college Gadhi.Dist-Beed.M.S)-26-27th Dec.2012.
- 2) Importance of Santali language in Education. (Dept. Of Santali, Vishva-Bharati)-12 th March 2013.
- 3) Marathi aur Hindi ke katha sahye me slam jivan- (Dept.of Hindi, Karim city College,Jamshedpur.)-20th & 21 March 2013.

Workshop

- 1) Rabindranath and Santiniketan.-(Rabindra Bhavana, Visva-Bharati)-10th& 24th Feb.2013.

Publication within the year April 2012-March 2013.

- i. “Samta Sangaracha Mahanayak”-Anuradh Prakashan Nanded,M.S.-Research Paper.

Department of Tamil

Departmental Seminar (Speakers, Title of the Seminar, Date) –

1. TAGORE IMPACT ON INDIAN LITERATURE- MARCH 2013

Senthil Prakash.S Assistant Professor in Tamil:

National and International standard Conference/Seminar/Workshop/ Exhibition etc. attended

- Participated and presented the paper in the National seminar conducted by Indian university Tamil Teacher’s association on May 2012 Bengaluru. Karnataka.
- Presented the paper in the national seminar conducted by MS University college(Tamilnadu) on February 2013.
- Attended the orientation course conducted by ASC- Bharathiar University,Coimbatore on February 2013.

Academic distinctions gained

Department of Tamil become a member (2012) of Association of Asian studies –USA Publication within the year

- i. A Book of Mirdad and Tamil philosophy- IUTA Bengaluru- May 2012. ISBN 9789380342573 p.no 1823.
- ii. THIRUKURAL AND PERSONAL MANAGEMENT- MS UNIVERSITY COLLEGE-FEB 2013.

Designing New Course/Curriculum or any other teaching innovations introduced by the Department.

1. E-content developed for basic Tamil learners.
2. Basic Tamil learning books are digitalized for students.

A brief history on the development of the Bhavana/ Sadana/ Vibhaga concerned with in indication of the future planes for development.

The Tamil Department shall make available innovative, socially-relevant educational provisions that are learner- centered, seamless and are of high-quality by employing appropriate technologies to achieve equity in education, sustainable social transformation and composite national development.

ASSAMESE LANGUAGE UNIT

Departmental Seminar - 2 days National Seminar Topic-IMPACT OF RABINDRANATH ON INDIAN LITERATURE, on 7th & 8th March, 2013 organized jointly with Marathi & Tamil Language Units.

National and International standard Conference/Seminar/Workshop/ Exhibition etc. attended by the Teachers/ Research scholars in details-

Name of the Teacher: Dr. Sangita Saikia

- a) Participated in a 3 days National Seminar on Rabindranath And Indian Folkloristic (organized by Bhasha-Bhavana, Visva-Bharati, Indian Council for Folkloristic Studies & Central Institute of Indian Languages, Mysore , held at Visva-Bharati, on 14-16 February, 2013). Name of the presented paper- Assamese Folk Elements & Traditional Knowledge System.
- b) Attended a 3 days International Seminar on Rabindranath Tagore Man of Letters, organized by Rabindra Bhavana, Visva-Bharati, on 15th-18th March, 2013.
- c) Participated in a 21 days UGC Sponsored Refresher Course on Assamese Language & Literature after 1960-2010 (organized by UGC Academic Staff College, Gauhati University, Guwahati, 28th May-17th June, 2012)
- d) Attended a 2 days National Workshop on PEOPLES LINGUISTIC SERVEY OF INDIA, (organized by Bhasha Research and Publication Centre, Baroda & Dept. of Assamese, Gauhati University, Guwahati , 26th & 27th April, 2012)

Publication

Name of the Teacher:

Sangita Saikia

- i. Text books - 1 (one) Deuri Assamese Bilingual Primer, 2012
- ii. Research papers- Author- published in Satsori, 8th Year, 2nd Issue, September, 2012, Page No.95
Title of Paper- Anyatra Birala Devi: Samaj Bastavata Jivanta Dastavez
- iii. Number of paper published in Peer reviewed/ Refereed journals: National/International.-I (one)
Name of the Journal- Aitihya, the Heritage, Trilingual Research Journal on Indology, (National)

Title of Paper- Deuri Bhashik Janagosthir Dwibhashikata, Bhasha Samanvay, Sankraman Aru Mishran, Journal Volume No-III, Issue No-I, Year- April, 2012

Designing New Course/Curriculum or any other teaching innovations introduced by the Department. - Designed new syllabus for 2 year Certificate and 1 year Diploma Course in Assamese Language.

The Dept. has re-opened in June, 2007 and started with 2 students of Certificate course. Now this is a language unit with two year certificate and one year diploma course in Assamese Language.

DEPARTMENT OF JAPANESE (NIPPON-BHAVANA)

Visva-Bharati, in keeping pace with its global character started the department with two-year Certificate and one-year Diploma Courses in the year 1954 under Dr. Probodh Chandra Bagchi. This is the first university in India to introduce Japanese Language courses. Since its inception, many eminent Japanese Scholars came to Santiniketan on teaching assignments and were attached to the department. In the initial stage of the department, Japanese Buddhism and Languages were taught. In the year 1976, Japanese was introduced as a subsidiary subject in the Uttara-Siksha-Sadana. This is the only place, where Japanese Language is being taught at the High School level. Till 2001 the teachers of the department actively took part in the teaching of Japanese Language at Uttara-Siksha-Sadana. In the year 1999, the department started four-year B.A. Honours Course. Subsequently, a two year MA Course was introduced in the year 2006. The department intends to expand to keep pace with the present requirement of Japanese Language in India. Along with its development in the new academic fields, the department aims to grow as a cultural centre as well as a research centre for Japanese Studies in order to have a better understanding of both the societies. The library with a large number of books in Japanese and in English (on Japan) can provide necessary guidance to the scholars of Japanese Studies. A number of Japanese universities and educational institutions in Japan are showing interest to establish cultural as well as academic ties with the department of Japanese, Nippon-Bhavana. This endeavour of the department may work as an impetus to enrich the international character of the university and strengthen the age-old cultural relation between India & Japan.

Name of the students qualify in Examination:

Departmental Seminar/ Workshop: One day Workshop on Origami, the paper folding art of Japan, was organized on November 6, 2012. Origami experts from Japan conducted the workshop.

Conference/Seminar/Work-shop/Exhibitions etc.

Gita A Keeni

Conference / Seminar

1. Attended the Sixth Biennial International Conference of Indian Association for Asian & Pacific Studies (IAAPS) at the University of Calcutta, Kolkata during December 17-19, 2012 and presented a paper on 'Social connotations in selecting a life partner: Japan and Bengal'.
2. Participated in the National Seminar on 'Impact of Gitanjali on Indian Literature' organized by the Department of Odia, Visva-Bharati, in collaboration with Sahitya Academi, New Delhi at Visva-Bharati, Santiniketan during March 1-2, 2013 and presented a paper on 'Tagore's Gitanjali in Japan'.

Ajoy Kumar Das:

Refresher Course

1. Attended Four-weeks Refresher Course in Comparative Literature organized from 14.07.12 to 03.08.12 in Burdwan University, ASC, Burdwan.

PROCTOR JLPT

1. Attended the Japanese Language Proficiency Test as a PROCTOR being selected by the Consulate General of Japan, Kolkata and the Test co-operation Committee, Eastern India (July 01, 2012).

ORGANIZED BY THE DEPARTMENT:

Academic distinctions gained

A brief history on the development of the department:

Other relevant information

- Two students were awarded one year Japanese Government Scholarship (Monbukagakusho) based on their performance in the competitive examination conducted by Japan Foundation, New Delhi, on an all India basis.
- A number of students visited Japan for a short duration of 10 days under the JENESIS / KIZUNA project announced by the Japanese government.
- Mr. Sumanta Ghosh of MA 2nd year visited Japan on a 6 week Japanese Language training program organized by the Japan Foundation, Kansai, Japan.
- A team from Kyoto Bunkyo University, Kyoto, Japan, visited the department as a part of their 'Cultural Exchange and Field Work Program in India' from 11th to 23rd November 2012. They had a noteworthy interaction with the students of the department as well as with the Patha-Bhavana students.
- A team headed by Prof. Nakamura from Chikushi Jogakuen University, Kyushu, Japan, visited the department from 18th to 20th February 2013 and had a cultural interaction with the students and members of the faculty. This was their 24th visit to Santiniketan.

DEPARTMENT OF CHINESE LANGUAGE & CULTURE

Name of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations.

Scholarship

In 2012, one student availed MHRD scholarship of Government of India to pursue studies in China under the India-China Bilateral Cultural Exchange Programme and another went to Taiwan to pursue studies in Taiwan with the scholarship of Taiwan Government.

A 15 member student delegation from Visva-Bharati visited Yunnan University from 27th May to 6th June, 2012.

Departmental Seminar (Speakers, Title of the Seminar, Date)

1. Orientation Programme for Army Education Corps Panchmari was organized from 30th June to 09th July, 2012.
2. "Fifth All India Conference of China Studies" organized on December 15-16, 2012 at Santiniketan in collaboration with the Institute of Chinese Studies, New Delhi.
3. A seminar on "Vibrations between Tagore and World Culture and Literature with Special Reference to China" on the occasion of the Centenary Celebration of the Award of Nobel Prize to Rabindranath Tagore: A Curtain-raiser was organized in collaboration with Institute of Chinese Studies, Delhi on December 2012
Professor Dilip Kr. Basu, Department of History, University of California, delivered a lecture at Cheena Bhavana on 11th February, 2013 at 3.30 pm. on "Historiography of the Opium War (1839-42) and the State of China Studies in U.S"

National and International standard Conference/Seminar/Workshop/Exhibition etc.

Jayeeta Ganguly

Seminar/Conferences/Workshop

1. Attended the Fifth All India Conference of China studies held in Visva-Bharati, Santiniketan from December 15-16th, 2012 and presented a paper entitled "Buddhism, Confucianism and Taoism; their relevance in the present day world in session Four: Emerging Trends in China studies- History, Philosophy & Religion."
2. Attended the 29th session of the Pascimbanga Itihas Samsad held in Lady Brabourne College, Kolkata from 24th - 26th January, 2013, and presented a paper entitled "Bartamaan Samaje Buddher Upadesavali Prasangikata".

Academic Visit:

Visited Yunnan University, Kunming on a teachers training programme under the joint agreement between Visva-Bharati and Yunnan University, from 18.06.2012 to 18.07.2012.

Publications:

1. Article entitled "Cheena Bhasaye Ratnakatasutra Antara gata Ratnarasi sutra-Ekti Paryalochana published in Itihas Anusandhan, 27 pp 1221-27 published by the Pascimbanga Itihas samsad."

Avijit Banerjee,

Seminar/Conferences/Workshop

1. Delivered a Lecture on “印中教育合作的历史与展望” (History and Prospect for India China Educational Cooperation) in the Institute of South Asian Studies, Sichuan University, China on 15th June, 2012.
2. Presented a paper on “ 中国科学院汉语教学的发展状况 ” (Teaching and Learning of Chinese at Cheena Bhavana) in the Roundtable on "Teaching and Learning of Chinese Language in India" organized by the Centre of Chinese and Southeast Asia Studies, JNU, New Delhi on 9th August, 2012.
3. Presented a paper on "Institutionalizing China Studies in India" at the All India China Scholars Colloquium organized

by the Institute of Chinese Studies at Delhi on 11th August, 2012

4. Paper presented on "1937年来印度汉学与汉语教学的状况" (Sinology and the State of Chinese Teaching in India Since 1937) in the Third World Conference on Sinology from 3rd to 5th November 2012 in Renmin University, Beijing.
5. Presented a paper on "18th National Congress of the Communist Party of China: 5th Generation of Leaders to take Control of the People's Republic" at Cheena Bhavana on 5th October, 2012.
6. Presented a paper on "An Account of Indian Scholars in China during Tang Dynasty" in the Fifth All India Conference of China Studies organised by Institute of Chinese Studies, New Delhi in collaboration with Cheena Bhavana, Visva-Bharati held on December 15-16, 2012 at Santiniketan
7. Presented a paper on "Tagore's Visit to China: A Historical Event in the Annals of Indo-China Relations" in the International Conference on "Tagore and His Global Vision: Forging Bonds with the World" held on January 14-15, 2013 organised by the Department of History, Visva-Bharati, Santiniketan under the auspices of the ICSSR, ICHR and Visva-Bharati
8. Presented a paper on "Impact of Geetanjali on the Chinese poets" in the National Seminar on "Impact of Geetanjali on Indian Literature" organized by Department of Odia, Visva-Bharati in collaboration with Sahitya Academi, New Delhi on March 1-2, 2013.
9. Presented a paper on "Reception of Buddhism in China" in the 3 Day National Seminar on "Prospective of Buddhist Studies" organized by Centre for Buddhist Studies, Visva-Bharati on March 23-25, 2013.

Academic Visit:

Visited Yunnan Academy of Social Sciences, Kunming, China on 19th June, 2012 and discussed issues of academic cooperation.

Publication

1. "Role of Cheena Bhavana in India's Chinese studies" in the book entitled "On China by India from Civilization to Nation-State" edited by Chih-yu Shih, Swaran Singh, and Reena Marwah Published 2012 by Cambria Press in Amherst, NY.
2. Translation of Wang Bangwei's paper "History of Sino-Indian Friendship and the Ideal of World Peace" in Wang Shuying & B R Deepak (ed.) India -China Relations: Civilizational Perspective, Manak, New Delhi(2012)pp7-13

Atreya Bhatta

Seminar/Conferences/Workshop

Attended the International Conference on Chinese Studies Organized by the Institute for Chinese Studies, New Delhi at Visva-Bharati on 15th - 16th December, 2012 and Presented a Paper entitled "The Impact of the May Thirtieth Movement on Chinese Literary Thought".

Extension activities/NSS/Cultural and other activities

On 28th February, 2012 a forty member delegation of Jilin Provincial Art Troupe, China visited Visva-Bharati and performed the Chinese Cultural programme (Spring Festival - 2012) at Natyaghar, Visva-Bharati.

Academic distinctions

Designing New Course/Curriculum or any other teaching innovations introduced

Memorandum Of Understanding between Visva-Bharati and Yunnan :

In order to encourage contact and cooperation between the faculty members, departments and other affiliated institutes and programmes, Visva-Bharati and Yunnan University, Kunming, China signed an MOU in July, 2011. Under this MOU, three Chinese teachers are taking part in the teaching and research programme of the department. The MOU had also provision for exchange of students and faculty between the two universities.

A brief history on the development of Vibhaga with the indication of the future plans for development : -

Cheena-Bhavana (Department of Chinese Language and Culture) was established by Gurudeva Rabindranath Tagore and

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Prof. Tan Yun-Shan on 14th April 1937 with great ideas of strengthening the age old culture relation and interfaces between India and China through personal contacts and investigations into the history of interrelationship between the two countries. Its establishment was in partial fulfillment of Gurudeva's desire for undertaking collective research work on different aspects of International cultural studies by the great minds of the modern world and for spreading the noble message of universal friendship and brotherhood among the people of the world. The untiring zeal and effort of Professor Tan Yun-Shan with the constant inspiration from Gurudeva Rabindranath Tagore opened up a new vista of Sino-Indian cultural Fellowship in India and in the entire world to some extent.

Cheena-Bhavana was thus envisaged by Gurudeva to grow up as an advanced center of research. The aim and objectives of the Cheena-Bhavana were spelt out as follows:

1. To conduct research studies in Indian and Chinese Learning.
2. To promote interchange of Indian and Chinese cultures.
3. To cultivate friendship and fraternity between the two nations of India and China.
4. To join and unite the people of India and China.
5. To promote jointly, universal peace and harmony of humanity.
6. To help in building up "The Great Unity" of the world.

The Cheena-Bhavana library is the best of its kind in preserving Chinese books and journals in whole South Asia with its treasure house of over fifty thousand rare and invaluable books. It is a special feature, a rare treasure not only to the Visva-Bharati University but also to the entire nation.

Any other relevant information

Chronology of the Visit of delegations to Cheena-Bhavana during April 2012 to March 2013

His Excellency, Mr Zhang Yan, Ambassador of the People's Republic of China to India visited Cheena Bhavana and had a discussion with Vice Chancellor on 22nd April 2012.

24.09.2012- Seven members Delegation from the Department of Shanghai Municipal Archives visited Cheena-Bhavana, Visva-Bharati.

16.01.2013- Eighteen members Student Delegation from Yunnan University, China visited Visva-Bharati University

02.02.2013- Six members Delegation from Bangladesh visited Cheena-Bhavana, Visva-Bharati.

07.03.2013- Three members Delegation from Shenyang Normal University, Shenyang, China to visit Cheena-Bhavana, Visva-Bharati, to interact with the Students & Teachers of Cheena-Bhavana, Visva-Bharati.

CENTER FOR BUDDHIST STUDIES (CBS)

Nobel Laureate Rabindranath Tagore favored to open educational departments for study and research in Buddhism through languages like Sanskrit, Pali, Chinese and Tibetan. The invitation of Sylvian Levi in 1921 to Santiniketan may be termed as the beginning of academic and scientific study and research of Buddhism at Visva-Bharati of which Tagore was a student himself. The CBS was established under the UGC "Scheme of Epoch Making Social Thinkers in India" in 2005. The Centre was able to start its activities only in 2007. The CBS, which was separated from the Department of Indo-Tibetan Studies earlier, has been brought back again under Department w.e.f. 29-06-2012. It is an inter-disciplinary and inter-departmental educational forum. The activities of the CBS include, among others, the followings:

1. Special Lecture on specific fields of Buddhist studies. Buddhist Art and Architecture, 2012; A Special Lecture Series on 7- 30 March 2013.
2. International seminar/conference/workshop on various topics of Buddhism: Gurudeva's Chandalika in Tibetan, 2012; Sahaja-The Role of Doha & Caryagiti in the Cultural Indo-Tibetan Interface, 2012; Prospective Scope of Buddhist Studies, 23-25 March, 2013.
3. Exhibition on Buddhist art and culture: Sahaja Arte - Sahan Qadri, 2012.
4. Organizing dramas and film shows on Buddhism: Gurudeva's Chandalika in Tibetan, 2012
5. Publication: Tantrik Literature & Culture, Buddhist World Press, Delhi, 2012; Gurudeva's Chandalika in Tibetan, 2012-Abstract book; Sahaja-The Role of Doha & Caryagiti in the Cultural Indo-Tibetan Interface, 2012-Abstract book.

VIDYA-BHAVANA (Institute of Social Sciences)

Vidya-Bhavana, came into existence in July, 1919 soon after Gurudev solemnized the establishment of the Visva-Bharati in December, 1918. It started functioning under the name of Uttarvibhaga – the department of advanced studies.

Vidya-Bhavana, the Institute of Humanities and Social Sciences, was conceived as an Institute of Higher Studies and Research, and has always occupied a key position in Visva-Bharati. The eminent scholar and Adhyapaka Bidhusekhar Shastri testified that this nomenclature evolved out of a positive idea, learning (Patha) leads to education (Shiksha), mentioned in the pages of the Santiniketan Patrika of Magha 1332 BS and the date of the Institutes informal inaugural was also 8 Paush of 1325 BS (Last week of Dec. 1925).

Vidya-Bhavana is now a major faculty of the University with six major departments [Philosophy and Comparative Religion, History, Geography, Ancient Indian History Culture & Archaeology, Economics & Politics, Anthropology and Education.

A large number of foreign students are also regularly coming to enrol themselves in different courses at Vidya-Bhavana.

DEPARTMENT OF ECONOMICS AND POLITICS

Brief History of the Department and its Future Plan

The Department of Economics & Politics began its journey as a separate department in 1953 under Siksha-Bhavana (Institute of Science). Later, it came under Vidya Bhavana (Institute of Social Sciences) and the first batch of post-graduate students came out in 1958 and the first Ph.D was awarded in 1969.

From the very outset, the department focused on empirical research in the area of agriculture and rural development. The faculty of the department distinguished themselves in research on areas including land tenure, farm management, agrarian productivity and rural poverty. Much of this research was carried out in collaboration with the well-known Indian and international economists, as well as with other departments/centres of Visva-Bharati like Agro-Economic Research Centre, Santiniketan and has won recognition in India and abroad.

While the principal focus remained the same throughout, the research interests of the department gradually broadened to include the areas of planning, economic development in general, participatory rural development, macroeconomics, international trade, political economy and environment-resource economics. In recognition to its research activities in these areas, the Planning Commission of India has provided the Department with an endowment of Rupees thirty lakhs to set up a unit on Planning and Development (Planning Unit) and for setting up a Chair as well as carrying out research and other related activities. The Planning unit has recently been renamed as 'A K Dasgupta Centre for Planning and Development' by Visva-Bharati with the approval from the Planning Commission. The University has planned to relocate this Centre from the Department of Economics & Politics to the former residence of Late Professor A. K. Dasgupta (Address: Nirala, 33 PurbaPalli, Santiniketan) donated by Professor Lord Partha Dasgupta, Frank Ramsay Professor, University of Cambridge and Dr. Alakananda Patel, son and daughter of Professor Dasgupta respectively.

The Department is now adopting various new plans of diversifying academic activities. The thrust area of research has been identified as Agriculture, Environment and Rural Development. The Department is aspiring to be promoted to DRS-II stage of SAP with more infrastructural facilities and space provided to it from the appropriate authority.

No of Students qualified in NET/SLET: 04

Departmental Seminar:

Following Departmental seminars/invited special lectures have been organized by the Department during the last one year:

[In collaboration with A.K. Dasgupta Centre for Planning and Development]

1. Professor Avijit Sen, Member, Planning Commission, Government of India delivered a special lecture "Are Poverty measures useful to allocation of Public Resources?" on 22nd September, 2012.
2. Professor Jayati Ghosh, Centre for Economic Studies & Planning, Jawaharlal Nehru University, New Delhi delivered a special lecture "Social Spending as a means of Rural Employment Generation" on 22nd September, 2012.

[With financial assistance from UGC-SAP (DRS-I)]

3. Sayan Banerjee, Doctoral Student & Graduate Research Assistant, Department of Political Science, Georgia State University, Atlanta, GA & Visiting fellow, Institute of Foreign Policy Studies, University of Calcutta delivered a talk on "Regionalism and Ethnic Politics in the context of Rural Development in India, on 21st July, 2012.
4. Swami Chetananda, Minister In Charge, Vedanta Society, St. Louis, USA, delivered a talk on "Swami Vivekananda and our Society" on 23rd February, 2013.
5. Dr. Parthapratim Pal, Associate Professor, IIM Kolkata, delivered a seminar titled "Financial Crisis to Food Crisis: Making of the Silent Tsunami" on 1st March, 2013.

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6. Dr. Saubhik Deb, Consultant, SASDU, World Bank, delivered a seminar titled "The Killing Fields: Food Policy and Food Security in India" on 1st March, 2013.
7. Dr. Mihir Bhattacharya, Professor Emeritus, Film Studies, Jadavpur University delivered a seminar titled "Media and Primitive Accumulation" on 4th March, 2013
8. Dr. Atulan Guha, Faculty in Institute of Rural Management, Anand (IRMA, Gujarat), delivered a special lecture titled "Agricultural Wage Causing Food Price Increase" on 22nd March, 2013.
9. Dr. Maitrayee Mukerji, Assistant Professor, Centre for Studies in Social Management, School of Social Sciences, Central University of Gujarat, Gandhinagar, delivered a seminar titled "Access, Use and Impasse of E-Choupal: Findings from Village Level" on 22nd March, 2013.
10. Prof. Amiya Kumar Bagchi, Professor Emeritus, Institute of Development Studies, Kolkata (IDSK) delivered a special lecture titled "Global Crisis and Economics of India and China" on 17th March, 2013. It was the Valedictory for the two-day National Seminar on "Economics and Development: Theory and Practice", organized by the Department.

National Conference/Seminar organized by the Department

Following Four National/Regional Conferences/Seminars have been organized by the Department during the last one year:

1. National Seminar on "Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization" organized by the Department of Economics & Politics in collaboration with A.K. Dasgupta Centre for Planning and Development on 23rd November, 2012.
2. National Seminar on "Challenges in Agriculture, Environment and Rural Development in West Bengal since Independence" organized by the Department of Economics & Politics, under UGC-SAP (DRS-I) scheme during 15-16 March, 2013.
3. "Economic Ideas: Seminar in memory of Prof. Asis Dasgupta" organized jointly by Bangiya Arthaniti Parishad and Department of Economics & Politics on 16th March, 2013.
4. National Seminar on "Economics and Development: Theory and Practice" organized by the Department of Economics & Politics during March 16-17, 2013.

Participation in National/International Conferences/Seminars/Workshops by the teaching faculty of the Department during last one year is listed below:

Madhusudhan Ghosh

1. Presented a paper in the Annual Conference of the Indian Association for Research on National Income and Wealth, held at Indian Statistical Institute, Kolkata, March 15-16, 2013.
2. Presented a paper in the National Workshop on Balanced Regional Development: Challenges and Way Forward, organized by Rajiv Gandhi Institute for Contemporary Studies, New Delhi, February 8, 2013.
3. Presented a paper and chaired a session in the National Seminar on Inequality in Post-reform India: Measurement and Policy Issues, organized by N.K. Choudhury Centre for Development Studies, Bhubaneswar (Odisha), September 28-29, 2012.
4. Presented a paper and acted as a discussant in the 4th GREThA/GRES International Conference on Economic Development, organized by University of Bordeaux IV, Bordeaux, France, June 13-15, 2012.

Sarbajit Sengupta

1. Participated as a Panel Discussant in the 2nd Workshop on Economic Growth in West Bengal, organized by Sampling and Statistical Unit, Indian Statistical Institute, Kolkata during January 7-8, 2013.
2. Participated in the International Conference on Fiscal Compulsions and Monetary Policy organized by the Centre for Training and Research in Public Finance and Policy, at Centre for Studies in Social Sciences, Kolkata, 18-19 February, 2013.
3. Chaired a technical session in the State Level Seminar on Economic Theory And Applications organized by West Bengal State University and Vidyasagar University, at West Bengal State University, Barasat during March 7-8, 2013.

5. Chaired a technical session in the National Conference on Emerging Issues in International Trade: Theory and Empirics, organized by The Centre for Advanced Studies, Department of Economics, Jadavpur University, at Jadavpur University Kolkata during March 21-22, 2013.

Pranab Kumar Chattopadhyay

1. Chaired a session in the International Conference on Development, Environment and Sustainable Livelihood, organized by the University of Burdwan during January 18-19, 2013.

Sudipta Bhattacharyya

1. Chaired a technical session and participated as convener in the National Seminar on Economics and Development: Theory and Practice, organized by the Department of Economics & Politics, Visva-Bharati, during March 16-17, 2013.
2. Participated in presentation of a jointly authored paper titled "What Happened to Rural Credit? From Bank Nationalization to Liberalization, West Bengal and India" (co-authored with Maumita Bhattacharyya and Nikhil Kumar Mandal) in the National Seminar on Challenges in Agriculture, Environment and Rural Development in West Bengal since Independence', organized by Department of Economics and Politics under UGC SAP (DRS-I), Visva-Bharati, Santiniketan, during March 15-16, 2013.
3. Presented a paper titled "A Critical Look at Two Decades of Market Reforms in India" in the National Seminar on Science, Society and Planet Earth organized by Indian Academy of Social Sciences, Bhubaneswar, during December 27-31, 2012.
4. Presented a paper titled "Political Economy of Agrarian Crisis and Climate Change" in the National panel discussion on Agrarian Crisis, Climate Change and State Response, organized by Rosa Luxemburg Stiftung, New Delhi, on 14th December, 2012.
5. Presented a paper titled "Neo-liberalism, Weakening State and Peasant Differentiation in Indian Agriculture" in the National Seminar on Agrarian Crisis: The Way Out organized by the National Institute of Rural Development, Hyderabad, during November 5-7, 2012.

Pranab Kanti Basu

1. Delivered two lectures titled "International Economic Organisations" and Globalization at the UGC-sponsored Refresher Course organized by the Department of Economics, in collaboration with Academic Staff College Calcutta University on January 3, 2013.
2. Delivered a lecture titled "Governmentality" at the UGC-sponsored Refresher Course organized by the Department of Economics in collaboration with Academic Staff College Calcutta University, on January 6, 2013.
3. Chaired a technical session and participated as convener in the National Seminar on Economics and Development: Theory and Practice organized by the Department of Economics & Politics, Visva-Bharati, during March 16-17, 2013.

Apurba Kumar Chattopadhyay

1. Presented an invited lecture on "India's Development Experience during the Post-reforms Period: Some Observations" at the Centre for Contemporary Indian Studies, University of Colombo, Sri Lanka on 11th June, 2012.
2. Presented an invited lecture on "Higher Education: Issues Related to Quality & the Role of the Stakeholders" in the NAAC sponsored Seminar on Role of Students in Quality Assurance of Higher Education at SR Lahiri Mahavidyalaya, University of Kalyani, on 29th November, 2012.
3. Presented an invited lecture on "Performance of Agriculture and Rural Income Distribution in West Bengal in the Post-reforms Period" in the NABARD sponsored Seminar on Agrarian Economy of West Bengal at Rabindra Bharati University, Kolkata on 27th February, 2013.
4. Participated in the UGC-SAP (DRS-1) sponsored National Seminar on Challenges in Agriculture, Environment and Rural Development organized by the Department of Economics & Politics, Visva-Bharati during March 15-16, 2013.

Santadas Ghosh

1. Presented a paper titled "Extreme Event, Livelihood Loss and Adaptation Strategies: Evidence from Indian Sundarban delta" in the Regional Conference on Climate Change Adaptation in Coastal Areas organized by The Centre for Coastal

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Environmental Conservation (CCEC) in Bangladesh and WWF - Pakistan during 16-17 October, 2012 in Dhaka, Bangladesh,

2. Presented a paper titled "Cyclone disaster and livelihood coping in Sundarban: Reversible Damage and Irreversible Changes" in the 25th Biannual Research and Training Workshop organized by South Asian Network of Development and Environmental Economics (SANDEE) during 12-15 December, 2012 in Kathmandu, Nepal.
3. Delivered a series of lectures as a resource person on Research Design, Sampling Questionnaire Designing, Survey Implementation Challenges in the International Winter School in Research Methods organized by South Asian Network of Development and Environmental Economics (SANDEE) during 14-16th January, 2013 in Dhulikhel, Nepal.
4. Delivered a lecture as a resource person on "Introduction to STATA" at the UGC-sponsored Short Term Course on Research Methodology organized by the Department of Economics in collaboration with Academic Staff College, University of Calcutta on March, 19, 2013.
5. Delivered a lecture as a resource person on "Statistical Analysis Using STATA" at the UGC-sponsored Short Term Course on Research Methodology organized by the Department of Economics, in collaboration with Academic Staff College, University of Calcutta, on March 23, 2013.

Saumya Chakrabarti

1. Presented a paper titled "Formal-informal relation: duality/complementarity or conflict?" at the Symposium on Globalization and Development in Honour of Kalyan K. Sanyal organized by the Department of Economics, Jadavpur University, Kolkata during April 19-20, 2012.
2. Presented a paper titled "Formal-informal relation: duality/complementarity or conflict?" in the 4th International Development Conference - GREThA/GRES, Bordeaux University-IV, France; 13-15 June 2012.
3. Presented a paper titled "National rural employment guarantee scheme of India: some overriding theoretical constraints/ Interrogating inclusive growth", in the 16th Annual Conference of Indian Political Economy Association, Indian Institute of Technology - Roorkee; 26-27 October 2012.
4. Presented a paper titled "Formal-informal relations: growth with exclusion / A problem of sustainable development" in the International Conference on Inequality and Sustainability, The Fletcher School, Tufts University, USA; 9-10 November, 2012.
5. Presented a paper titled "Unorganised manufacturing in India: structural transformation / exclusion / marginalisation?" in the 22nd Annual Conference, Department of Economics, Jadavpur University, Kolkata, 3-4 January 2013.
6. Presented a paper titled "Informal manufacturing in India: inclusion / marginalisation?" in the International Conference on Representing Development: the Process and Role of Informalisation, Galgotias University, Delhi, 8 February 2013.
7. Attended the Workshop on Latin American Advanced Programme on Rethinking Macro and Development Economics (Laporde) at the Sao Paulo School of Economics, Sao Paulo, Brazil; 7-11 January, 2013.

Amit K Biswas

1. Presented paper titled "Economic Policy and Misinvoicing of Imports under Oligopoly" in the National Conference on Emerging Issues in International Trade: Theory and Empirics organized by Centre for Advance Studies, Department of Economics, Jadavpur University, Kolkata during 21 - 22 March, 2013.

Biswajit Mondal

1. Presented a paper titled "FDI, Vanishing Sector and Income Distribution in a Corrupt Economy" in the National Seminar Centre for Management Studies, JIS group of Colleges, India during 27- 28 April, 2012.
2. Presented a paper, as an invited speaker, titled "Economic Reform, Informal Sector and Extortion" in the Golden Jubilee Seminar on Basic Concepts and Applications of Mathematics, Economics and Statistics in Behala College, Kolkata on 26th September, 2012.
3. Presented a paper titled "Inflow of Educational Capital, Skill Formation and Informal Sector", as a resource person in UGC sponsored National seminar on Deprivation in Backward Areas: Food, Shelter, Health and Knowledge in Panchakot Mahavidyalaya & Raghunathpur College, India during 6-7 December, 2012.

4. Presented a paper titled "Trade Reform, Intermediation and Corruption" in the EIITF International Conference on Empirical Issues in International Trade and Finance at Indian Institute of Foreign Trade, Kolkata Campus, during 10-11th January, 2013.
5. Presented a paper titled "Trade Reform, Extortion and Informal Sector" in the Annual Conference of Bengal Economic Association at Netajinagar Day College, Kolkata during 23-24 February, 2013.

Achiransu Achrayya

1. Presented a paper titled "Groundwater irrigation in West Bengal: Opportunities for adaptation and mitigation to climate change" in the National Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustainance organized by Institute of Agriculture, Visva Bharati in collaboration with International Plant Nutrition Institute at Visva Bharati, Sriniketan during 1-3 September, 2012.
2. Participated and presented a paper titled "Groundwater Markets in West Bengal and the question of Sustainability" at the Workshop on Planet, People or Profit? The Perilous Passage and the Capitalist Transformation of the Natural World organized by the Institute of Development Studies, Kolkata and funded by the Indian Council of Historical Research at Institute of Development Studies, Kolkata during 10-14 September, 2012.
3. Presented a paper titled "Groundwater Scarcity, Climate Change and the Question of Food Security: Addressing the Indo China Common Problem" in The Second Interdisciplinary Symposium for Emerging Scholars on China India Studies organized by The India China Institute, The New School, New York in partnership with the Centre for Policy Research, New Delhi and the Department of East Asian Studies, University of Delhi and Centre for East Asian Studies, Jawaharlal Nehru University, New Delhi at University of Delhi during 2-3 November, 2012.
4. Participated at the Silver Jubilee International Conference on Development: Successes and Challenges, Achieving Economics, Social and Sustainable Progress organized by Indira Gandhi Institute of Development Research (IGIDR) in Mumbai, India at IGIDR, Mumbai during 1-3 December, 2012.
5. Presented a paper titled "Sustainability of Groundwater in South Asia" in the Third NITTE International Conference on Development Challenges: Global Aspirations and Local Realities organized by Justice K.S Hegde Institute of Management, NMAMIT, NITTE in association with The School of Social Policy and Practice, University of Pennsylvania, USA, Erasmus Centre for Strategic Philanthropy, The Netherlands, Makerere University Business School, Uganda and Penn State Harrisburg, USA at the Justice K.S Hegde Institute of Management, NMAMIT, NITTE, Karnatak, India during 29-30 December, 2012.
6. Presented a paper titled "Water Crisis and Towards Sustainable Development in West Bengal: A Socio Economic Viewpoint" at the State level seminar on Literature and Natural Resources organized by Centre for Development Studies and Research, at Krishnanagar, Nadia, West Bengal on 13th January, 2013.
7. Participated and successfully completed the UGC sponsored Refresher Course in Economics organized by the Academic Staff College and University of Calcutta during 2-22 January, 2013.

Biswajit Haldar

1. Presented a paper titled "General Education: Reflections on Past Present and Future" in NAAC Sponsored State Level Seminar on Role of Students in Quality Assurance of Higher Education organized by Internal Quality Assurance Cell, Sudhirranjan Lahiri Mahavidyalaya in Nadia during 13-14 December, 2012.

Somnath Bandyopadhyay

1. Presented a paper titled "Rural Development Through MGNREGS: A Survey Of Some Selected Gram Panchayats in West Bengal" in the National Seminar on Challenges in Agriculture, Environment and Rural Development in West Bengal since Independence' organised by the Department of Economics & Politics, Visva-Bharati during 15-16 March, 2013.

Kaberi Pal

1. Presented a paper titled "Education in a Backward Region: A Block Level Study of Purulia District in West Bengal" in the National Seminar on Challenges in Agriculture, Environment and Rural Development in West Bengal since Independence organised by the Department of Economics & Politics, Visva-Bharati during 15-16 March, 2013.

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Sushovan Hazra

1. Presented a paper titled "Winning card for Indian Agriculture-Microfinance or Bank Credit : Contemporary debate on Developmental Aspect" in the National Seminar on Challenges in Agriculture, Environment and Rural Development in West Bengal since Independence organised under the UGC SAP (DRS I) programme of the Department of Economics and Politics, Visva Bharati, Santiniketan during 15-16 March, 2013.

Rajiv Dey

1. Presented a paper titled "Problem of Farm Viability, Poverty and Agrarian Crisis: A study of West Bengal" in the National Seminar on Agrarian Crisis in India: The way out organised by NIRD in Hyderabad during 5-7 November, 2012.
2. Presented a paper titled "Depeasantisation or Rural Proletarianization" in the National Seminar on Challenges of Livelihood and Inclusive Rural Development in the Era of Globalisation organised by the A.K. Dasgupta Centre for Planning and Development, Department of Economics and Politics, Visva-Bharati, Santiniketan on 23rd November, 2012

Ongoing Research Projects in the Department:

Following is the details of research projects that have been ongoing/started during last one year:

Sl. No.	Title of the Project	Sponsoring Agency	Amount sanctioned (Rs.)	Status (ongoing for/ completed)
1	An Economic Analysis of Groundwater Markets in West Bengal (Achiransu Acharyya)	U.G.C	Rs. 1,30,000	Completed and Submitted
2	Rural Non-Farm Employment: Characteristics and Determinants (Apurba Kumar Chattopadhyay & Saumya Chakrabarty)	UGC (SAP)	1,31,412	Completed and Submitted
3.	Stagnation of the Agrarian Economy: An Enquiry into Its Nature and Causes In Five Central Districts of West Bengal During 1999-2000 to 2009-10 (PI: Apurba Kumar Chattopadhyay Co-I: Biswajit Haldar)	UGC	6,49,600	Started
4	A Comparative Study of the Methods and Impacts of Employment Guarantee Schemes across Global South: Inclusion or Elite Capture?	Brown International Advanced Research Institute (BIARI) Alumni Research Grant-2012,	2,00,000 (approx.)	Ongoing

Apurba Kumar Chattopadhyay

- Joined the Centre for Contemporary Indian Studies, University of Colombo, Sri Lanka as Visiting Chair Professor for Indian Studies in April 2012 and continued in the said post till July 2012

Saumya Chakrabarti

- Awarded the ICSSR Travel-Grant to visit The Fletcher School, Tufts University, USA, November, 2012.
- Won the D.K. Desai Award 2012 conferred by the Indian Society of Agricultural Economics.

Publications: a) By the Teachers:

Following is the list of publications that had come up during last one year and authored by the teaching faculty of the Department:

Madhusudhan Ghosh

Book:

1. Liberalization, Growth and Regional Disparities in India, Springer, New Delhi/ Heidelberg/New York/Dordrecht/ London, 2013. ISBB : 978-81-322-0980-5

Articles:

1. Regional Divergence and Club Convergence in India, Economic Modelling 30 (January), 2013, 733-742. (Co-authors: A. Ghoshray and I. Malki). ISSN 0264-9993
2. Micro-finance and Rural Poverty in India: SHG-Bank Linkage Programme, Journal of Rural Development 31(3) 2012, 347-363. ISSN : 0970-3357
3. Regional Economic Growth and Inequality in India during the Pre- and Post-reform Periods, Oxford Development Studies 40(2) 2012, 190-212.
4. Inclusive Growth, Employment and Poverty in Rural India, Journal of Income and Wealth, 34(1), 2012, 15-29. ISSN 0974-0295

Pranab Kumar Chattopadhyay

1. (Edited) Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization, (with Sudipta Bhattacharya) published by New Delhi Publishers, New Delhi, November, 2012, ISBN No.9789381274255.
2. (Edited) Inclusion and Empowerment: Essays on Some Aspects of Rural Development, published by New Delhi Publishers, New Delhi, March, 2013, ISBN No.9789381274392
3. Edited the Working paper-1 of A K Dasgupta Centre for Planning and Development, published by New Delhi Publishers, New Delhi, November, 2012, ISBN No.9789381274309
4. Keynes and Mercantilism in D N Bhattacharya (ed) Indian Economic Development, Regal Publications, New Delhi, 2012, ISBN No.978-81-8484-167-1.
5. Education and Women Empowerment: A Case Study of Kalna Subdivision of West Bengal (with Bikash Saha and Prabir Karar) in P K Chattopadhyay (ed) Working paper-1 of A K Dasgupta Centre for Planning and Development, published by New Delhi Publishers, New Delhi, November, 2012, ISBN No.9789381274309.
6. An enquiry into the Scope of Sustainable Promotions of Tribal Livelihood and Education with Environmental Stability in West Bengal (with Arun Kumar Mondal) in P K Chattopadhyay (ed), Working paper-1 of A K Dasgupta Centre for Planning and Development, published by New Delhi Publishers, New Delhi, November, 2012, ISBN No.9789381274309
7. Development of Forest Resources and Tribal Economy in P K Chattopadhyay (ed) Inclusion and Empowerment: Essays on Some Aspects of Rural Development, New Delhi Publishers, New Delhi, March, 2013, ISBN No.9789381274392
8. Role of Education in Women Empowerment: A Case Study of West Bengal (with Bikash Saha and Prabir Karar) in P K Chattopadhyay (ed) Inclusion and Empowerment: Essays on Some Aspects of Rural Development", New Delhi Publishers, New Delhi, March, 2013, ISBN No.9789381274392

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Sudipta Bhattacharyya

Book:

1. (Co-edited with Pranab Kumar Chattopadhyay) *Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization*, New Delhi: New Delhi Publisher, 2013, ISBN: 978-93-81274-25-5.

Articles:

1. Political Economy of Agrarian Crisis and Slow Industrialization in India', (Co-authors: Mathew Abraham and Anthony D'Costa), Copenhagen Discussion Paper, No.40, 2013. Copenhagen Business School, Denmark.
<http://openarchive.cbs.dk/bitstream/handle/10398/8642/CDP%202013-40%20samlet.pdf?sequence=>
<http://www.visva-bharati.ac.in/Projects/Economics-Working%20Paper%206.pdf>
2. Neo-liberalism, Weakening State and Peasant Differentiation in Indian Agriculture, in Conference Volume of the National Seminar on 'Agrarian Crisis: The Way Out' organized by National Institute of Rural Development, Hyderabad, 5-7 November 2012. pp. 582-95.

Saumya Chakrabarti

1. National rural employment guarantee scheme of India: some overriding theoretical constraints / Interrogating inclusive growth (co-authored by A. Mukherjee), Conference Proceedings of the 16th Annual Conference of the Indian Political Economy Association, 2012.
2. National rural employment guarantee scheme: certain theoretical constraints (co-authored by A. Mukherjee), Working Paper Series, Volume - 1 (ISBN: 9789381274-30-9), A.K. Dasgupta Centre for Planning and Development, Visva-Bharati, Santiniketan, India; New Delhi Publishers, India; 2013.
3. National rural employment guarantee scheme of India: some conceptual problem (co-authored by A. Mukherjee), International Critical Thought; Chinese Academy of Social Sciences and Routledge, UK, Volume 3, Issue 1 pp. 1-19 DOI: 10.1080/21598282.2013.761441.

Amit K Biswas

1. The Problem of Choosing True Trade Statistics: The 'Actual' - 'Official' Puzzle, (accepted), Journal of Modern Accounting and Auditing, David Publishing Company, USA, 2012.
2. Import Tariff Led Export Under-invoicing: A Paradox, Journal of International Trade and Economic Development, Vol. 21/3, 2012 (Rutledge).

Biswajit Mondal

1. Capital Inflow, Vanishing Sector and Wage Distribution in an Economy with Corruption related Intermediation (with Sugata Marjit), Economics Bulletin, 32(3), pp 2128-2135.
2. Environmental Consideration, Trade Reform and Intermediation: A Theoretical Note, PANCHAKOTESSAYS 3(1), 2012, pp 84-92.
3. Domestic Trading Costs in Pure Theory of International Trade, (with Sugata Marjit) International Journal of Economic Theory, 2012, 8 (2), pp 165-178

Soumyadip Chattopadhyay

1. Trend and pattern of rural fiscal decentralization in India, Journal of Economic Policy and Research, (A Bi-annual Journal of IPE Hyderabad), Vol 8 No1, Oct2012-March2013, 156-179

Achiransu Acharyya

1. 'Kashmir: Kichu Dekha, Kichu Katha', pages 81 to 91, Article published in the Bengali Journal 'ANTORJATIK PATHSHALA', January to March 2012. ISSN 2230-9594
2. 'Paribesh O Arthaniti'. Pages 93 to 98, Article published in the Bengali Journal 'ANTORJATIK PATHSHALA', April to June 2012. ISSN 2230-9594.

Publications: b) By the Research Scholars:

Following is the list of publications that had come up during last one year and authored by the research scholars of the Department:

Somnath Bandyopadhyay

1. MGNREGS and Balanced Development: A Critical Analysis, Open Eyes, Vol.8 (1&2), December 2012. ISSN No. 2249 -4332.

Raj Kumar Kundu

1. An Alternative Way of Canal Irrigation and its Importance in India: With Special Reference to Kerala & Maharashtra, Open Eyes, Vol.8 (1&2), December 2012. ISSN No. 2249 -4332.

Rajiv Dey

1. Depeasantisation or Rural Proletarianization, in Sudipta Bhattacharyya and Prof Pranab Kumar Chattopadhyay (eds) Challenges of Livelihood and Inclusive Rural Development in the Era of Globalisation, New Delhi Publishers, New Delhi, 2013, Vol I, pp 75-93

Designing New Course/ Curriculum introduced by the Department:

Other Relevant Information on the Department:

- The A. K. Dasgupta Centre for Planning and Development, hosted by the Department has published four Working Papers and three books within last one year. The contributors included both the faculty of the Department as well as academicians from other institutions.
- The UGC-SAP (DRS-I) Programme in the Department has run successfully and enabled the Department to host a large number of Visiting Faculty from premier institutions in India and abroad during last year. As many as seven such economists and scholars had visited and delivered Departmental seminar/talk on various contemporary issues.
- Also, under UGC-SAP (DRS-I) Programme, seven Working Papers have been published during this period.

DEPARTMENT OF GEOGRAPHY

Department of Geography was established in the late sixties (1968) with only 3 years undergraduate honours course. Subsequently, the two years post-graduate course was introduced in 1978 with a total capacity of approx. 30 students in each year. Besides, the department also conducts researches leading to Ph.D degree since late eighties.

Keeping in mind the present developmental trends in Geography, the department in recent years has paid attention particularly to the following thrust areas like water resources management, landscape ecology, population & settlement, infrastructures development, urban & regional planning and development etc along with the existing course curriculum. The department also feels that the installation of modern systems are required for collecting, processing and displaying the spatial and non-spatial data with the development of remote sensing applications and introduction of Geographical Information System (GIS).

No. of the students qualified in UGC/CSIR/NET/SLET and GATE Examination:

UGC (JRF) - 5

NET - 9

Conference/Seminar/Workshop/Exhibition etc attended by Teacher/Research scholars in details.

Parbati Nandi:

" Nominated as Visiting Fellow under UGC-SAP-DRS Programme of Burdwan University and delivered lectures on 22 and 23 March 2013 at the Department of Geography, Burdwan University. Participated as a keynote speaker on "Status of women in Rural Areas of Birbhum District"

Guru Prasad Chattopadhyay:

Seminars Attended with papers

Silver Jubilee Conference of the "Indian Institute of Geomorphologists and National Conference on Upgrading Technologies and Degrading Earth's Environment" during 22-24 December 2012. Hosted by: Department of Geography, Allahabad University, Allahabad

Title of the Paper Presented: EXTENT OF PERIGLACIAL LANDFORM FEATURES IN THE HIGH ALTITUDE HIMALAYAN REGION AND THEIR PALEOCLIMATIC SIGNIFICANCE

International Conference of the Geographical Union on "Geoinformatics for Biodiversity and Climate Change" during 14-16 March 2013). Hosted by: M.D. University, Rohatak, Haryana.

Title of the Paper Presented: CLIMATE CHANGE AND ITS IMPACT ON THE GLACIAL AND PERIGLACIAL ENVIRONMENT IN THE HIMALAYA: SOME OBSERVATIONS AND ANALYSES.

Invited Lectures delivered in Seminars and Conferences

UGC-sponsored National Seminar on "Climate Change and Green Economy with reference to India" on 5th and 6th June, 2012. at Jaipur.

Title of the Lecture: CHANGES OF GLACIAL ENVIRONMENT AROUND THE SOUTHEAST-FACING SLOPES OF KANCHENJUNGA IN THE SIKKIM HIMALAYA: AN ASSESSMENT OF THE IMPACT OF GLOBAL WARMING ON THE GLACIERS

National Seminar on "Himalaya: Environment and Development" on 10.11.2012. Hosted by: Himalaya Samiksha Parisad, Ballygunj Science College, Kolkata

Title of the Lecture: FROM TERAI TO KANCHENJUNGA: MARVELS OF THE EASTERN HIMALAYA

National Seminar on "River, Flood and Sustainable Resource Management" on 23rd February 2013

Hosted by: Department of Geography, Gour Banga University, Maldah

Title of the lecture: GLACIAL LAKE OUTBURST FLOOD: A REPORT FROM THE KANCHENJUNGA AREA OF THE SIKKIM HIMALAYA

Training Course on "Disaster Management" (For The University And College Teachers) On 09.03.2013, Hosted By: Burdwan University Academic Staff College, Burdwan

Titles of the Lectures: 1) DISASTER AND DISASTER MANAGEMENT: AN OVERVIEW, and 2) GEOPHYSICAL HAZARDS AND DISASTERS IN THE HIGH ALTITUDE HIMALAYAN REGION.

National Seminar on "Climate Change and Environmental Impact Assessment (Indian Perspective)" on 21st and 22nd March 2013. Hosted by: Netaji Institute for Asian Studies. Venue: Netaji Institute for Asian Studies, Govt. of West Bengal, Kolkata

Title of the Lecture: RAPID DEGLACIATION UNDER GLOBAL WARMING AND CATASTROPHIC GLACIAL LAKE OUTBURST FLOOD IN THE HIMALAYA: A REPORT FROM THE KANCHENJUNGA AREA IN THE EASTERN HIMALAYA.

Malay Mukhopakhyay-

- 1 'Biodiversity conservation through revival of sacred groves in West Bengal' 34th institute of Indian geography(IIG) meet- National Seminar, Earth Science Studies, Thiruvananthapuram, Kerala, December 13-15,2012
- 2 'Changing Rural livelihood in India - Thinking afresh '. National Seminar, UGC sponsored , Gour Mahavidyalaya, Malda, 8-9th September 2012.
- 3 a)'River Restoration -an approach for environmental renewal'
b) Norwester of Eastern India - a perceptual study.
c)Geography behind Myth -a study on Noah's flood.
27th February 2013, as a visiting professor delivered three special lectures under MHRD scheme during the XII plan, Vidyasagar University, Medinipur, West Bengal.
- 4 National conference on reorienting geography, education & training for Sustainable Development in India 29-31 Oct'12,BHU as resource person

Uma Sankar Malik-

Nominated as Visiting Fellow under UGC-SAP-DRS Programme of Burdwan University and delivered FOUR lectures on 22 and 23 March 2013 at the Department of Geography, Burdwan University.

Sutapa Mukhopadhyay:

- 1) Presented paper entitled "Impact of Reclamation Programmes on Emerging Hazardous situation in Sunderbans" in XXXIV Indian Geography Congress, Department of Geography, Patna University, November 2-4,2012.
- 2) Presented paper entitled 'Hydro-engineering Structures and Channel Hydro-morphological Alteration : A study on lower Reach of Mayurakshi river' in XXV National Silver Jubilee Conference of Indian Institute of Geomorphologists(IGI) in the Department of Geography, University of Allahabad, December 22 to 24, 2012.

Manjari Bhattacharji

1. National Seminar on 'Echoes of Silent Spring: Human impact on Environment' 9th March, 2013, Department of Environmental Studies, Visva-Bharati, Santiniketan
Title of the paper presented: Land Treatment Measures for Water Management: Study from Husumdanga Village, Hirbunth C.D. Block, Bankura, West Bengal
2. National Seminar on Changing Rural Scenario in the New Millennium. Dept. of PCK(Social Studies and Rural Development), Visva Bharati ,Sriniketan Title of the paper presented: Water Management in a Rural Area: Case Study in Khayer Kundi Village, Hirbunth C.D. Block, Bankura, West Bengal
3. International Geography Congress, PG Department of Geography, Utkal University, Vani Vihar, Bhubaneswar, Odisha Title of the paper presented: Comparative Analysis of Habitat Quality of Different Social Groups: Case Studies from Hirbunth C.D. Block of Bankura District, West Bengal, India

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Ongoing Research Projects in the Department:

- 1) Dr. Manjari Bhattacharya: : ICSSR Funded Research Project on 'Impact of Regulated Drainage on Agriculture and Ecology in Parts of Lower Damodar Flood Plain, West Bengal",
- 2) Dr. Sutapa Mukhopadhyay:
'An approach to the abatement of flood hazards of Mayurakhi river basin of West Bengal , Eastern India, through geo-economic management."

Amount Rs.6,37,200.00

Extension activities/NSS/Cultural and other activities organized by the Department and participated by the teachers and students of the department:

Academic distinctions gained by Teachers/Scholars or the Department as a whole-

Prof. V.C.Jha: Appointed as DIRECTOR, National Atlas and Thematic Mapping Organization (NATMO), Kolkata, Government of India, Ministry of Science and Technology, New Delhi on Deputation for THREE YEARS since 9th April, 2012.

Publications within the year, April 2012-March 2013.

Parbati Nandi:

1. Level of Backwardness In Birbhum District, West Bengal - P.Nandi and S.Chatterjee - North Eastern Geographer, Vol 36, No 1 & 2, 2009-2010, Pp 110-118, ISSN-0973-0915@ NEIGS.
2. Impact of Purandarpur on It's Surrounding Area: A study in Rural Hierarchy - Parbati Nandi & Sanchita Chatterjee - Published in Practising Geographer, Vol-17, No 1, Summer 2013, Pp 43-50, ISSN 0975-3850.
3. Child Health and Welfare in Birbhum District: A study In Immunization pattern of children (0-5 years) - published in Practising Geographer, vol 16, No 2, inter -2012, Pp-30-47, ISSN 0975-3850.

Debashish Das:

- i) "Debashish Das (and Jyotilal Mondal)," Impact of Tilpara barrage on economy of its surrounding areas- Geo- Analyst Vol 2 No2 Geographic society of North Bengal, PP16-22 ISSN No 2249-2909.
- ii) Causes of fluoride contamination in water and its effects on Human health: A case study in Birbhum district, West Bengal, India D.Das , Jyotilal Mondal, Eastern Geographer, Vol-XIX No-1 January 2013 pp 43-48, ISSN 0973-7642.

G.P. Chattopadhyay:

2012b: Snow Avalanche Hazard And Their Mitigation in Sikkim Himalaya. In Himalayan Journal Of Social Sciences. Himalaya College Of Education, Gangtok; Vol 2 (3): p. 63-68
2012c: Changes in the glacial environment around the southeast-facing slopes of Kanchenjunga in the Sikkim Himalaya: an assessment of the impact of Global Warming on the glaciers. Proceedings of the National Seminar on Climate Change and Green Economy (Jaipur, 5-6 June 2012)

Malay Mukhopadhyay:

Books:

- i) Sacred Groves- an issue on identity crisis (2012) Pubd: Lap Lambert, Germany. Joint author- Malay Mukhopadhyay & Tapas Pal, ISBN- 978-3-659 -19379 -8.
- ii) "Tale of a river life line" (April 2012), A novel on geography in regional language, Oora publisher, Kolkata - ISBN 81-87500-62-X
- iii) "Nor'Wester - A cognitive study for Environmental Appraisal" (Nov, 2012) : Lap Labert, Germany, Joint author - Saswati Roy and Malay Mukhopadhyay , ISBN - 978-3-8443-3265-0.

Articles:

- i) 'Development strategies vis-a-vis Human Rights: response of a tiny tribal community of Andaman Islands, India'. (May,2012) Changing society, culture and its impact on people. Pubd. Rupasi Bangla, Kolkata-6, Ed. Dr.K.Bag and K.Chakraborty. Sambhu Nath College, Lavpur, ISBN-978-81-909878-9-9.
- ii) 'Tagore's perceptions on primordial components of physical environment: A geographical overview (Dec, 2012) Pubd: Transactions, special Issue on philosophy and research methodology of geography. Ed. S.Chattopadhyay & M.Chattopadhyay, Jr. of the institute of Indian Geographers (IIG) ISSN - 0970-9851, pp 113-118.
- iii) "Understanding the changing fluvio-geomorphic environment of Sundarbans - a neglected chapter' (2012) Pubd. Community Awareness' in Sundarban: compact physical and social hazard. Ed.S.Chatterjee. ACB Publications, Kolkata-89, ISBN-81-87500-X, pp 86-92.
- iv) 'Wait for a while on your wrong tract' - (July, 2012) Pubd. Charcha, college Street, Lolkata-12,(Regional Language), pp- 149-154. www.charchapada.com.
- v) 'Coping with environmental hazard: a new dimension in hazard management'(2013) Geoseptrum, Ed.S.Mukhopadhyay & D.Roy, Pubd.ABC publications, Kolkata-89, ISBN 81-87500-70-0.

(Mrs.) Sutapa Mukhopadhyay:

- i). Extraction and Alignment of Vegetation astride Road Network in Ward 19 & 20 of KMCA :A Micro spatial study . International Journal of Applied Research & Studies Vol I Issue I , 2012/155 ISSN 2278-9480.
- ii) Trend of Flood at Riverine Bengal Basin of Kandi block of Murshidabad District: A hydro-geomorphological overview. Indian Journal of Geography and Environment (Peer Reviewed Journal) Vol 12, ,Vidyasagar University,Midnapur,pp09-18, ISSN 0972-7388.
- iii) Effect of sand splay on the Agro-economic status of the river astride villages of Lower Ajoy,West Bengal, Sustainable Agriculture and Environment ,New Delhi Publishers, pp 219-236, ISBN 978-93-81274-12-5

Published Book

Dynamic Fluvio-geomorphological Environment of Indian Sundarbans (2012) Lap Lambert Academic Publishing, Germany, ISBN 978-3-8443-1370-3

Gopal Chandra Debnath:**Published research paper**

- i) Usefulness of GIS Application in analyzing the major dynamic geomorphic processes like erosion, deposition and to prevent Deforestation activities in Sundarbans: The international Ournal's Research Journal of Social Science & Management, ISSN: 2251-1571.
- ii) Morphometric analysis and associated land use study of a part of the Dwarakeswar Watershed: INTERNATIONAL JOURNAL OF GEOMATICS AND GEOSCIENCES Volume 3, No2, 2012 @ copyright 2010 all rights reserved Integrated publishing services Research article ISSN 0976- 4380 Submitted on January 2013 published on January 2013 351

Manjari Bhattacharji

1. Analysis of Spatio-temporal pattern of population by Religious Communities in West Bengal -Geo-Analyst (Vol.2, No.2).

Krishnendu Gupta

- i). Municipal Solid Waste Management: A Case Study of Tarakeswar-Temple Town in Hugli District(Co-author Das S), Practising Geographer, (ISSN 0975-3850) Vol 16, No 2, 2012 pp 221-231
- ii). Agricultural Water Utilisation Through Hapa System: A Study in Bankura District, W.B(Co-author Mondal S), Geo-Analyst,(ISSN 2219-2909) Vol 2, No 2, 2012 pp 146-150.
- iii). Regional Disparities in the level of agricultural development in West Bengal: A District level Study(Co-author: Sadat N), Indian Steam Research Journal,(ISSN 2230-7850) Solapur, Maharastra, Vol III issue I, 2013 ,pp 1-8.
- iv) A Geo Environmental characteristics of a Port Town: A case study of Haldia Town, East Midnapur District, West Bengal,Geo-Analyst, Vol.2, No.2, 2012,pp 91-96

DEPARTMENT OF ANCIENT INDIAN HISTORY, CULTURE & ARCHAEOLOGY

The Department of Ancient Indian History, Culture and Archaeology is a direct descendent of Indological studies that were initiated at Santiniketan, with the blessing of Rabindranath, and undertaken by pundits Kshitimohan Sen and Vidhusekhara Sastri in the early 1900s, to be precise 1907 onwards, even when the idea of Visva-Bharati have not had its germination in the mind of the Poet.

The Department of Ancient Indian History and Culture, which was thus named in 1951, has been re-christened in 1977, with the introduction of Archaeology as a component of course structure, as the nomenclature now stands.

K.Mavali Rajan

Research Publication:

1. "Slavery in Ancient Tamilagam", Aivuk Kovai, Proceedings of the International Annual Conference of All India University, Tamil Teachers Association, Vol.5, 2012.
2. "Margianlised Communities and Agrarian Slavery in Medieval Tamil Country", Proceedings of the Thirty Second Annual Session of the South India History Congress, Chennai, 2012.
3. "Social Oppression: Prevalence and Practices of Untouchability in Early Tamil Society", Golden Research Thoughts, Vol.2, issue 10, 2012.

Bikash Mukherjee

1. Participated in the International Conference held on Goutam Buddha University, Noida, New Delhi from 7th-9th September 2012 and delivered a lecture on "Transformation of Buddhism in Eastern Indian as revealed in Charyagiti and Doha".

Ananda Chandra Sahoo:

Conference/Seminar/Lecture:

1. Invited to deliver four lectures in the Refresher Course programme, organized by the P.G. Department of History, Sambalpur University, Jyoti Vihar, Odisha on 13th and 14th December, 2012, on the theme: (I) "Early Indian Religions: beliefs and Practices" and (II) "Fine Arts as a Source of Source materials for the study of the history of religions".
2. Attended the two days National Seminar on the "Philosophy of Sri Chaitanya and India Culture" organized by the Department of Philosophy and Comparative Religion, Visva-Bharati on 30th and 31st March 2013, and presented a paper entitled "The Cult of Jagannatha: Reflections on religious adaptations".

Sarita Khettry.

Conference/Seminar/Lecture:

1. Participated and presented a paper entitled 'The Representation of the Buddha in Indian Art: A review' in three day National Seminar of Indian Art History Congress on Indian Art and Religion: An interactive approach organized by The Ramakrishna Mission Institute of Culture from 23rd-25th November 2012 at Kolkata.
2. Participated and presented a paper entitled 'Agents' of Indian Culture in South- East Asia during the Pre-Colonial Period' in three day Sixth Biennial International Conference organised by University of Calcutta and Indian Association for Asia and Pacific Studies from 17-19 December 2012 at University of Calcutta, Kolkata.
3. Participated and presented a paper entitled 'The meaning and significance of Anji' in the 73rd Session of the Indian History Congress from 28-30th December 2012 at Mumbai University, Mumbai.
4. Delivered two lectures on 'Origin and Development of Brahmi' in India: an Overview at the Dept. of Odia, Visva-Bharati on 1.02.12 in the Basic Level Workshop of Palaeography and Manuscriptology from 21st January -10th February 2013.

5. Participated and presented a paper entitled 'Anji : A study of symbol in the Inscriptions of Bengal' in the 10th International Conference on Bengal Art organised by International Centre for Study of Bengal art, Dhaka, Bangladesh and Khuda Bakhsh Oriental library, Patna from 21-24 February 2013.

Publications/Books

1. 'Monastic Role in the introduction of the image Cult in Buddhism of the North-West', 'Aspects of Indian History and culture' Edited by SudipaRayBandyopadhyay, Rita Chaudhuri, Mahua Chakraborti, New-Delhi, 2012,pp.101-111.
2. 'Portable' images (Buddhist)from Gandhara, Proceedings of the Indian History Congress, Delhi, December2012,pp.204-211.
3. 'Religion and State in Myanmar(Burma)in the Pre-Colonial Period',Perspective: Asia-Pacific, Proceedings of the Fifth Biennial International Conference of Indian Association for Asian and Pacific Studies, Kolkata, 2012. pp.368-383.

Book Review

Reviewed a Book entitled 'Early Buddhist Transmission and Trade Networks (Mobility and Exchange within and beyond the North-Western Borderlands of South Asia) by Jason Neelis in the Journal of Ancient Indian History, Vol.XXVII, Kolkata, 2012.

DEPARTMENT OF HISTORY

CHHANDA CHATTERJEE

Participation and presentation of paper in International Conference

- ❑ Presented a paper entitled -“The Idiom of India: Rabindranath Tagore and the Poet Saints of the Sri Guru Granth Sahib” in Scottish Centre for Tagore Studies (ScoTs), Edinburgh Napier University) in the international conference on 'Tagore: The Global Impact of the Writer in the Community', held on 6-8 May 2012.
- ❑ It was fully funded by a foreign travel grant by the Indian Council of Historical Research, New Delhi

Organization of International Conference

An International Conference in the Department of History on 14-15 January, 2013 on 'Tagore and his Global Vision: Forging Bonds with the World' funded jointly by the ICSSR, New Delhi and Visva Bharati.

Papers Published

- ❑ 'Contextualising Truth : Deconstructing the Poet Khazan Singh's Account of the War of Delhi, 1857' in Crispin Bates(ed.) Mutiny at the Margins : New Perspectives on the Indian Uprising of 1857, Vol. 1 ed. By Crispin Bates Anticipations and Experiences in the Locality (Sage, New Delhi, 2013) pp.132-148
- ❑ 'War for Independence : The Khalsa Against the Company Raj, 1845-46 and 1848-49 in The Indian Historical Review, 39, 2 (June-December, 2012)
- ❑ The Idiom of India: Rabindranath Tagore and the Poet Saints of the Shri Guru Granth Sahib' in the Presidency College Autumn Annual.

BHASKARJYOTI BASU

Presented a paper on 'Rabindranath Tagore and Japanese Militarism' in an International Conference in the Department of History, Visva-Bharati on 14-15 January, 2013 on 'Tagore and his Global Vision: Forging Bonds with the World' funded jointly by the ICSSR, New Delhi and Visva Bharati.

S. Jeyaseela Stephen

National/International Conference/Seminar/ Workshop Attended Presented a paper entitled "The Slaves of the Tamil Coast and the Dutch and French Trade in the Indian Ocean, 1622-1793" at the International Conference on "The Dimensions of the Indian Ocean World Past, 9th-19th Centuries, held at Murdoch University, Fremantle, Australia from 12 to 14 Novemebr, 2012.

Publications

Book

Oceanscapes of Tamil Textiles in the Early Modern World, Primus Books, New Delhi, 2013, ISBN:978-93-80607-57-3.

Syed Ejaz Hussain,

Associate Professor

Publications:

1. A research paper titled "Art and Culture: A Study in Persian Manuscriptology" has been published in the Journal of Bengali Art, Dhaka, Vol. 17, pp. 297-309 (ISSN: 1607-1344).

Seminars/Conferences:

1. Participated in the 10th International Conference on Bengal Art organized by the International Centre for Study of Bengal Art, Dhaka, Bangladesh and Khuda Bakhsh Oriental Public Library, Patna on 21-24 February, 2013 and presented a paper titled "Discovery of Husain Shah's New Inscription and Ruins of a Jami Mosque from Husain Gunj in Ballia District of Uttar Pradesh".

Honours/ Awards:

1. Elected as the Honorary Fellow of the International Centre for Study of Bengal Art, Dhaka, Bangladesh and awarded with a Memento, a Certificate and a Shawl in the Valedictory Session of the 10th International Conference on Bengal Art in Patna on 24 February, 2013.

Lectures Delivered:

1. Gave two lectures in the Refresher Course organized by the Department of History, Jadavpur University, Kolkata on 8th February, 2013. The first lecture was on 'The Institution of Khalifa and the State Power: Glimpses from Indian Sultanate Coins' and the second lecture was on 'The Coins and Mints of Bihar during the Medieval Period'. Participation in Expert Meetings at Victoria Memorial Hall, Kolkata: Participated in the meetings of Physical Verification Overseeing Committee of Victoria Memorial Hall, Kolkata on 16th February, 2013.

Amarendra Kumar

Honours/Awards/Achievements

1. Selected for Associateship of UGC Inter-University Centre for Humanities and social sciences at Indian Institute of Advanced Studies Shimla (for 3 years); Availed second spell of Associateship under this programme from 01.10.2012 to 31.10.2012.

Seminars Attended/Paper Presented

1. Presented a research paper titled 'The Sidi Factor and the Orientation of Maratha Naval Policy (1680-1730)'

BIPASHA RAHA

Visiting Professor

Visiting Professor, Burdwan University, August 27-30, 2012

Research Project

Ongoing UGC Major Research Project on 'The Rural World in Contemporary Literature: Changing Perceptions in Colonial Bengal, 1930-50'

National Seminars

1. Presented a paper titled "Peasant Rebellion in Rangpur: 1783" in the 73rd session of the Indian History Congress, 28-30, December, 2012
2. Presented a paper titled "Credit Relations in Rural Bihar and Orissa, 1912-1936" in the national seminar on 'Locating Modernity and its Parameter: Perspective India (1556-2000)' held at Malda College in collaboration with Department of History, Vidyasagar University, 21-22 January, 2013 and also chaired a session
3. Presented a paper titled "Man and Nature: Literary Representation in mid-Nineteenth Century Bengal" in the national seminar on 'Nature and Social Imagination: The Indian Response' at the Department of History, Burdwan University, 20-21 March, 2013

International Seminars/Conferences Attended

1. Presented a paper titled 'Rural Reconstruction and Rabindranath Tagore' in the international seminar on 'Tagore and his Global Vision: Forging Bonds with the World' at the Department of History, Visva-Bharati, 14-15 January, 2013
2. Presented a paper titled 'Human Resource Development: Rabindranath Tagore on Healthcare for Women and Children in Rural Bengal' in the international seminar on 'Gender and Sexuality- the Indian Self and its Forgotten Doubles: Reading Rabindranath Tagore against the Grain,' at the Department of English and Other Modern European Languages, Visva-Bharati, 18-19 February, 2013.

Arpita Sen

Publication

"Health, Homeopathic Medicines and a Brahmo Missionary in the Khasi Hills (1889-1899)" in Proceedings of the North East India History Association, Volume 32, Shillong, 2012

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1. Participated in the 33rd Annual Conference of the North East India History Association held at Rajiv Gandhi University, Rono Hills, Itanagar, Arunachal Pradesh from 1-3 November, 2012 and presented a paper "Interpreting an autobiography- Atmajibansmriti (Memories of my life) through a gendered lens (1889-1916)".
2. Participated in the International Conference 'Tagore and his Global Vision: Forging Bonds with the World' held in the Department of History, Visva-Bharati from 14-15 January, 2013 and presented a paper "Rabindranath Tagore's 'Indian St, Enda': An Irish Parallel? (1901-1916)

Pum Khan Pau

Seminars Attended:

1. "Behind the enemy lines: Representation of Zo (Chin) participation in World War II", presented at the International Seminar on History and Imagination, organized under UGC-DRS SAP, Department of History, Visva Bharati University, Santiniketan, 14-15 January, 2012.
2. "Manipur and the Chin Hills: Colonial policy with reference to Johnstone's annexation policy", presented at the NEIHA session at Rajiv Gandhi University, Itanagar during 3-4 November, 2012.
3. Colonialism vs Chieftainship: The making of colonial 'agent' in Chin Hills' presented at the National Seminar on Democratization process and the Zomis organized by Siamsinpawlpi Shillong as part of their Golden Jubilee Celebration, ICSSR-NERC Conference Hall, Shillong, Meghalaya, 19-20 March, 2013.

Published work:

1. 'Rethinking Religious Conversion: Missionary endeavours and indigenous response among the Zo (Chin) of India-Burma borderland', Journal of Religion and Society, vol. 14, 2012, pp. 1-17.
2. "Tedim Road-The Strategic Road on a Frontier: A Historical Analysis", Strategic Analysis, vol.36, No. 5, 2012, pp.776-786.

DEPARTMENT OF ANTHROPOLOGY

Activities of the Department

The department of Anthropology which is under Vidya-Bhavana (Institute of Humanities & Social Sciences) offers a two year M.A./M. Sc. Course in Anthropology and provides specialization in two major areas of the subject - Biological Anthropology and Social Cultural Anthropology. Preparation and submission of Dissertations based on Field Work form the essential part of the specialized course. It also conducts one semester Ph.D. Course Work. The Department is also publishing its own biannual research journals "Nritatta - The Anthropology" with ISSN (2249-9830).

JYOTI RATAN GHOSH -

Current Trends in Research on Biological Anthropology in West Bengal, Organized by Biological Anthropology Unit, Indian Statistical Institute, Kolkata. Held on March 21-22, 2013.

RANGYA GACHUI

Three-day National Workshop on "Anthropology and Museum", from 4th to 6th Oct 2012. Bhopal

Publications

ARNAB GHOSH

1. Janewa VS, Ghosh A and Scheffler C. 2012, Comparison of BMI and percentage of body fat of Indian and German children and adolescent *Anthropologischer Anzeiger* 69 (2): 175-187 Hermanussen MH, Lieberman LS, Janewa VS, Scheffler C, Ghosh A, Bogin B, Godina E, Kaczmarek M, Shabrawi ME, Ruhl FJ, Staub K, Woiteku U, Balau P, Abmannu C, Buurem SV, Lehmannus A, Sataker T, Thodberg HH, Jopp E, Kirchengast S, Tutkuvieni J, McIntyre MH, Wittwer-Backofenz U, Boldseb JL, Martin DD and Meier J. 2012, Diversity in auxology: between theory and practice *Anthropologischer Anzeiger* 69 (2): 159-174
2. Das M, Pal S and Ghosh A. 2012, Family history of type 2 diabetes and prevalence of metabolic syndrome in adult Asian Indians *Journal of Cardiovascular Disease Research* 3 (2): 104-108 Das M, Pal S and Ghosh A. 2012, Interaction of physical activity level and metabolic syndrome among the adult Asian Indians living in Calcutta, India *Journal of Nutrition Health and Aging* 16 (6): 539-543 Ghosh A. 2012, Anthropometric and body composition characteristics during pregnancy: A study from West Bengal, India *HOMO: Journal of Comparative Human Biology* 63 (3): 233-240 Das M, Pal S and Ghosh A. 2013, Synergistic effects of ACE (I/D) and Apo E (Hha I) gene polymorphisms on obesity, fat mass, and blood glucose level among the adult Asian Indians: a population based study from Calcutta, India *Indian Journal of Endocrinology and Metabolism* 17 (1): 101-104

JYOTI RATAN GHOSH

Ghosh JR, Bandyopadhyay AR. Abdominal circumference as a screening measure for type 2 diabetes, Kathmandu Univ Med J (KUMJ). 2012 : 10(40): 12-5.
Mistry S, Chatterjee M. Ghosh JR, Chakrabarti NK Bandyopadhyay AR. Variations of scalp, public and axillary hair, *Anthropol Anz.* 2012;69(1):117-25.

RANGYA GACHUI

A Development Perspective of Inpui : (A Critical Study on Development Perspective)
Published by : Tamthing Ruivanao for development of human potential. Imphal.

DEPARTMENT OF PHILOSOPHY AND COMPARATIVE RELIGION

The conceptual foundation of the present-day Department of Philosophy and Religion was laid early as in July 1919 when Visva-Bharati was inaugurated as the unique home for all cultures. The programme offered by what was then the Department of Higher Studies included provision for study and research in various aspects of Dharma-Shastra, Purana and Hindu Religion. With Visva-Bharati becoming a registered public body and adopting a constitution of its own on 23rd December, 1921, the Department of Higher Studies, then renamed Uttar Vibhaga, expanded its academic programme by including Philosophy as an independent area of study besides Logic, Nyaya and Vedanta (Upanishads). The study-cum-research programme in philosophical subjects received fresh impetus when academic wing of Visva-Bharati was reconstructed in 1926. The erstwhile study-cum-research centre was then transformed into a full-fledged School of Research called Visva-Bharati. This institute of higher studies and research soon made available facilities for original research in a number of philosophical areas such as Buddhism, Jainism, and Indian Mysticism. The years that followed were marked by high-quality research in Philosophy with participation of scholars like Muni Jui (Jainism), Brahmachari Govinda, a German Buddhist monk (Buddhist Studies), Professor C.L. Fabri, a Hungarian Sanskrit Scholar, Countess Hamilton (Indian Philosophy), and Professor Phanibhusan Adhikari (Indian Philosophy).

Yet another change took place in 1951 when Visva Bharati became a Central University by an Act of Parliament. As the curriculum, teaching and examination-system of the University began to assume the form prevalent in other universities in the country. Vidya-Bhavana originally a School of Research, had to start Undergraduate and Postgraduate courses in a number of subjects including Philosophy and Comparative Religion. That was how today Department of Philosophy and Religion came into being.

In April, 1964, the Department was converted into a Centre of Advance Study in Philosophy.

Organized Seminar/ Lecture / Conference:

1. Organized the 5th International Conference of Korean and Indian Writers and Artists on Mythology, Mysticism, Literal Arts of Suffering and Redemption organized by the Dept. of Philosophy & Religion, Visva-Bharati, Santiniketan and Korean Artists for India, South Korea on 19th July, 2012 at Santiniketan
2. Organized Maharshi Smarak Lecture at Visva Bharati on 24 December, 2012 lecture delivered by Prof. Kalyan Bagchi, Former Professor of Philosophy, Visva-Bharati. Organized Amalabala Devi Endowment lecture at Visva-Bharati on 21st March, 2013 and lecture delivered by Swami Atmapriyanandaji Maharaj, Vice Chancellor of Belur Vivekananda University, Belur.
3. Organized Binodini Memorial Endowment lecture at Visva-Bharati on 31st March, 2013 and lecture delivered Prof. Pradyut Mukhopadhyaya, Former Professor of Philosophy, Jadavpur University, Kolkata.
4. Organized two-day International Seminar on Values and Indian Culture in collaboration with the Council for Research in Values and Philosophy, Washington, DC, USA
5. Organized two-day National Seminar on the Philosophy of Sri Chaitanya and Indian Culture on March 30-31, 2013 at Visva-Bharati.

TEACHERS SEMINAR:

1. Maya Das delivered lecture on Human Destiny in Traditional Indian View on 09-08-2012.
2. Dr. Anup Barman delivered lecture on Vatsyanis concept of Anviksividya on 16.8.2012.
3. Dr. M.P. Terrence Samuel delivered lecture on Indian Philosophy and Foucault on 24.8.2012
4. Prof. V. Raman delivered lecture on Wittgenstein, the Man and his Philosophy on 31.8.2012.
5. Prof. Kalyan Bagchi delivered lecture on Categories as a priori particulars on 5.10.2012.
6. Prof. V.N. Sheshagiri Rao, Dept. of Philosophy, Mysore University delivered has lecture on "Indian and Western Philosophy in the Era of Science".

7. Prof. Predrag Cicovacky, Professor of Philosophy and Director of Peace and Conflict Studies, College of Holy Cross, Worcester, N.A, USA delivered lecture on "On the immortality of War and Violence" and "Martin Luther King's Ethics of Love and Non-violence". on 3.12.2012.

Input of the Teacher for preparing Annual Report from April, -2012- March, - 2013

Name : Md. Sirajul Islam

Research Papers:

1. Published an article on Sufi Notion of Interfaith Dialogue and World Peace, Sandhan-Journal of Centre for Studies in Civilizations, Editor: D.P. Chattopadhyaya, Vol-ix, Number-1, January -June, 2009(Back/log issue published in 2012), pp.69-86 (ISSN 0972-3609).
2. Published an article on Globalization and Eurasian Peace: An Islamic Perspective in the Book- Globalizing Eurasia- Potentialities and Challenges, Editor-G. M. Mir, Published by the Centre of Central Asian Studies, University of Kashmir, Srinagar, Kashmir, 2013, pp. 325-344 (ISBN: 978-81-921335-0-9).

Attended Seminar / Conference:

National:

1. Attended One day State Level Seminar on Life and Teachings of Prophet Hadrat Muhammad on 13-05-2012 in the Muslim Institute Hall, Kolkata, organized by Natun Gati and presented paper on the Role of Prophet Hadrat Muhammad to Reform the Society.
2. Attended UGC sponsored Two-Day National Seminar on "Man and Nature" organized by the department of Philosophy, Christ College, Cuttack, Orissa on September 15-16, 2012 and presented a paper on Relationship between Man and Nature: Some Moral Reflections and also presided over in the 5th session of the seminar on 15-09-2012.
3. Attended UGC sponsored Two-Day National Conference on "Bio-ethical Issues Concerning the Problems in Medicine" organized by the Department of Philosophy, Sri Sathya Sai College for Women, Bhubaneswar, Orissa on 30th September and 1st October, 2012 and presented a paper on Islam and Abortion: A Bio-ethical Justification.

International:

1. Attended 11th Session of International Congress of Social Philosophy (ICSP) in Karnatak University, Dharwad, Karnatak on May 28-30, 2012 and presented a paper on Education for Sustainable Development.
2. Attended International Conference on Universalistic Humanism & Multicultural Society: Tagore's contribution organized by the International society for Studies in Society & Religion (IFSSAR) on July 6-8, 2012 in collaboration with ICCR, Kolkata and Visva-Bharati University, Santiniketan and presented a paper on The Concept of Universal Man in Rabindranath Tagore's Philosophy: An Appraisal.
3. Attended International Seminar on Cultural Unity of India (Phase-1) organized by the Ramakrishna Mission Institute of Culture, Gol park, Kolkata on January 16-19, 2013 and presented a paper on Sufism: A Bond of Cultural Unity in India: An Appraisal .
4. Attended two day International Seminar organized by the Gaudiya Mission, Mumbai on "Universal Brotherhood" on December 1st and 2nd, 2012 at Ravindra Natya Mandir, Prabhadevi at Mumbai and presented a paper on Universal Brotherhood: An Appraisal in the Viewpoint of Sufism and Gaudiya Vaisnavism .
5. Attended UGC sponsored Three-day International Seminar on Ethics in Persian Poetry with Special Reference to the Mathnavi of Jalaluddin Rumi on February 4-6, 2013 organized by the Dept. of Persian, Gauhati University, Guwahati, Assam and presented a paper on Rumi's Notion of Universal Love: A Philosophical Analysis.

Lecture Delivered:

1. Delivered UNESCO Lecture organized by Prof. Radharaman Chakraborty, Ramkrishna Mission Institute of Culture, Golpark, Kolkata on 17-04-2012 (at evening) on Islamic Notion of Peace and Humanism.
2. Delivered Welcome Address in the 5th International Conference of Korean and Indian Writers and Artists on Mythology, Mysticism, Literal Arts of Suffering and Redemption organized by the Dept. of Philosophy & Religion, Visva-Bharati, Santiniketan and Korean Artists for India, South Korea on 19th July 2012 at Lipika Auditorium, Visva-Bharati.

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3. UNESCO Lecture delivered on 13 April, 2013 at Ramakrishna Mission Institute of Culture, Golpark, Kolkata on Islam, Humanism and world peace, organized by Prof. Radharaman Chakravorty.

Chaired/ Presided in the Session:

1. Presided over in One day State Level Seminar on Life and Teachings of Prophet Hadrat Muhammad on 13-05-2012 in the Muslim Institute Hall , Kolkata, organized by Natun Gati
2. Presided over on 15-09-2012 in the 5th Session of UGC sponsored Two Day National Seminar on " Man and Nature" organized by the department of Philosophy, Christ College, Cuttack, Orissa held in September 15-16,2012

Book Published:

Jointly Edited - "Satyam Shivam Sundaram", Karnatak University, Dharwad, Karnatak, 2012 (ISBN-978-81-924572-0-8).

Maya Das

Participation in National and International Seminars

1. July 19, 2012

International Seminar on Mythology, Mysticism and the Literal Arts of Suffering and Redemption organized by Korean Artists for India and the Department of Philosophy & Religion, Visva-Bharati.

Paper presented: Mysticism in Indian Religious Philosophy

4. January 14-15, 2013

International Seminar on Values and Contemporary Culture: An Indian Perspective, Jointly organized by the RVP Washington DC and the Department of Philosophy and Religion, Visva-Bharati.

Paper presented: Values and Contemporary Culture: Some of Tagore's Thoughts

5. March 5

Seminar in Commemoration of the 150th Birth Anniversary of Swami Vivekananda on Relevance of Swami Vivekananda in the 21st Century organized by Indira Gandhi Centre, Visva-Bharati.

Chairperson of one session of the Seminar.

6. March 30-31, 2013

National Seminar on the Philosophy of Sri Caitanya and Indian Culture, organized by the Department of Philosophy and Religion, Visva-Bharati.

Paper presented: Philosophy of Sri Caitanya: A Turning Point in Indian Religious Culture

Research Publication:

Sl.	Title of the paper	Name of the Journal	ISSN /ISBN Number
i.	"The Jaina concept of Ahimsa and its relevance in modern society.	'Anukrity'	2250 - 1193
ii.	"Swami Vivekananda's Neo-Vedanta and its critical Evaluation."	'Wisdom Herald'	2231 - 1483
iii.	"Jaina concept of omniscience (kevalajnana) - A critical and comparative study."	'Anusilana'	0973 - 8762
iv.	"Jaina ethics and its impact on Society."	'Shodh Drishti'	0976 - 6650

MANJARI CHAKRABARTY

SEMINAR/CONFERENCE/WORKSHOP ATTENDED:

- 1) Workshop on Philosophy Of Science (5-12 NOVEMBER, 2012) organised by the Centre for Advanced Studies, Department of Philosophy, Jadavpur University, Kolkata-700 032. Title of the paper presented: 'Karl Popper on Scientific Discovery'.
- 2) National Seminar on Society, Culture and Value (20-21 December, 2012) organised by the Centre for Advanced Studies, Department of Philosophy, Jadavpur University, Kolkata-700 032. Title of the paper presented: "The Epistemic Value of Material Culture".
- 3) MidWest Workshop on Philosophy of Science, Technology, Engineering and Mathematics (Philo STEM-5) held at the campus of Indiana University-Purdue University (IPFW), Fort Wayne, USA, (14-16 March, 2013). Title of the paper presented: " Karl Popper on 'Feats of Engineering': An Exposition and Critique"

PUBLICATION:

- 1) Title of the paper: 'Popper's Contribution to the Philosophical Study of Artifacts' in the Proceedings of the 23rd Biennial Meeting of the Philosophy of Science Association (PSA) held at San Diego, California, USA (15-17 November, 2012).

REKHA OJHA

1. Orientation Programme (OP-106) - Attended Orientation Programme (OP-106) at U.G.C. Academic Staff College, Himachal Pradesh University, Summer Hill, Simla-held on 14-05-2012 to 09-06-2012 and obtained "A" grade.

Publication:

1. Research paper published in Indian Journal of Environment and Development, University of Lucknow, on the topic "Environment for Labour class women and health; A Discourse". ISSN-No-2249-0043.

Detail of Seminar / Conference / Workshops / Lecture attended and paper presented

1. Paper presented on the topic "Role of Media in Highlighting Women's Issues" on National Seminar organized by Centre for Journalism and Mass Communication (CJMS), Visva-Bharati on 15th - 16th March, 2013.
2. Paper presented on the topic "Ösho's view on Chaitanya Mahaprabhu" on National seminar organized by Department of Philosophy & Comparative Religion, Visva Bharati on 30-31 March, 2013.

CENTRE FOR JOURNALISM & MASS COMMUNICATION

Number of students qualified : 5 (4 - NET June, 2012, 1 - NET December, 2012)

Departmental Seminar/Workshop :

1. A National Workshop on 'Emergence of New Media in the Rural Belt of India with special reference to West Bengal' in collaboration with Friedrich Ebert Stiftung (FES), Germany on 20-22 April, 2012
2. A special lecture on 'The Documentary Photographic Image--The Story Is The Thing!' by Professor George C McLemore, Department of Communication of the University of Texas-Pan American, USA on 22 July, 2012.
3. A Public Relations Workshop on 29-30 November, 2012
4. An Advertising Workshop on 11 January, 2013
5. A UGC sponsored National Seminar on 'Media Ethics: Reality or Myth?' on 15-16 March, 2013

National & International standard Conference/Seminar/Workshop/Exhibition attended by Teachers/Research Scholars in details:

BIPLAB LOHA CHOWDHURY

1. Presented a paper on "Communication and Economic Performance Synergy: The Ideal State in Imperfect Media Market" in Asian Congress for Media & Communication International Conference (October 25-27, 2012), Bangkok.
2. Presented a paper on "Contemporary India: Value and Culture Conundrum" in Visva-Bharati Dept of Philosophy & Religion and Catholic University of America, Washington International seminar on Values and Contemporary Culture: An Indian Perspective on 15th January, 2013
3. Presented a paper on "From centrality of computer to Diffused Centrality : Media redefinition stimulated by Transforming New Media" presented in Pune University Department of communication studies National Seminar on Metamorphosis of New Media & Digital Culture dated 7-9th March, 2013.
4. Invited as Resource person in India deliberation of United Nation Volunteer Force on "Post 2015 development, volunteering and youth" held at RGNIYD, Sriperumbudur dated 29-30 October & 1st November, 2012.
5. Chaired two sessions in Pune University Department of Communication Studies National Seminar on "Metamorphosis of New Media & Digital Culture" dated 7-9 March, 2013.
6. Chaired a session in CJMC, Visva-Bharati National Seminar on " Media Ethics: Reality or Myth" dated 15th March, 2013.

MAUSUMI BHATTACHARYYA

1. Presented a paper on 'Social Media and Contemporary Culture in India' in an International seminar organized by the Dept of Philosophy & Religion, Visva-Bharati and Catholic University of America, Washington in International seminar on Values and Contemporary Culture: An Indian Perspective on 14-15 January, 2013
2. Presented a paper on 'Mobile Communication in empowering Rural India: A case study in the villages of Birbhum district, WB, India' in an International Seminar organized by the Jadavpur University, Kolkata in association with the Sterling University, UK on 11 December, 2012
3. Presented a paper on 'Gender Situation at Higher Education System' in an International Workshop organized by the Surendranath College for Women, Kolkata in association with International Association for Women in Radio and Television on 30 August, 2012
4. Presented a paper on 'Rural Society: Mindset towards mobile phone usage' in a National Workshop organized by the Centre for Journalism & Mass Communication in association with Friedrich Ebert Stiftung, Germany on 20-22 April, 2012

SANHITA CHATTERJEE

1. Presented a paper entitled "Social Media Activism and its Impact on Governance and Public Policies", at the UGC Sponsored National Seminar organized by the Centre for Journalism and Mass Communication, Visva Bharati on 15-16 March 2013.

Publications within the year April 2012-March 2013:

BIPLAB LOHA CHOWDHURY

1. Authored "NaboMadhyamer Ruporekha" (Bengali Outline of New Media) published by Paschim Banga Rajya Pustak Parshad, Kolkata.
2. Invited article "Media & Volunteering" published in UNDP-UNVF volume Volunteering In India Contexts, Perspectives and Discourses .
3. Invited joint article (with Birajkanti Shome) "Indian Perspective & Tradition of Volunteering" published in UNDP-UNVF volume Volunteering In India Contexts, Perspectives and Discourses.
4. Invited article "Transforming Media Education: In search of a Roadmap" published in Kolkata Press Club Annual Number, 2012.

A brief history on the development of the Vibhaga

Gurudev Rabindranath Tagore's interest in media is well known. His contribution to different literary journals and his naming Indian Broadcasting Service as "Akashvani" are also very well known. When Visva-Bharati began its Centre for Journalism & Mass Communication(CJMC) in 2000 with PG Diploma Course in Journalism & Mass Communication, it was the founder's goal, which started preparing future communicators fine-tuned for connecting people across the world.

In 2000-2001, its 14 months Diploma Programme had 23 students. A specially designed Bridge Course leading to MA for students of PG Diploma Course was started in 2002-2003. From 2003-2004, a full-fledged 2-year MA Degree course was started with 25 students. In 2004-2005, more students took admission. At present foreign students are also studying at CJMC.

From 2009-10 session semester system has been introduced.

Any other relevant information, which in the opinion of the Head of the Department is worth-reporting:

In 2012-13 session, 1 student got 'Gandhi Fellowship' funded by a renowned organization Kaivalya Foundation, New Delhi.

1. Coordinated a National Workshop on 'Emergence of New Media in the Rural Belt of India with special reference to West Bengal' in collaboration with Friedrich Ebert Stiftung (FES), Germany on 20-22 April, 2012
2. Coordinated a UGC sponsored National Seminar on 'Media Ethics: Reality or Myth?' on 15-16 March, 2013

SIKSHA-BHAVANA **(Institute of Science)**

Siksha-Bhavana (Institute of Science) was originally an under-graduate college for teaching Humanities subjects, which during 1961-63 was expanded to include in its curriculum B.Sc.(Hons.) courses in Mathematics, Physics, Chemistry, Zoology and Botany. The M.Sc. programme in Mathematics was introduced in 1963 and the same for other subjects was started in 1968. Finally in 1972, due to reorganisation of the course of studies in the Humanities and Science subjects, all the Science Departments teaching undergraduate and postgraduate courses were brought under Siksha-Bhavana, which is now known as Institute of Science.

Siksha-Bhavana (Institute of Science), now comprises eleven constituents: nine Departments and two Centres, viz. Departments of Chemistry, Mathematics, Physics, Botany, Zoology, Statistics, Computer & System Sciences, Biotechnology, Environmental Studies and Centres for Mathematics Education and Integrated Science Education & Research where both teaching and research programmes are running leading to award of B.Sc.(Hons.), M.Sc. and Ph.D. degrees. Over this relatively short period of time, this Bhavana has made remarkable strides in both teaching and research, and has generated scientific awareness among the surrounding populace in consonance with the ideas of Gurudev Rabindranath Tagore, through its extension programmes. Interdisciplinary programmes of teaching and research have been developed and the institute has produced excellent graduates who are serving the society through their work in prestigious Universities, institutions and organizations in various regions of the country and abroad. All the departments and centres are doing commendable work with motivation for excellence in developing new courses and in initiating novel fields of research. Six departments, Physics, Chemistry, Mathematics, Zoology, Botany and Biotechnology have already received the recognition from the Department of Science & Technology, Govt. Of India in the form of FIST grants. The Departments of Mathematics, Chemistry and Botany have been awarded Special Assistance Programme (DRS) from UGC. The department of Zoology has been awarded Centre for Advanced Study (CAS) from the UGC. The M.Sc. programme of the Department of Biotechnology is support by the Department Biotechnology, Govt. of India and students admitted to the course are those qualified through the all India Combined Entrance Examination conducted by JNU, New Delhi. These students also get a monthly stipend of Rs. 1200/- per month. The Five Year Integrated M.Sc. Course in Science (Physical Science and Life Science) is intended for attracting highly motivated and talented students to research and education in basic sciences. The course is currently under progress with effect from at the academic session 2009-2010. The students admitted through National Entrances Screening Test (NEST) are awarded scholarship @ Rs. 5,000/- p.m. under the INSPIRE Programme of DST, Govt. of India.

The performance of the students of the Bhavana in the National level tests like, GATE and NET and other equivalent exams have been very encouraging. In the year under report, a large number of students have qualified in UGC-CSIR NET and GATE and JEST Examinations.

DEPARTMENT OF PHYSICS

1. Name of the Department and detailed information

The Department of Physics, Visva-Bharati was established in 1963 with a provision for teaching at the B.Sc. Honours level. Subsequently, the M.Sc. Teaching programme was started in 1968 along with the efforts to develop research facilities in Physics. Initially the Department laid more emphasis on theoretical research due to its constraints. Gradually, with the support from different funding agencies, research works on theoretical as well as experimental physics had been started on a wide range of fields. Presently, in theoretical physics the faculty members are working on particle physics, scattering theory, many body interactions, super symmetric quantum mechanics, quantum optics, lattice dynamics, astrophysics, cosmology, etc. The areas covered by experimental research are microwave electronics, nuclear physics, radiation physics, condensed matter physics using nuclear techniques, nanoscience, molecular magnetism, Mössbauer spectroscopy, experimental particle physics, etc. Several research projects were being carried out with support from different funding agencies, e.g., DST, DAE, AERB, UGC, CSIR, IUC, IUAC, etc. In addition, experimental works using the major accelerator facilities at VECC, NSC and TIFR were also going on.

The Department is an associate centre of the Theoretical Physics Seminar Circuit. Some faculty members are having research collaborations with institutions abroad. Eminent scientists from our country and abroad regularly visit this department. The Department has been taking an active role in the curricular development at both the P.G. and U.G. Level. Presently the Department is offering six special papers (Condensed Matter Physics, Particle Physics, Electronics, Quantum Electronics, and Astrophysics & Cosmology and Nuclear Physics) at the Post-Graduate level. The 'Computer Applications' courses to the Under-Graduate as well as Post-Graduate students have been in effect since 1987 as knowledge in Computational Physics is now-a-days considered an essential ingredient of a Physics Curriculum. Students are trained in such a way that they can cope with their future requirements after passing out of the P.G. Level.

2. Name of the students qualified in UGC / CSIR / NET / SLET / JEST / GATE Examinations. JEST 2013:

- Sayan Das
- Malay Pal
- Sanjoy Mandal
- Alok Kr. Ghosh

GATE 2013:

- Rakesh Das
- Alok Kr. Ghosh
- Manjira Bagchi
- Malay Pal
- Sayan Das
- Sanjoy Mandal
- Sourav Kr. Dey
- Chiranjit Nandi

NET 2012:

- Sayan Das
- Malay Pal
- Sanjoy Mandal
- Rakesh Das
- Suman Sarkar
- Uttiya Dasgupta

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Departmental Seminar / Symposia

Talks were delivered by the following Teachers / Visitors in the Department.

1. Prof. Kaushik Roy IACS, Jadavpur, Kolkata March 22, 2013

4. National and International standard Conference / Seminar / Workshop / Exhibition etc. attended by teachers/ Research Scholar in detail

T Chattopadhyay:

Conference attended "5th International Conference on Computers and Devices for Communications (CODEC-2012)", Institute of Radio Physics and Electronics, University of Calcutta, Hyatt Regency, Kolkata, India, December 17-19, 2012.

S. N. Chakraborty:

1. DST-INSPIRE LECTURE, December 12-14, 2012, Visva-Bharati (one lecture).
2. DST-INSPIRE LECTURE, January 5-9, 2013, Birbhum Institute of Engineering and Technology (two lectures).
3. Lecture in Refreshers Course in Physics, University of Burdwan, January 29, 2012.

A. Bhattacharjee

1. Bhattacharjee, A., Mandal, H., Roy, M., Kusz, J. and Hofmeister, W., International Conference On Global Scenario In Environment and Energy (ICGSEE2013), MANIT, Bhopal, India, 14-16th March 2013.
2. Roy, D., Roy, M. and Bhattacharjee, A., TSNSCMPLA-2013, Burdwan University, WB, 5-7 March, 2013.
3. Bhattacharjee, A., Bhakat, D., Sen, R. and Koner, S., TSNSCMPLA-2013, Burdwan University, WB, 5-7 March, 2013.
4. Barik, P., Bhattacharjee, A., and Roy, M., Int. Conf. on Recent Advances in Composite Materials (ICRACM 2013), Goa (Org. by BHU), Feb 18-21, 2013,
5. Rooj, A., Roy, M. and Bhattacharjee, A., International Workshop on Nanomaterials (IWON 2012), JU, 14-15 Dec, 2012.
6. Barik, P., Bhattacharjee, A. and Roy, M., International Workshop on Nanomaterials (IWON 2012), JU, 14-15 Dec, 2012

Manas Maity:

1. HiggsStop 2013, Birla Institute of Technology & Science, Goa Campus, February 25-27, 2013
2. SERC School on Theoretical High Energy Physics (Preparatory Level), October 03-08, 2012, University of North Bengal. (Guest Faculty for a course on Statistical Methods in Physics)
3. Search for the Charged Higgs Boson(s), Invited talk, HiggsStop-2013, Birla Institute of Technology & Science, Goa, February 25 - 27, 2013
4. Large Hadron Collider - a tale of questions and quest, Paschimbanga Vigyan Mancha, Berhampore, September 30, 2012

Conference/Workshops organised:

- i. Convener, XIX DAE-BRNS High Energy Physics Symposium held during 14-18 January, 2013 at Santiniketan.

B C Gupta

1. National and International standard conferences :
Attended the National Workshop : EXFOR 2013 (February 17-23, 2013) at B.H.U., Varanasi, India.
2. National Symposium on Condensed Matter Days during 29-31 August, 2012, Birla Institute of Technology, Mesra.

S. K. Mandal:

1. Pronounced Multiferroicity in Oleic Acid Stabilized BiFeO₃ Nanocrystals at Room Temperature, Dabbugalla Mahesh, Swapan K. Mandal, Bipul K. Mahato, Bivas Rana, and Anjan Barman, 5th Bangalore Nano, Dec. 5-8, 2012, Bangalore, India.

2. Structural and Optical Properties of Single Crystalline Bismuth Nanoparticles in Polymer, L. Kabir and Swapan K. Mandal, International Conference on Ceramics, Dec. 12-13, 2012, Bikaner, India .

B. Mukherjee:

1. Participated and delivered a lecture titled "Spectroscopic studies of super deformed bands in cu nuclei" at IUAC, New Delhi(September 18-19,2012).
2. Participated in Science Academics' two week Refresher course on Experimental Physics at Indian Academy of Sciences, Bangalore. (November 15-30,2012).

On going Research Projects in the Department.

S.N. Roy

Name of the Project : EXFOR compilation of nuclear "EXFOR COMPILATION OF NUCLEAR"

Reaction Data

Sponsoring Agency : DAE-BRNS, Govt. of India

Sanctioned Amount : Rs.10,71,200/- (April 2012 - March 2013)

T. Chattopadhyay :

Name of the Project : Nonlinearities and synchronization of quantum cascade laser.

Sponsoring Agency : UGC, India

Sanctioned Amount : Budget: Rs. 5,44,021/- (May 01, 2009-April 30, 2012.)

A. Sengupta:

Name of the Project: Effects of annealing on free volume and chain mobility in pilot fluoroelastomers investigated by non-destructive measurement protocol

Sponsoring Agency: SERC, DST, Govt. of India.

Sanctioned Amount: INR 34,20,200.

Name of the Project: Measurement of occupied and Free Volume in Polyethylene by Raman Spectra and Positron Annihilation Lifetime Spectroscopy.

Sponsoring Agency: UGC, MHRD, Govt of India.

Sanctioned Amount: INR 9,33,000

M. Maity:

Name of the Project : India-LHC Grid Collaboration - Enhancement of Regional Worldwide Computing Grid(WLCG).

Sponsoring Agency : Department of Science & Technology, Government of India.

Sanctioned Amount : Rs. 29.7 lakhs, April 2009 - March 2013.

Study of New Particles with the CMS at the Large Hadron Collider and Heavy Ion Physics with the LHC at CERN, Department of Science & Technology, Government of India, Rs. 431.30 lakhs, April 2009 - March 2014

T. K. Kundu:

Name of the Project : Metal nanoparticles embedded in oxide thin films for memory device application.

Sponsoring Agency : UGC, New Delhi India.

Amount Sanctioned : Rs. 7.46 lacs.

A. Bhattacharjee:

Name of the Project: Electrical, Magnetic and Microstructural Characterization of some Composite Biopolymer

Sponsoring Agency: CSIR, Govt. of India

Sanctioned Amount: Rs. 15.74 Lacs excluding OVERHEAD GRANT (Tenure: JULY, 2011 - JUNE, 2014)

S. K. Mandal:

Name of the Project : Chemical synthesis and physical properties of multiferroic nanostructures.

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Sponsoring Agency : CSIR.

Amount Sanctioned : Rs. 15 Lacs

B. Mukherjee:

Name of the Project: Measurement of prompt proton decays in $N = Z$ nuclei using Indian Gamma Detector Array.

Sponsoring Agency : Inter-University Accelerator Center, New Delhi (an autonomous center of UGC).

Amount Sanctioned : One UFR fellowship plus consolidated INR 25,000/- per year for 3 years.

S. Roy:

Name of the Project: Experimental study of percolation phenomenon through contactless techniques. (F.No.41-1402/2012(SR) dated 30.07.2012)

Sponsoring Agency: UGC, India

Amount Sanctioned: Rs. 1,70,000/-

Extension activities / NSS / Cultural and other activities organised by the Department and participated by the Teachers and students of the Department.

Academic distinctions gained by the Teachers / Scholars of the Department as a whole (Like recognition as a D.S.A or C.A.S. etc.)

T. Chattopadhyay:

1. Referee - "Electronic Letters (UK)"
2. Referee - "Microwave Antennas and Propagation (UK)"
3. Senior member of IEEE (USA)
4. Fellow of IETE (India)

Book Publication within the year April 2012 - March 2013

T. Chattopadhyay:

- i. Tarapasrad Chattopadhyay, "Advanced electronics," CBS Publishers, New Delhi, 2013.

T. Chattopadhyay:

- i. Tarapasrad Chattopadhyay and Prosenjit Bhattacharyya, "A Scheme for Low Noise Optical Pulse Generation," Journal of Optics (Springer), 2013 (online).
- i. Tarapasrad Chattopadhyay and Prosenjit Bhattacharyya, "Subcarrier-Multiplexed Phase-modulated Optical Signal Amplification by a Synchronized Quantum Cascade Laser," Journal of Optical Communication, vol. 33, no. 2, pp. 63-68, 2012.
- ii. Tarapasrad Chattopadhyay, "A Millimeter-Wave Radio-Over-Fiber System for Overcoming Fiber Dispersion-Induced Signal Cancellation Effect," Optoelectronics Letters (Springer), vol.8, pp. 293-296, no.4, July 2012.

Arpita Ghosh and Somenath Chakrabarty:

- i. The Effects of Strong Quantizing Magnetic Fields on the Cold Emission of Electrons from Ultramagnetized Compact Stellar Objects, Mon. Not. R. Astron. Soc. 425, (2012) 1239

A. Bhattacharjee:

- i. Bhattacharjee, A., Roy, M., Ksenofontov, V., Kitchen, J. A., Brooker, S., and Gütlich, P., "Pressure Effect Studies on the Spin Transition Behavior of the Dinuclear Iron(II) Compound $[\text{FeII}_2(\text{PMAT})_2](\text{BF}_4)_4 \cdot \text{DMF}$ ", Eur. J. Inorg. Chem. Chem. (2013) 843-849.
- ii. Bhattacharjee, A., Roy, D., Roy, M., Adhikari, A., "Thermal degradation of molecular magnetic material - $\{N(\text{n-C}_4\text{H}_9)_4[\text{Fe}(\text{II})\text{Fe}(\text{III})(\text{C}_2\text{O}_4)_3]\}_\infty$: A reaction kinetics study". Serb. J. Chem. Soc. 77 (2013) 1-18.
- iii. Bhattacharjee, A., Roj, A., Roy, M., Kusz, J., Gütlich, P., "Synthesis of hematite nanoparticles through solventless thermal decomposition of ferrocene modulated by oxalic acid". J. Mater. Sci. (Springer) 48 (2013) 2961-2968.

- iv. Bhattacharjee, A., Roy, D., Roy, M., "Thermal decomposition of molecular materials $\{N(n-C_4H_9)_4[MIIFeIII(C_2O_4)_3]\}$, $MII = Zn, Co, Fe$ ". Int. J. Thermophys. (Springer) 33 (2012) 2351-2365.
- v. Bhattacharjee, A., Roy, D., Roy, M., "Thermal degradation of a molecular magnetic material $\{N(n-C_4H_9)_4[MIIFeIII(C_2O_4)_3]\}$ ". J. Thermal Analysis & Calorimetry 109 (2012) 1423-1427.

Manas Maity:

- i) A new boson with a mass of 125-GeV observed with the CMS experiment at the Large Hadron Collider, CMS Collaboration, Science 338 (2012) 1569-1575
- ii) Study of the mass and spin-parity of the Higgs boson candidate via its decays to Z boson pairs, CMS Collaboration, Phys. Rev. Lett. 110, 081803 (2013)
- iii) Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC, Phys.Lett. B716 (2012) 30-61
- iv) Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 7$ TeV, Phys.Rev.Lett. 109 (2012) 171803

T.K.Kundu:

- i) Surface conductivity of aligned carbon nanotubes in silica gel, A. Dan, T. K. Kundu and D. Chakravorty, International Journal of Nanoelectronics and Materials 6, 67 2013.
- ii) Photoluminescence in Fe³⁺ ion doped barium titanate nanoparticles, P. Barik, T.K. Kundu, Nanosystems: Physics, Chemistry, Mathematics, 4 (2), 1-7, 2013.

B. C. Gupta:

- i) Delivered lecture titled "Nanowire, nanotube and their interaction with semiconducting substrates" on 16th November 2012 in the Dept. of Physics, Jadavpur University.
- ii) National Symposium on Condensed Matter Days during 29-31 August, 2012, Birla Institute of Technology, Mesra.

S. K. Mandal:

- i) Pronounced Multiferroicity in Oleic Acid Stabilized BiFeO₃ Nanocrystals at Room Temperature, Dabbugalla Mahesh, Swapan K. Mandal, Bipul K. Mahato, Bivas Rana, and Anjan Barman, J. Nanosci. Nanotechnol. 2013 (accepted).
- ii) High ferromagnetic transition temperature in PbS and PbS:Mn nanowires, S. K. Mandal, A. R. Mandal and S. Banerjee, ACS Appl. Mat. Interfaces 4, 205 (2012).
- iii) Controlled chain polymerization and chemical soldering for single-molecule electronics, Y. Okawa, M. Akai-Kasaya, Y. Kuwahara, S. K. Mandal and M. Aono, Nanoscale 4, 3013-3028 (2012).
- iv) Methanol sensing characteristics of conducting polypyrrole-silver nanocomposites, L. Kabir and S. K. Mandal, Eur. Phys. J. Appl. Phys. 58, 20402 (2012)

B.Mukherjee:

- i) Charged particle detector array for GDA, S.Muralithar, B.Mukherjee, R.P.Singh, G.Mukherjee, P.Joshi, A.Punithan, B.Sahu, A.Gupta, R.Ahuja, R.Ram, S.Rao, S.K.Saini, J.Zacharis and R.K.Bhowmik, Nuclear Instruments and Methods in Physics Research A (in press),2013.
- ii) De-Excitation of hot rotating nuclei near proton dripline, J.Ray, U.duttaparamanik, S.Ganguly, R.K.Bhowmik, S.Chakrabarty, A.Chakrabarty, R.Garg, S.Goyal, S.Kumar, S.Mandal, B.Mukherjee, S.Muralithar, D.Negi, A.Rahaman, M.Saxena, K.Selvakumar, I.Ray, PurnimaSingh, A.k.Singhand R.P.Singh, Proceeding of the DAE Symposium on nuclear physics.Vol.57 p-368-369,2012
- iii) Exotic decay of excited nuclei near proton dripline, J.Ray, U.Duttaparamanic, R.k.Bhowmik, S.Chakrabarty, A.Chakrabarty, R.Garg, S.Goyal, S.Ganguly, S.Kumar, S.Mandal, B.Mukherjee, S.Muralithar, D.Negi, A.Rahaman, M.Saxena, K.Selvakumar, I.Ray, PurnimaSingh, A.K.Singh and R.P.Singh,Physical Review C(Communicated), 2013.

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Conference Proceedings:

T. Chattopadhyay

1. Taraprasad Chattopadhyay, Prosenjit Bhattacharyya and Sujit Das, "All Optical Microwave / Millimeter Wave Frequency Division," - Proceedings of the (IEEE) 5th International Conference on Computers and Devices for Communications (CODEC-2012), Institute of Radio Physics and Electronics, University of Calcutta, Hyatt Regency, Kolkata, India, December 17-19, 2012.

T.K.Kundu:

1. Visible luminescence from triethanolamine-modified zinc oxide nanoparticles
N. Karak, P. Barik and T.K.Kundu, International Conference on Recent Trends in Applied Physics & Material Science, at Govt. College of Engg & Technology, Bikaner in February 01-02, 2013.
2. Effect on Co doping on optical Behaviors in ZnO Nanorods A. Ghosh, N. Karak and T.K.Kundu, Fourth International Conference on Recent Advances in Composite Materials, at International Centre, Goa, in February 18-21, 2013.

Designing New Courses / Curriculam or any other teaching innovations introduced by the Department.

A brief history on the development of the Bhavana / Sadana / Vibhaga concerned with an indication of the future plans for development.

Any other relevant information, which in the opinion of the Head of the Department is worth-reporting should be included.

Particulars in details of the Departmental Library.

- i. Area in (Sq. meter) quoted for the library: 600 sq. ft.
- ii. Is there separate provision for Reading Room: No.
- iii. Total No. of books: 2000 approx
- iv. Total Number of books purchased during the year: 100 approx
- v. Total Number of Periodicals: 10
- vi. Total Number of Periodicals purchased during the year: 10

Department of Chemistry

The Department of Chemistry has started its undergraduate programme in 1962 and postgraduate programme in 1969. In spite of infrastructural and funding deficiencies the department's overall performance has been very satisfactory. The students are performing excellently in GATE, NET and several other competitive examinations of repute. The Department is actively engaged in research in the fields of Natural Products, Synthetic Organic Chemistry, Green Chemistry, Supramolecular Chemistry, Coordination Chemistry, Solution Chemistry, Biochemical Thermodynamics, Non-conventional energy sources, Analytical Chemistry and Theoretical Chemistry. The Department has introduced new courses in the field of applied chemistry and advanced courses in existing fields. It has published about (91) papers in this academic session.

Name of the Students qualified in UGC/CSIR/NET/GATE Examinations:

1. Kaushik Pal (NET & GATE)
2. Said Md. Pratik (NET & GATE)
3. Koushik Ghosh(NET)
4. Nibedita Nandi(NET & GATE)
5. Radhamadhab Laha (NET)
6. Sumendranath Mukhopadhyay (NET)
7. Ramakanta Mandal (NET & GATE)
8. Nirmita Chakraborty(NET)
9. Rishi Sen (NET)
10. Surojit Saha (NET)
11. Saikat Chowdhury (NET & GATE)
12. Biswajit Bhattacharyya (NET & GATE)
13. Pijus Malpharia (NET)
14. Kesob Mondal(NET & GATE)
15. Amit Kumar Simlandi (NET & GATE)
16. Mrinal Kanti Das (NET)
17. Kalishankar Bhattacharyya (NET)
18. Nani Gopal Ghosh(NET & GATE)
19. Sayan Dutta (NET)
20. Debal Kanti Singha (NET & GATE)
21. Kausik Prmanik (GATE)
22. Chandra Chowdhury (GATE)
23. Narayan Chandra Saha (GATE)
24. Abir Majee (GATE)
25. Trisha Das (GATE)
26. Santu Kumar Pal (GATE)
27. Sayantan Acharya (GATE)
28. 23. Prosenjit Saha(GATE)
29. Surajit Haldar(GATE)
30. Subhrakanti Roy (GATE)
31. Tapan Sahoo(GATE)

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Departmental Seminars/Conferences/Workshops:

Sl. No.	Name of the Speaker	Title of the Seminar/Conference/Workshop
1.	Prof. S. Duttagupta, Vice-chancellor, Visva- Bharati; Prof. B. M. Deb, IISER Kolkata; Prof. B. C. Ranu, IACS Jadavpur; Prof. P. K. Chattaraj, IIT Kharagpur; Prof. Samaresh Bhattacharyya; Dr. Suhrit Ghosh, IACS Jadavpur;	Recent Developments in Chemistry 29th November - 1st December, 2012
2.	Dr. Gautam Gangopadhyay S. N. Bose National Center for Basic Sciences, Salt Lake; Kolkata	Master equation approach to heterogeneous enzyme catalysis 22.07.2012
3	Dr. Apurba L. Koner, Department of Chemistry, IISER Bhopal, India	Non-covalent chemistry in a confined nanospace and its applications. 23.02.2013

Ongoing Research Projects in the Department:

Name of the Investigator	Title of the Project	Sponsoring Agency	Sanctioned Amount
Prof. Pranesh Chowdhury	Development of high performance ion exchange resin based on quaternized polymers for selective extraction of chromium from industrial wastewater. No.01(2392)/10/EMR-II	CSIR, New Delhi.	Rs.17.2 L
	Development of new biocompatible hybrid materials based on grafting organic polymers onto inorganic nanomaterials. No.01(2444)/10/EMR-II	CSIR, New Delhi	Rs.18.3 L
	Development of organic-inorganic hybrid (nano) materials and their biological relevance No.SR/S3/ME/0018/2010	DST, New Delhi.	Rs.35.5 L
Prof. Goutam Brahmachari	A sincere drive to develop eco-friendly methodologies for some useful organic transformations in the absence of organic solvents.No.02(0110)/12/EMR-II	CSIR, New Delhi.	Rs. 12.65 L
Dr. S. K. Chandra	Transition Metal Compounds with Potential Bridging Function Containing Polydentate Ligands	CSIR, New Delhi.	Rs. 13 L
	Synthesis, structure, characterization and magnetic properties of transition metal complexes with multidentate ligands	DST, New Delhi.	Rs. 25 L

Dr. Gourab Kanti Das	Theoretical investigation on the mechanisms of various transformations of biomolecules by cofactor dependent enzymes.	UGC, New Delhi.	Rs. 7.10 L
Dr. Alakananda Hajra & Dr. Adinath Majee	Ionic liquids and catalysts with ionic tag: Preparation and their application in organic synthesis.(SR/S5/GC-05/2010)	DST, New Delhi.	Rs. 38.25 L
Dr. Alakananda Hajra	Dye sensitized solar cell: photoinduced electron transfer in porphyrin based donor-acceptor dyads attached to nanostructured films.	BRNS, India.	Rs. 31.045 L
Dr. Adinath Majee	Development of some 'one pot multi-component reaction' involving carbon-heteroatom bond formation by using Cu salt, Indium salt and L-Proline as catalyst. No. PSW-171/11-12.	UGC, New Delhi.	Rs. 1.92 L
Dr. Naznin A. Begum	Studies on biogenic synthesis of metal nanoparticles with tailor-made structural properties. No. 01(2504)/11/EMR-II	CSIR, New Delhi.	Rs. 19.01 L
	To study the mechanism of antioxidant as well as dna damage prevention activities of different natural occurring flavonoids and their synthetic derivatives. No. SR/SO/BB-0007/2011	DST, SERB, New Delhi.	Rs. 40.70 L
Dr. Kartick C. Bhowmick	Asymmetric catalysis in water/aqueous media: Design and Applications of Chiral Catalysts for C-C Bond-forming Reactions	DST, New Delhi	Rs. 16.56 L
Dr. Biswajit Dey	Exploitation of intriguing supramolecular features of various metallosupramolecular networks of transition metal ions with N,S,O-donor organic ligands in water media. No. SR/FT/CS-77/2011	DST, New Delhi. (Fast Track Project)	Rs. 24.8 L
Dr. Sudip Kumar Mondal	Better Understanding of Electrostatics and Dynamics in Protein and their Role in Protein Function Using New Synthetic Fluorescent Amino Acids as Probe. No. F. 20-5(17)/2012(BSR). (Start-Up-Grant for newly recruited faculty at Assistant Professor level in Science Department)	UGC, New Delhi.	Rs. 6 L
Dr. Shovan Mondal	Synthesis of bioactive heterocycles. No. IFA12-CH-56	DST, New Delhi.	Rs. 35 L

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Invited lectures/ Oral presentations/ Poster presentations in National and International Conferences/ Seminars/ Workshops/ Exhibitions etc.

Sl. No.	Name of the Speaker	Name of the National and International Conferences/ Seminars/ Workshops/ Exhibitions etc.	Title of the Lectures/Presentations
1	Prof. Indra Narayan Basumallick	Indo-US Workshop on Electro-catalytic Materials for Fuel and Bio-fuel Cells, held at Banaras Hindu University during 26-02-2013 to 28-02-2013.	Nano Sized Pt-Ru Electrocatalysts for Ethanol and Ethylene glycol Oxidation. (Invited lecture)
		National Seminar on Recent Advances in Polymer Science and Technology (POLY-2012) held at North-Bengal University during 2-4 November 2012.	Recent Advances on Polymer Batteries. (Invited lecture)
2	Prof. Pranesh Chowdhury	National Seminar on Recent Advances in Polymer Science and Technology. Department of Chemistry, North Bengal University, November 2-4, 2012.	Recent progress in polymer nanoparticles and nanocomposites. (Invited lecture)
3	Prof. Pranab Sarkar	International Conference on "Electronic Structure and Dynamics of Molecules and Clusters", IACS, Jadavpur, 17-20th March, 2013.	Conferences Attended
		International Workshop on "Nanomaterials:Engineering Photon and Phonon transport", Jadavpur University, Jadavpur, 14-15th December, 2012.	Conferences Attended
		Lecture Workshop on "Recent Developments in Chemistry", Dept. of Chemistry, Visva-Bharati, Santiniketan, 29th November- 1st December, 2012.	Conferences Attended
4	Dr. Bhabatosh Mandal	National seminar on Recent Advances In Polymer Science and Technology (Poly-2012); Nov 2-4: 2012	Extraction chromatography of Heavy and Toxic Metal ions with functionalized silica gel. (Invited lecture)

		Lecture Workshop on "Recent Developments in Chemistry", Dept. of Chemistry, Visva-Bharati, Santiniketan, 29th November-1st December, 2012.	Conferences Attended as HOD and Chairman
5	Dr. Gourab Kanti Das	Refresher Course in Chemistry organised by Academic Staff College, University of Calcutta during August 22 - September 11, 2012 held in University College of Science & Technology, Kolkata-700 009.	Drugs for diseases caused by chemical imbalance of histamine. (Invited lecture)
		4th International Conference for Young Chemists 2013, held at Georgetown, Penang, Malaysia during 30th January to 1st February, 2013.	Revisited the mechanism of [1,3]-hydrogen shift in allene derivatives: A theoretical study. (Poster presentation)
6	Dr. Alakananda Hajra	National Workshop on Green chemistry: A way to sustainable development, December 27-28, 2012 organized by Dept of Chemistry, Sripat Singh College, Murshidabad	Green Chemistry & Catalysis for Sustainable Organic Synthesis (Invited lecture)
		National Seminar on Green Chemistry and Sustainable Agriculture Practices February 1-2, 2013 organized by Dept of Chemistry, Panchakot Mahavidyalay, Purulia	Green Chemistry & Catalysis for Sustainable Organic Synthesis (Invited lecture)
		National Seminar on Organocatalysis: New methodologies for sustainable chemistry March 23-24, 2013 organized by Dept of Chemistry, P K college, Contai	Task Specific Ionic Liquids: Resourceful Organocatalyst for Sustainable Synthesis (Invited lecture)
7	Dr. Adinath Majee	National Conference on Green chemistry and Sustainable Agriculture: A step to better future. Organised by Department of Chemistry, Panchakot Mahavidyalaya held on 1-2nd February, 2013	Why do we need a green Chemistry? (Invited lecture)
		CRSI Symposium (X) on "Modern Trends in Chemistry" August 2012, Department of Chemical Science, IISER Kolkata, (Mohanpur Campus)	Conferences Attended
		"International Symposium on Molecular Organization and Complexity: A Chemical Perspective"	Conferences Attended

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		Organised by Department of Chemistry, University of Calcutta, Kolkata- 700009, held on 6-8th February 2013	
		Lecture Workshop on "Recent Developments in Chemistry", Dept. of Chemistry, Visva-Bharati, Santiniketan, 29th November-1st December, 2012.	Conferences Attended as convenor
8	Dr. Bijoy Krishna Dolui	A short term course on 'Disaster Management' from 9th to 15th March 2013 at UGC Academic staff college, Burdwan University.	Attended
9	Dr. Bidhan Chandra Bag	Theoretical Physics Seminar Circuit, Institute of Physics, Bhubaneswar, India (2013)	Non linear dynamics of a charged particle in presence of a magnetic field. (Invited lecture)
		10-th symposium of the CRSI (Kolkata Chapter) on Current Trends in Chemistry	Synchronization kinetics: Life time of the incoherent state of the coupled phase oscillators. (Poster presentation)
		Theoretical Chemistry Symposium, 2012 (IIT Guwahati)	The non linear dynamics of a charged particle: Magnetic field induced chaos. (Poster presentation)
		International Symposium on Molecular Organization and Complexity: A Chemical Perspective. Organized by University of Kolkata.	Time dependent magnetic field induced chaos 2A in a linear system. (Poster presentation)
10	Dr. Manas Ghosh	International symposium on Molecular Organization and Complexity: A Chemical Perspective. Organized by Department of Chemistry, University of Calcutta, 06-08 February, 2013.	Excitation in Impurity Doped Quantum Dots Insisted by Discontinuous Field. (Poster presentation)
11	Dr. Naznin A. Begum	International Conference on Nanoscience and Technology (ICONSAT 2012) (Organized by DST-Nano Mission and ARCI) in Hyderabad during 20-23 January, 2012.	Biogenic materials and their chemical constituents: Promising "Green Chemical Tools" for the synthesis of metal nanoparticles with fascinating Morphologies. (Oral presentation)

12	Dr. Kartick C. Bhowmick	15th CRSI National Symposium in Chemistry held at Benaras Hindu University, Varanasi, U.P., India between 1-3rd February, 2013	A comprehensive study on the effect of acid additives in 1(R),2(R)-Bis[(S)-prolinamido]cyclohexane catalyzed direct asymmetric aldol reactions in aqueous media (Poster presentation)
		Lecture Workshop on "Recent Developments in Chemistry" between 29th November - 1st December, 2012, organized by Department of Chemistry, Siksha-Bhavana, Visva-Bharati.	Conferences Attended
13	Dr. Shovan Mondal	International Symposium- 2nd UK-India Med Chem Congress held at CSIR-Indian Institute of Chemical Technology, Hyderabad, India during 22-23 March, 2013	Synthesis of bioactive heterocycles via cascade rearrangement of enediynes with memory of chirality (Poster presentation; Best poster award from RSC Publishing)
		Lecture Workshop on "Recent Developments in Chemistry", Dept. of Chemistry, Visva-Bharati, Santiniketan, 29th November-1st December, 2012.	Conferences Attended

List of publications in (i) Text books (ii) Other books (iii) Monographs (iv) Research papers in peer reviewed journals (National and International).a

Sl. No.	Name	Details of the publications
1	Prof. Indra Narayan Basumallick	1) A Microbial Fuel Cell for Starch Oxidation ; Subhodip Ghosh, Someswar Chatterjee, Moitrayee Chatterjee, Susanta Ghosh, Indra Narayan Basumallick; ECS Trans, 2012,41(11), 37-41
2	Prof. Asim Kumar Das	1) Fundamental Concepts of Inorganic Chemistry in press, Vol 4-7, CBS Publishers & Distributors Pvt. Ltd.
3	Prof. Pranesh Chowdhury	1) Selective solid phase extraction of Cr(VI) using silica gel immobilized 4-vinyl pyridine /Cupric ion complex; P. Mondal, K. Roy, S. P. Bayen, S.K.Saha, S.Chatterjee, P. Chowdhury, Separation Science and Technology, 47, 1651-1656, 2012 2) Chemical and biochemical activities of sonochemically synthesized poly(N-isopropyl acrylamide)/silica nano composite; P.Chowdhury, S.K.Saha, A.Guha, S.K.Saha, Applied Surface Science, 261, 598-604, 2012

Prof. Pranab Sarkar

- 3) Sonochemical synthesis of polypyrrole salt and study of its Cr(VI) sorption-desorption properties, P. Mondal, K. Roy, S. P. Bayen, P. Chowdhury, Journal of Macromolecular Science-Part A; Pure and Applied Chemistry, 49, 931-935, 2012
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Conference Proceedings

Sl. No.	Details of the proceedings
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1	"Quantitative immobilization of thioacetamide onto inorganic polymers for simultaneous detection and separation of mercuric ions", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.33.
	P. Chowdhury, S.K. Saha
2	"Design and synthesis of bioactive poly(vinyl alcohol) capped silver nanoparticles", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.50.
	P. Chowdhury, B. Roy
3	"Sonochemical synthesis of biocompatible poly(N-isopropyl acrylamide)/silica nanocomposite", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.52.
4	"A comprehensive study on the effect of acid additives in 1(R),2(R)-Bis[(S)-prolinamido]cyclohexane catalyzed direct asymmetric aldol reactions in aqueous media"- S. Bhowmick, S. S. Kunte and Kartick C. Bhowmick; Proceedings of the 15th CRSI - 7th RSC National Symposium in Chemistry, 1-3rd February, 2013, Benaras Hindu University, Varanasi, India, P-275.
5	Computational studies on the decarboxylation of amino acids by Pyridoxal-5'-phosphate dependent enzymes, Kuheli Chakrabarty, Sampad Narayan Gupta, Atanu Basak and Gourab Kanti Das, in International Congress of Young Chemists held in Warsaw University of Technology, Gdansk, Poland during 10th - 14th October, 2012. Abstract appeared in page 67.
6	Molecular dynamics studies on the thermostability of two xylanases sharing highest sequence similarity, Kuheli Chakrabarty, Sampad Narayan Gupta, Swadesh Ranjan Biswas and Gourab Kanti Das, in International Congress of Young Chemists held in Warsaw University of Technology, Gdansk, Poland during 10th - 14th October, 2012. Abstract appeared in page 87.
7	Molecular dynamics simulation studies of xylanase enzyme, Kuheli Chakrabarty, Atanu Basak, Sampad Narayan Gupta, Animesh Ghosh and Gourab Kanti Das, in International Conference on Interface between Chemistry and Environment (ICICE), in Ramjas College, University of Delhi during 13th-14th December 2012.
8	Theoretical Study on the mechanism of allene and allenamide isomerisation to conjugated diene. Atanu Basak, Kuheli Chakrabarty, Sampad Narayan Gupta, Gourab kanti Das, in Theoretical Chemistry Symposium 2012 in Department of Chemistry, IIT, Guwahati during December 19-22, 2012. Abstract appeared in page 217.
9	"Synthesis of bioactive heterocycles via cascade rearrangement of enediyne with memory of chirality" Shovan Mondal, Michele P. Bertrand and Malek Nechab in International Symposium- 2nd UK-India MedChem Congress held at CSIR-Indian Institute of Chemical Technology, Hyderabad, India during 22-23 March, 2013. Abstract appeared in page 194.

Other relevant information

1. DST-FIST-I (Phase-II) assisted
2. UGC-SAP assisted

New Courses developed for Teaching (by Dr. S. K. Chandra).

The following courses have been designed for teaching for Integrated Science Education and Research Centre, Visva-Bharati University in the year 2012-13 for Semester VII & VIII.

Part of Course paper Sem-VII-CH-4-7-1

Molecules to Materials: Part 1

Introduction to Coordination Molecules, Ligands and its classification, Stereochemistry of Coordination Compounds, Crystal Field Theory and its application towards influencing magnetic behaviour of Complexes, Existence of High-Spin, Low-Spin and Intermediate Spin in Coordination Molecules, Quenching of Orbital Angular Momentum.

Basic concepts of magnetism, Magnetization and Magnetic Susceptibility, Types magnetic behaviour: Isolated and Cooperative Nature (dia-, para-, ferro-, ferri- and antiferro- etc.), Curie and Curie-Weiss laws, Temperature dependence of different types of compounds, Temperature independent paramagnetism.

Origin and Usefulness of Diamagnetic Correction and Utilities of Pascal's Constants. Determination of Magnetic Susceptibility, Spin-Orbit Coupling, Spin-Orbit Coupling Constant, Usefulness of s and j equation respectively for transition and inner transition series.

Part of Course paper Sem-VIII-CH-4-8-1

Molecules to Materials: Part 2

Mechanism of Magnetic Exchange Interactions, Prediction of Magnetic Properties (theoretical and experimental {bridging mode} approach), Quantitative Approach to Magnetic Exchange Interactions, Deliberate Synthetic Approaches to Ferromagnetically Coupled Systems, Accidental Orthogonality, Magnetization versus field studies, Calculation of ground state and spin manifold, Canting/hidden canting and Weak Ferromagnetism, Spin frustration.

Polynuclear Transition Metal Compounds: Magneto-Structural Correlations, Single Molecule Magnet (SMM) & Single Chain Magnet (SCM): Background, Properties and importance's of SMM and SCM, Approach to Magnetic Materials.

Department of Mathematics

Name of the students qualified in UGC / CSIR- NET, SET, GATE

Sl No.	Name	UGC/ CSIR -NET/ SET/GATE
1	Aryaman Sensarma	CSIR-NET JRF, GATE
2	Riddhick Birbonshi	CSIR-NET JRF, GATE
3	Sudeep Kundu	CSIR-NET JRF, GATE
4	Manik Das	UGC-NET JRF, GATE
5	Sudipto Ghosh	CSIR-NET JRF
6	Benukar Mondal	CSIR-NET JRF
7	Ranjit Mehatari	CSIR-NET JRF
8	Tushar Kanti Das	CSIR-NET Lectureship, GATE
9	Abhishek Banerjee	CSIR-NET Lectureship, GATE
10	Arnab Barman	CSIR-NET Lectureship, GATE
11	Tathagata Mandal	CSIR-NET Lectureship, GATE
12	Swaraj Paul	CSIR-NET Lectureship, GATE
13	Arnab Barman	CSIR-NET Lectureship
14	Debsmita Mukherjee	GATE
15	Manami Chatterjee	GATE
16	Prasenjit Saha	GATE
17	Sushovan Maity	GATE
18	Priyajit Mandal	GATE

Departmental Seminar (Speakers, Title of the Seminar, Date):

A. National Seminar

- Title of the National Seminar: "Mathematics for nonlinear systems"
- Date: March 17-18, 2013
- Objective of the National Seminar under UGC, SAP-DRS (Phase - II)

Nonlinear mechanisms are experienced in daily life as both controlled (motor vehicles) and uncontrolled systems (motion of fluids and celestial bodies). The Department of Mathematics at Siksha-Bhavana, the Institute of Science, has been actively engaged in mathematical research on non-linear systems for the last few decades and recently supported by UGC's Special Assistance Programme (since April, 2004). Its objective is to promote teaching and research concerning formulation and analysis of controlled and uncontrolled, quantitative and qualitative, discrete and continuous time nonlinear systems. Recent literature survey reveals a substantial development in both theory and applications (in areas of identification, simulation and design) of non-linear systems. There has been a great deal of excitement on the emergence of new mathematical techniques for the analysis, synthesis and control of nonlinear systems, the emergence of a set of simplified tools for the analysis of bifurcations, chaos and other complicated dynamical behaviors and the development of a comprehensive nonlinear control theory. Furthermore, technological advances have bolstered the impact of analytic advances and produced a tremendous variety of new problems and applications which are nonlinear in an essential way.

Pure mathematical approaches concern studies of systems and their structures that are inherently abstract and therefore, require specific mechanisms for validation whereas, applied mathematical approaches concern specific yet concrete problems and require general characterization. This study of abstract systems provides us an inner sight to a concrete rather real problem. Because of its instant thrill applications of nonlinear systems enjoy more attention than its theory. In this regard

it appear to the organizers that it might be useful to provide a platform to the researchers working on the theory in different areas of nonlinear mathematics to exchange their knowledge, problems and findings.

● List of Invited Speakers:

1. Prof. Sankar Kumar Pal, ISI, Kolkata
2. Prof. R. Sahadevan, Ramanujan Institute of Advanced Study in Mathematics, University of Madras, Chennai
3. Prof. G. Rangarajan, IISc, Bangalore
4. Prof. K. C. Chattopadhyay, Burdwan University, Burdwan
5. Prof. D. K. Ganguly, University of Calcutta, Kolkata
6. Prof. Sanjay Sen, University of Calcutta, Kolkata
7. Prof. Birendra Nath Mandal, ISI, Kolkata
8. Dr. Samarjit Kar, NIT, Durgapur

B. Visiting Professors to the Department

1. Prof. Sankar Kumar Pal, ISI, Kolkata, visited the Department of Mathematics and delivered a talk on Data Mining on 16 March, 2013
2. Prof. Riddhi Saha of JNU, Delhi, visited the Department of Mathematics 29, March, 2003 and delivered a talk on Dynamical Systems
3. Prof. P. G. Siddeshwar of Department of Mathematics, Bangalore University, Bengaluru, visited the Department of Mathematics on 26 March, 2013 and delivered a talk on some applications of Differential Transforms.

National and International Conference /Seminar/ Workshop/ Exhibition/Refresher Course/Orientation Programme etc. attended/participated by Teachers/Research scholars in details:

Syamal Kumar Samanta

1. Participated, acted as a committee member and chaired a session in the National Seminar on "Mathematics for nonlinear systems" held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Acted as a joint convener, participated and chaired a session in the two-day national seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

Puspajit Mandal

1. Participated, acted as a committee member and chaired a session in the National Seminar on "Mathematics for nonlinear systems" held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Acted as a joint convener, participated and chaired a session in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

Dulal Pal

1. Participated, acted as a committee member and chaired a session in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member and chaired a session in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

Santabrata Chakravarty

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

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Swapn Raha

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated in the International Conference on Rough Sets, Fuzzy Sets and Soft Computing (ICRFSC) and delivered an invited talk on Role of similarity in approximate reasoning on January 17, 2013, organized by the Department of Mathematics, Tripura University, Tripura.

P. Chatterjee

1. Participated, acted as a committee member and chaired a session in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated and delivered an Invited talk in the National Seminar on Mathematics & Applications, Department of Mathematics, The University of Burdwan, Burdwan, India (29 March, 2012).
4. Participated and delivered an Invited talk in the National Workshop on Nonlinear Waves: Theory and Simulation, Department of Mathematics, National Institute of Technology (NIT), Durgapur, India (14-18 January, 2013).
5. Delivered invited talks on "Life and Works of Ramanujan" at Rampurhat College, Rampurhat High School, Baharampur Science Club and Vidyasagar University.

Prashanta Kumar Mandal

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
3. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
4. Delivered an invited talk in the National Seminar on Computational Hemodynamics: Clinical and Engineering Aspects, organised by Jadavpur University, Kolkata, during August 17-18, 2012.
5. Participated in the 10th Micro-seminar on Nonlinear Phenomena held on 27 July, 2012 in the Department of Mathematics, University of Burdwan, Burdwan.

Madan Mohan Panja

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated and delivered an invited talk titled "Multiresolution analysis...Sturm-Liouville Problem" in the National Seminar on advances in Mathematics & applications, held during 6-7 March, 2013 at the Department of Mathematics, University of Burdwan, Burdwan.
4. Participated and completed the 3rd Indo-German workshop on Adaptive finite element methods (WAFEM-2013) held during 22 February, 2013 to 02 March, 2013 at the Institute of Mathematics & Application, Bhubaneswar, India.

Tarapada Bag

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated, acted as a committee member and chaired a session in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

3. Participated and presented a paper titled "Fixed point theorems in Felbin's type fuzzy normed linear spaces" in the National Seminar on Mathematical Analysis and Applications: Present Perspectives held during 06-07 September, 2012 at Calcutta Mathematical Society, Kolkata.
4. Participated and presented a paper titled "Some Results on Generalized Fuzzy Metric Spaces " held during 03-04 October, 2012 at Aliah University.
5. Participated and presented a paper titled "Strictly Convex Fuzzy Normed Linear Space" in the International Seminar held during 07-09 December, 2012 at Calcutta Mathematical Society, Kolkata.

Dibyendu Banerjee

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated and presented a paper entitled "Maximum modulus and maximum term of generalized iterated entire functions" in the National Seminar on Mathematical Analysis and Application Present Perspective (NSMAAPP-2012) held during September 6 - 8, 2012 at Calcutta Mathematical Society, Kolkata.
4. Participated and presented a paper entitled "Growth of Generalized iterated entire functions" in the National Seminar on Advanced in Mathematics & Applications (AMA-2013) held during March 6 - 7, 2013 at The University of Burdwan, Burdwan.

Tapas Ray Mahapatra

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Attended the National Seminar on "Mathematical and Computational Sciences" held in the Adikavi Nannaya University, Rajahmundry, Andhra Pradesh - 533 105, during July 6-7, 2012 and presented a paper entitled "Natural convection in a lid-driven square cavity filled with porous medium".
4. Attended the National Seminar on "Advances in Mathematics & Applications" held in the Department of Mathematics, The University of Burdwan, Burdwan, during March 6-7, 2013.
5. Participated and presented a paper titled "Numerical study of magnetohydrodynamic laminar flow separation in a channel with smooth expansion" in the International Conference, organized by the Department of Mathematics, Vidyasagar University, Paschim Medinipur, during 20-21 March, 2013.

Anjan Kumar Bhuniya

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

Subhasis Ray

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Attended the National Seminar on "Advances in Mathematics & Applications" held in the Department of Mathematics, The University of Burdwan, Burdwan, during March 6-7, 2013.
4. Participated and presented a paper titled "Convexity condition for approximate generalized Riemann derivable functions" in the National Seminar on Mathematical Analysis and Application Present Perspective (NSMAAPP-2012)

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held during September 6 - 8, 2012 at Calcutta Mathematical Society, Kolkata.

5. Participated and presented a paper titled "On the Borel derivatives" in the National Seminar on Advanced in Mathematics & Applications (AMA-2013) held during March 6 - 7, 2013 at The University of Burdwan, Burdwan.

Amar Prasad Misra

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Acted as a Committee member in the International Topical Conference on Plasma Science: Advanced Plasma Concepts (Sept. 24-28, 2012; Faro, Portugal).
3. Participated and delivered an Invited talk in the National Workshop on Nonlinear Waves: Theory and Simulation, Department of Mathematics, National Institute of Technology, Durgapur, India (14-18 January, 2013).
4. Participated and Completed the UGC supported Refresher Course in Algebra, Analysis, Discrete Mathematics & Applications held at Academic Staff College, Jadavpur University, Kolkata during 27 August, 2012 to 15 September, 2012.

Kalyan Hansda

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated and Completed the UGC supported 89th orientation programme held at Burdwan University during 06 February, 2013 to 05 March, 2013.

Lakshmi Narayan Guin

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated and Completed the UGC supported 89th orientation programme held at Burdwan University during 06 February, 2013 to 05 March, 2013.
4. Participated in the National Seminar on Advances in Mathematics and Applications (AMA-2013) held during 6-7 March, 2013 at the Department of Mathematics, The University of Burdwan, Burdwan-713104, West Bengal, India, and presented a paper entitled "Spatial pattern in a diffusive predator-prey model with sigmoid ratio-dependent functional response".

Nikhil Pal

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.
3. Participated in the Instructional School for Lecturers in Differential Equations and computations during June 04, 2012 to June 16, 2012.

Mizanur Rahaman

1. Participated and acted as a committee member in the National Seminar on Mathematics for nonlinear systems held during March 17-18, 2013, at the Department of Mathematics, Siksha Bhavana, Visva-Bharati, Santiniketan, India.
2. Participated and acted as a committee member in the two-day National Seminar on "Mathematics and its Applications" held on the occasion of Golden Jubilee Celebration during 30-31 March, 2013.

Ongoing Research Project:

Nil

Extension activities / NSS / Cultural and other activities organized by the Department and participated by the Teachers and students of the Department:

- Teacher's day was celebrated on 5th September, 2012 in the Department of Mathematics organized by the students of the Department of Mathematics.
- The Department organized its annual study tour for the year 2012-2013 to Shimla, Kullu-Manali and adjacent areas during 29 December, 2012 to 05 January, 2013. Sixty four students escorted by teacher-in-charge Dr. Tapas Ray Mahapatra, Dr. Amar Prasad Misra, Mr. Kalyan Hansda and Mr. Lakshmi Narayan Guin, Lady escort Mrs. Gopa Banerjee, and office assistant Sri Prasanta Roy and Sri Tapas Kumar Ghosh participated in the 8-day programme. They had plenty of opportunities to know a distant part of the country that is rich in culture with natural and scenic beauty.

Academic distinctions gained by Teachers/Scholars or the Department as a whole**(Like recognition as DSA. or CAS etc):**

The Department is pursuing the Special Assistance Programme (SAP - DRS Phase II) under University Grants Commission during 2012-2013 entitled "Nonlinear systems with thrust on Fluid Mechanics supported by Quantum Mechanics and Fuzzy Mathematics". Also, the department have been receiving a financial assistance from DST, Govt. of India under its FIST Programme since 2004.

Prof. S. K. Samanta is a member of the editorial board of

1. The Journal of Nonlinear Science and Applications
2. J P Journal of Fixed Point Theory and applications and Reviewer of the following international journals:
 1. Fuzzy Sets and Systems (Elsevier)
 2. Computers & Mathematics with Applications (Elsevier)
 3. Information Sciences (Elsevier)
 4. International Journal of computer Mathematics

Prof. Puspajit Mandal acted as a Reviewer of the following Journals during April 2012 to March 2013.

- Indian J Physics, IACS, Kolkata
- Euro. Phys. J. D, EDP Sciences

Prof. Dulal Pal acted as a Reviewer of the following reputed Journal during April 2012 to March 2013.

- Special topics and Reviews in porous media (Begell House)
- Chemical Engineering Communications (Taylor & Francis)
- Communications in Nonlinear Science and Numerical Simulations (Elsevier)
- Energy-The International Journal (Elsevier)
- International Journal of Heat and Mass Transfer (Elsevier)
- Meccanica (Springer)
- International Journal of Thermal Science (Elsevier)
- Journal of Porous Media (Begell House)

Prof. S. Chakravarty acted as a reviewer of the following international journals during April 2012 to March 2013.

- International Journal of Biomathematics (World Scientific Publishing Company)
- Chemical Engineering Communications (Taylor & Francis Group)
- Journal of Mechanics in Medicine and Biology (World Scientific Publishing Company)
- Applications in Applied Mathematics (A & M University, Texas, USA)

Prof. Swapan Raha acted as a reviewer of the following international journals during April 2012 to March 2013.

- IEEE Transactions on Fuzzy Systems

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Dr. Prasanta Chatterjee acted as a reviewer of the following journals

- Indian J Physics
- Pramana-Journal of Physics
- Europhysics Letters
- Earth Moon and Planets
- Astrophysics & Space science
- Advances in Space Research

Dr. Prashanta Kumar Mandal acted as member of the following :

- Member, editorial board, ISRN Journal of Biomedical Engineering (Hindawi publication)
- Member, American Mathematical Society
- Member, ISTAM

and acted as a reviewer of the following journals

- Meccanica (Press: Springer)
- Chemical Engineering Communications (Press: Taylor & Francis)
- Computer Methods in Biomechanics and Biomedical Engineering (Press: Taylor & Francis)
- International Journal for Numerical Methods in Fluids (Press: John Wiley & Sons Ltd.)
- International Journal for Numerical Methods in Biomedical Engineering (Press: John Wiley & Sons Ltd.)
- Mathematical Reviews (Press: American Mathematical Society)

Dr. Dibyendu Banerjee acted as a reviewer of the following journal

- The Journal of Nonlinear Sciences and Applications (TJNSA) University of Pittsburgh at Bradford, Bradford.

Dr. Tarapada Bag acted as a reviewer of the following journals

- Iranian Journal of Fuzzy systems (University of Sistan and Baluchestan, Iran)
- Fuzzy Information and Engineering (Springer-Verlag)
- Mathematical Review (American Mathematical Society)

Dr. Anjan Kumar Bhuniya acted as a reviewer of the following journals:

- Semigroup Forum
- Soft Computing
- Filomat
- Southeast Asian Bulletin of Mathematics

Dr. Amar Prasad Misra acted as a reviewer of the following journals and becomes a life member of Plasma Science Society of India (PSSI)

- Physics of Plasmas (American Institute of Physics)
- Physics Letters A (Elsevier Science)
- Astrophysics and Space Science (Springer)
- Journal of Plasma Physics (Oxford University Press)
- Optics & Laser Technology (Elsevier Science)
- Euro Physics Letters (EPS & IOP)
- European Physical Journal B, D & E, France
- Indian Journal of Physics (Springer)
- Advances in Space Research (Elsevier Science)
- IEEE Transactions on Plasma Science
- Waves in Random and Complex Media (Taylor & Francis)
- Optics Communications (Elsevier Sciences)
- Indian Journal of Pure & Applied Physics (CSIR-NISCAIR)

- Physical Review & Research International (SCIENCEDOMAIN International)
- PRAMANA-Journal of Physics (Springer)

Publications within the year April, 2012 - March, 2013

- i) Text Books: Nil
- ii) Monograph: Nil
- iii) Research Papers (Author(s), Title of the Paper, Year, Journal, Volume No., Pages): See below

Syamal Kumar Samanta*

1. Sujoy Das and S. K. Samanta, Soft Real Sets, Soft Real Numbers and Their Properties, The Journal of Fuzzy Mathematics, Vol. 20. No.3, 2012, 551-576, ISSN: 1066-8950.
2. D. Haldar, T. Bag and S. K. Samanta, Strictly Convex Fuzzy Normed (Felbin's Type) Linear Spaces, The Journal of Fuzzy Mathematics, Vol. 20. No.3, 2012, 577-588, ISSN: 1066-8950.
3. Sk Nazmul, H. Hazra and S. K. Samanta, Fuzzy Topological Groups, The Journal of Fuzzy Mathematics, Vol. 21, No.1, 2013, 9-28, ISSN: 1066-8950.
4. Sujoy Das and S. K. Samanta, On soft complex sets and Soft Complex Numbers, The Journal of Fuzzy Mathematics, Vol. 21, No.1, 2013, 195-216, ISSN: 1066-8950.
5. G. Rano, T. Bag and S. K. Samanta, Bounded Linear Operators in Generating Spaces of Quasi-norm Family, The Journal of Fuzzy Mathematics, Vol. 21, No.1, 2013, 51-58, ISSN: 1066-8950.

***Publications 2 & 5 are jointly with Dr. Tarapada Bag.**

Puspajit Mandal

1. Positronium formation in positron-helium collisions with screened Coulomb Interaction - Subhrangsu Sen, Puspajit Mandal and Prasanta Kumar Mukherjee, EPJ D 66, 230 (2012).
2. Hyperpolarizabilities of one and two electron atoms under strongly coupled plasma - Subhrangsu Sen, Puspajit Mandal, Prasanta Kumar Mukherjee and Burkhard Fricke, Phys. Plasmas 20, 013505 (2013).

Dulal Pal*

1. Dulal Pal and Hiranmoy Mondal, Hydromagnetic convective diffusion of species in Darcy-Forchheimer porous medium with non-uniform heat source/sink and variable viscosity, INT. COMM. HEAT MASS TRANSFER, vol. 39, pp. 913-917, 2012. (ISSN: 0735-1933) (Elsevier Journal).
2. Dulal Pal and Sewli Chatterjee, MHD non-Darcian mixed convection stagnation-point flow of a micropolar fluid towards a stretching sheet with radiation, CHEMICAL ENGINEERING COMMUNICATIONS, vol. 199(6), pp. 1169-1193, 2012. (Taylor and Francis Journal) (ISSN: 0098-6445).
3. Dulal Pal and Hiranmoy Mondal, Influence of chemical reaction and thermal radiation on mixed convection heat and mass transfer over a stretching sheet in Darcian porous medium with Soret and Dufour effects, ENERGY CONVERSION & MANAGEMENT, vol. 62, pp. 102-108, 2012. (ISSN : 0196-8904) (Elsevier Journal).
4. Dulal Pal and Babulal Talukdar, Perturbation technique for unsteady MHD mixed convection periodic flow, heat and mass transfer in micropolar fluid with chemical reaction in the presence of thermal radiation, CENTRAL EUROPEAN JOURNAL OF PHYSICS, 10(5) (2012) 1150-1167. (Springer Verlag Journal). (ISSN: 1895-1082).
5. Dulal Pal and Hiranmoy Mondal, Hydromagnetic convective diffusion of species in Darcy-Forchheimer porous medium with non-uniform heat source/sink and variable viscosity, INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, 39(7) (2012) 913-917, (Elsevier Journal) (ISSN: 0735-1933).
6. Dulal Pal, Sewli Chatterjee, MHD mixed convection stagnation-point flow of a micropolar fluid in a porous medium towards a heated stretching sheet with thermal radiation, MATHEMATICAL MODELLING & ANALYSIS, vol. 17 (4), pp. 498-518, 2012. (Taylor and Francis Journal), (ISSN: 1749-3889).
7. Dulal Pal and Babulal Talukdar, Influence of Soret effect on MHD mixed convection oscillatory flow over a vertical surface in a porous medium with chemical reaction and thermal radiation, INTERNATIONAL JOURNAL OF

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- NONLINEAR SCIENCE14 (1) (2012) 65-78 (World Academic Press, World Academic Union, England, UK), (ISSN: 1749-3889).
8. Dulal Pal and Hironmoy Mondal, Non-Darcian buoyancy driven heat and mass transfer over a stretching sheet in a porous medium with radiation and Ohmic heating, *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCE*, vol. 14 (1), pp. 115-123, 2012.(World Academic Press, World Academic Union, England, UK), (ISSN: 1749-3889).
 9. Dulal Pal and Hironmoy Mondal, Influence of Soret and Dufour on MHD buoyancy-driven heat and mass transfer over a stretching sheet in porous media with temperature-dependent viscosity, *NUCLEAR ENGINEERING AND DESIGN*, 256 (2013) 350- 357 (Elsevier Journal). (ISSN: 0029-5493) .
 10. Dulal Pal and Hiranmoy Mondal, Influence of thermophoresis and Soret-Dufour on magnetohydrodynamic heat and mass transfer over a non-isothermal wedge with thermal radiation and Ohmic dissipation, *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, vol. 331, pp. 250-255, 2013. (ISSN: 0304-8853) (Elsevier Journal).
 11. Dulal Pal and Sewli Chatterjee, Soret and Dufour effects on MHD convective heat and mass transfer of a Power-law fluid over an inclined plate with variable thermal conductivity in a porous medium, *APPLIED MATHEMATICS AND COMPUTATIONS*, 2012 (Elsevier Journal). Doi: 10.1016/j.amc.2012.10.119 (ISSN: 0096-3003).
 12. Dulal Pal and Sewli Chatterjee, MHD mixed convective heat and mass transfer in a viscoelastic fluid in a porous medium towards a stretching sheet with viscous-Ohmic heating and chemical reaction, *CANADIAN JOURNAL OF CHEMICAL ENGINEERING*, 2012 (Accepted on 22 Nov. 2012) (Wiley Journal). (ISSN: 1939-019X).
 13. Tapas Ray Mahapatra, Dulal Pal, Sabyasachi Mondal, "Combined effects of thermal radiation and heat generation on natural convection in a square cavity filled with Darcy-Forchheimer porous medium", *International Journal of Applied Mathematics and Computation*, Vol. 4, No. 4 (2012) pp. 359-368.
 14. Tapas Ray Mahapatra, Sabyasachi Mondal, Dulal Pal, "Heat transfer due to magnetohydrodynamic stagnation-point flow of a power-law fluid towards a stretching surface in presence of thermal radiation and suction/injection", *ISRN Thermodynamics*, Article ID 465864, (2012) pp. 1-9 doi:10.5402/2012/465864 (Hindwai Publishing).
 15. Tapas Ray Mahapatra, Dulal Pal, Sabyasachi Mondal, "Effects of buoyancy ratio on double-diffusive natural convection in a lid-driven cavity", *International Journal of Heat and Mass Transfer*, Vol. 57 (2013) pp. 771-785.
 16. Tapas Ray Mahapatra, Dulal Pal, Sabyasachi Mondal, "Mixed convection flow in an inclined enclosure under magnetic field with thermal radiation and heat generation", *International Communication in Heat and Mass Transfer*, Vol. 41 (2013) pp.47-56 (Elsevier Journal).
 17. Tapas Ray Mahapatra, Dulal Pal and Sabyasachi Mondal, "Influence of thermal radiation on non-Darcian natural convection in a square cavity filled with fluid saturated porous medium of uniform porosity", *Nonlinear Analysis: Modelling and Control*, Vol. 17, No. 2 (2012), pp. 223-237.
 18. Tapas Ray Mahapatra, Sabyasachi Mondal and Dulal Pal, "Heat Generation Effects in an Inclined Enclosure under the Influence of Magnetic Field", *ARNP Journal of Science and Technology*, Vol. 2 No. 6 (2012), pp. 556-561.
 19. Sabyasachi Mondal, Tapas Ray Mahapatra, Dulal Pal, "Natural convection in a two-sided lid-driven inclined porous enclosure with sinusoidal thermal boundary condition", *International Journal of Mechanical Engineering and Technology*, Vol. 3, No. 3 (2012) pp. 187-202.

*Publications 13 to 19 are jointly with Dr. Tapas Ray Mahapatra.

Santabrata Chakravarty*

1. Sarifuddin , S. Chakravarty, P. K. Mandal, Heat Transfer to micropolar fluid flowing through an irregular arterial constriction, *International Journal of Heat and Mass Transfer*, Vol. 56, 538 - 551 (2013).
2. S. Sen and S. Chakravarty, A Theoretical Study on the Constricted Flow Phenomena in Arteries, *Korea- Australia Rheology Journal*, Vol. 24, 287 - 295 (2012).
3. Md. S. Rahman and S. Chakravarty, A predator-prey model with disease in prey, *Nonlinear Analysis: Modeling and Control* Vol. 18, No. 2, 191-209 (2013).
4. Md. S. Rahman and S. Chakravarty, Persistence and global stability analysis of an eco-epidemiological model of the Salton Sea, *International Journal of Ecological Economics and Statistics*, Vol. 30, No. 3, 83-101 (2013).

*Publication 1 is jointly with Dr. P. K. Mandal.

Swapan Raha

1. Banibrata Mondal, Swapan Raha --- Approximate reasoning in fuzzy resolution, International Journal of Intelligence Science, pp. 1-12, vol. 3, no. 2, 2013.

P. Chatterjee

1. Head-on collision of dust acoustic solitary waves in dusty plasmas with nonthermal ions, U. N. Ghosh and P. Chatterjee, Indian J. Phys., 86 (5), 407-411 (2012). ISSN: 0973-1458.
2. Dust acoustic solitary waves in a dusty plasma with variable dust charge and an arbitrary streaming ion beam, P. Chatterjee, B. Das and C. S. Wong, Indian J. Phys., 86(6), 529-533 (2012). ISSN: 0973-1458.
3. Dust acoustic solitary waves with superthermal electrons in cylindrical and spherical geometry, D. K. Ghosh, P. Chatterjee and B. Das, Indian J. Phys., 86(9), 829 (2012). ISSN: 0973-1458.
4. Large amplitude double layers in a dusty plasma with a q-nonextensive electron velocity distribution and two temperature isothermal ions, K. Roy, T. Saha, P. Chatterjee and M. Tribeche, Phys. Plasmas, 19, 042113 (2012). ISSN: 1070-664X.
5. Dust acoustic dressed solitons in a four component dusty plasma with nonthermal electron, K. Roy, P. Chatterjee and S. Kundu, Advan. Advances Space Res, 50, 1288 (2012).ISSN 004-640X
6. Arbitrary amplitude double layers in a four component dusty plasma with kappa distributed electron, K. Roy, T. Saha and P. Chatterjee, Astrophys. Space Sci.,342, 125 (2012). ISSN 004-640X.
7. Nonplanar ion acoustic solitary waves with superthermal electrons and positrons, D. K. Ghosh, P. Chatterjee and B. Sahu, Astrophys. Space Sci., 341, 559 (2012). ISSN 004-640X.
8. Superthermal effect of electron on dust-ion acoustic solitary waves and double layers in a dusty plasma., U.N. Ghosh, D.K. Ghosh, P. Chatterjee and B. Sahu, Astrophys. Space Sci. 342, 449 (2012) ISSN 004-640X.
9. Interaction of dust-ion acoustic solitary waves electrons featuring Tsallis distribution, U. N. Ghosh, P. Chatterjee and M. Tribeche, Phys. Plasmas, 19, 112302 (2012). ISSN: 1070-664X.
10. Effect of ion temperature on ion-acoustic solitary waves in a plasma with a q-nonextensive electron velocity distribution, K. Roy, T. Saha, P. Chatterjee, Phys. Plasmas, 19, 104502 (2012). ISSN: 1070-664X.
11. Dynamical behaviour of charge fluctuation in dusty plasma with nonthermal electron distribution: van der Pol-matheu model equation, S K Kundu, S Poria, P. Chatterjee and U N Ghosh, Bull Cal Math Soc, 104(4) 331(2012). ISSN: 0008-0659
12. Dust acoustic dressed soliton in a four component dusty plasma with superthermal electron, P Chatterjee, G Mondal, G Mondal and C S Wong, JOSTT 8, 29(2012).
13. Non-planar ion acoustic Gardner solitons in electron-positron-ion plasma with superthermal electrons and positrons, D. K. Ghosh, U. N. Ghosh and P. Chatterjee, J. Plasma Phys.,79, 37(2013) . ISSN: 0022-3788
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15. Nonplanar ion-acoustic Gardner solitons in a pair-ion plasma with nonextensive electrons and positrons U.N. Ghosh, D.K. Ghosh, P. Chatterjee, B. Mostafa and M. Tribeche, Astrophys. Space Sci. 343, 265(2013). ISSN: 004-640X.
16. Head on collision of dust ion acoustic solitary waves in magnetized quantum dusty plasmas by Malay Kumar Ghorui, Prasanta Chatterjee, C. S. Wong, Astrophys and space science. 343, 639 (2013).ISSN 004-640X
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20. Effect of superthermal electrons on dust acoustic Gardner soliton in nonplanar geometry, D. Ghosh, U N Ghosh, P Chatterjee and C S Wong, Pramana. 2013 (In press). ISSN 0304-4289.

Prashanta Kumar Mandal*

1. S. Sarwardi, P. K. Mandal, S. Ray "Effect of refuge on competitive prey-predator system", Biosystems, vol.-110, 133-148 (2012).
2. Sarifuddin, S. Chakravarty, P. K. Mandal, Heat Transfer to micropolar fluid flowing through an irregular arterial constriction, International Journal of Heat and Mass Transfer, Vol. 56, 538 - 551 (2013).

*Publication 2 is jointly with Prof. Santabrata Chakravarty.

Madan Mohan Panja

1. M M Panja and B N Mandal, Solution of second kind integral equation with Cauchy type kernel using Daubechies scale function, Journal of Computational and Applied Mathematics 241, 130-142 (2013) (Elsevier).

Tapas Ray Mahapatra*

1. Tapas Ray Mahapatra, Dulal Pal, Sabyasachi Mondal, "Combined effects of thermal radiation and heat generation on natural convection in a square cavity filled with Darcy-Forchheimer porous medium", International Journal of Applied Mathematics and Computation, Vol. 4, No. 4 (2012) pp. 359-368.
2. Tapas Ray Mahapatra, Sabyasachi Mondal, Dulal Pal, "Heat transfer due to magnetohydrodynamic stagnation-point flow of a power-law fluid towards a stretching surface in presence of thermal radiation and suction/injection", ISRN Thermodynamics, Article ID 465864, (2012) pp. 1-9 doi:10.5402/2012/465864.
3. Tapas Ray Mahapatra, Dulal Pal and Sabyasachi Mondal, "Influence of thermal radiation on non-Darcian natural convection in a square cavity filled with fluid saturated porous medium of uniform porosity", Nonlinear Analysis: Modelling and Control, Vol. 17, No. 2 (2012), pp. 223-237.
4. Tapas Ray Mahapatra, Sabyasachi Mondal and Dulal Pal, "Heat Generation Effects in an Inclined Enclosure under the Influence of Magnetic Field", ARPN Journal of Science and Technology, Vol. 2 No. 6 (2012), pp. 556-561.
5. Sabyasachi Mondal, Tapas Ray Mahapatra, Dulal Pal, "Natural convection in a two-sided lid-driven inclined porous enclosure with sinusoidal thermal boundary condition", International Journal of Mechanical Engineering and Technology, Vol. 3, No. 3 (2012) pp. 187-202.
6. Tapas Ray Mahapatra, Dulal Pal, Sabyasachi Mondal, "Effects of buoyancy ratio on double-diffusive natural convection in a lid-driven cavity", International Journal of Heat and Mass Transfer, Vol. 57 (2013) pp. 771-785.
7. Tapas Ray Mahapatra, Dulal Pal, Sabyasachi Mondal, "Mixed convection flow in an inclined enclosure under magnetic field with thermal radiation and heat generation", International Communication in Heat and Mass Transfer, Vol. 41 (2013) pp.47-56.
8. Tapas Ray Mahapatra and S.K. Nandy, 'Slip effects on unsteady stagnation-point flow and heat transfer over a shrinking sheet', Meccanica, doi: 10.1007/s11012-012-9688-1, 2013.
9. Tapas Ray Mahapatra, S.K. Nandy and A.S. Gupta, 'Effect of radial temperature gradient on the stability of Taylor Dean flow between two concentric rotating cylinders', International Journal of Heat and Mass Transfer, 57(2013) pp.662-670.
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*Publications 1 to 7 are jointly with Prof. Dulal Pal.

Dibyendu Banerjee

1. "Maximum modulus and maximum term of generalized iterated entire functions" Dibyendu Banerjee and Nilkanta Mondal, Bulletin of Allahabad Mathematical Society, Vol. 27, Part 1, (2012), 117-131.
2. On order of Banach valued analytic functions, Dibyendu Banerjee and Nilkanta Mondal, Journal of Informatics and Mathematical Sciences, Vol. 4, No. 3, (2013), 305-309.

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Tarapada Bag*

1. D. Haldar, T. Bag and S. K. Samanta, Strictly Convex Fuzzy Normed (Felbin's Type) Linear Spaces, The Journal of Fuzzy Mathematics, Vol. 20. No.3, 2012, 577-588, ISSN: 1066-8950.
2. S. Mukherjee & T. Bag, Some properties of fuzzy Hilbert spaces and fixed point theorems in such spaces, The Journal of Fuzzy Mathematics, 20 (3) (2012) 539-550.
3. T. Bag, Some results on D^* -fuzzy metric spaces, International Journal of Mathematics and Scientific Computing, 2 (1) (2012) 29-33.
4. G. Rano, T. Bag and S. K. Samanta, Bounded Linear Operators in Generating Spaces of Quasi-norm Family, The Journal of Fuzzy Mathematics, Vol. 21, No.1, 2013, 51-58, ISSN: 1066-8950.
5. G. Rana and T. Bag, Fuzzy Normed Linear Spaces. International Journal of Mathematics and Scientific Computing, Vol. 2, No. 2 (2012) 1-4.

*Publications 1 & 4 are jointly with Prof. S. K. Samanta.

Anjan Kumar Bhuniya

1. "Semirings which are distributive lattices of k -simple semirings" A. K. Bhuniya and T. K. Mondal, Southeast Asian Bulletin of Mathematics 36 (2012) 309-318.
2. On K -radicals of Green's relations in semirings with semilattice additive reduct, T. K. Mondal and A. K. Bhuniya, Discusiones Mathematicae-General Algebra and applications, 33 (2013) 85-93.

Subhasis Ray

1. S. Ray and T. K. Garai, "On Laplace Continuity" Real analysis Exchange, Vol-37(2), 2012, pp.279-29. ISSN: 0147-1937.
2. S. Ray and A. Garai, "On Laplace Derivative" The Mathematics Student, Vol-81, Nos 1-4 (2012). ISSN: 0025-5742.
3. S. Ray and A. Garai, "On Laplace Derivative II" The Mathematics Student, Vol-81, Nos 1-4 (2012) ISSN: 0025-5742.
4. S. Ray and S. Ghosh, "Some Mean value Theorems For the Laplace Derivative" International Journal of Mathematics and Analysis, Vol. 4, No. 1, 2012, pp. 65-70. ISSN: 0973-3604.

Amar Prasad Misra

1. Ion-acoustic solitary waves and shocks in a collisional dusty negative-ion plasma, A. P. Misra, N. C. Adhikary and P. K. Shukla, Phys. Rev. E 86, 056406 (2012) [10 pages].
2. Characteristics of ion-acoustic solitary wave in a laboratory dusty plasma under the influence of ion-beam, M. K. Deka, N. C. Adhikary, A. P. Misra, H. Bailung and Y. Nakamura, Phys. Plasmas, 19, 103704 (2012) [9 pages].
3. Amplitude modulated drift wave packets in a nonuniform magnetoplasma, P. K. Shukla and A. P. Misra, Phys. Lett. A 376, 2591-2594 (2012).
4. Rossby vortices in atmosphere and in the solar photosphere, A. P. Misra and P. K. Shukla, Europhys. Lett., 100, 55001 (2012) [6 pages].

Kalyan Hansda

1. Bi-ideals in Clifford ordered semigroups. K. Hansda, Discussion in Mathematica, in press (2013).

Prasanta K. Mukherjee*

1. Spectral Shifts and Line Profiles of Alkaline Earth Atoms in Liquid Helium Environment: a Monte Carlo Simulation and Time Dependent Density Functional Calculation, Lucas Modesto-Costa, Kaline Couthinho, P. K. Mukherjee and Sylvio Canuto, Chem. Phys. Lett. 533, 25 (2012).
2. Three body negative ions under Coulomb interaction, S. Bhattacharyya, J. K. Saha, P. K. Mukherjee and T. K. Mukherjee, Phys. Scr. 85, 065305 (2012).

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***DST Project Scientist.**

Designing New Course / Curriculum or any other teaching innovations introduced by the Department:

The Department of Mathematics is in an advanced stage of modifying and upgrading its current syllabi for three-year BA/B Sc (Honours) and two-year MA/M Sc courses. The BA/B Sc (Honours) syllabus was last modified and upgraded in 2009. The semester system was introduced in the two-year MA/M Sc course in 2009 and the syllabus was upgraded accordingly.

The department is now seized with the introduction of Choice Based Credit System (CBCS) both at the undergraduate and postgraduate levels. The curriculum was designed by the Board of Studies (BOS) in Mathematics. This CBCS system has been introduced with effect from the academic session 2011-2012.

The three-year 88-credit BA/B Sc (Honours) course consists of six semesters with the students having been offered choices of elective papers at the Semester V and Semester VI.

The two-year 96-credit MA/M Sc course (@24 x 4 = 96) consists of four semesters with the students having been offered two elective papers in pure mathematics as well as in applied mathematics out of several choices from both of these branches of mathematics. The student shall have to undertake a compulsory project work in his/her field of specialization.

A brief history on the development of the Bhavana / Sadana / Vibhaga concerned with an indication of the future plans for development:

The Department of Mathematics is the oldest department under Siksha-Bhavana (Institute of Science). It was established in 1961 with the introduction of BA/B Sc (Honours) in Mathematics. Subsequently in 1963, two-year MA/M Sc course in Mathematics was started in the department along with the regular Ph. D. programme. The department has started celebrating its Golden Jubilee Year during 2012-2013. On this occasion, the department has organized a two-day National Seminar on "Mathematics and its Applications" at the Department of Mathematics, Visva-Bharati, during 30-31 March, 2013. The programme was successful with active participation of many distinguished professors, dignitaries, researchers, ex-students, present students and the staff-members of the department.

At the moment, the members of faculty are engaged in the following areas of research:

- (a) Real Analysis, (b) Complex Analysis, (c) Functional Analysis, (d) Fuzzy Topology, (e) Fuzzy Functional Analysis, (f) Abstract Algebra, (g) Fluid Mechanics, (h) Computational Fluid Dynamics, (i) Atmospheric Sciences, (j) Biomechanics, (k) Plasma Physics, Nonlinear Dynamics (l) Symmetry and Painleve Analysis of differential equations, (m) Artificial Intelligence, (n) Quantum Scattering Theory, (p) Wavelet based Numerical Analysis.

In recognition of the contributions of the faculty members in their fields of research as evidenced in the number and excellent quality of publications in national and international journals of repute, the University Grants Commission has brought the Department of Mathematics under its Special Assistance Programme (SAP) - DRS (Phase - II). The department proposes to establish a "Centre for Nonlinear Studies" in the development budget during the next Five-Year Plan.

Any other relevant information

- A. During the last academic year 2012-2013, the Department of Mathematics admitted 15 students for Ph D. course work, the details of which are given below.

There are FOUR students in Batch - III and SIX students in Batch - IV

Result of Batch - III: A total of four (4) candidates cleared all the papers and successfully completed the course. Prakash Kumar Das secured 73.67% marks in total.

Students of Batch - IV : Arnab Barman, Benukar Mondal, Mitropam Chakrovarty, Joyanto Pal, Sumanta Sidhui, Supriyo Mandal.

Some other details:

- Sk. Nazmul is working under the supervision of Prof. Syamal Kumar Samanta; Gobordhan Rano is working under the joint supervision of Prof. Syamal Kumar Samanta and Tarapada Bag.
- Gopinath Mondal is working under the supervision of Prof. Dulal Pal; Sabyasachi Mondal is working under the joint supervision of Prof. Dulal Pal and Dr. Tapas Ray Mahapatra.
- Md. Sabiar Rahman, Nizamuddin Ali are working under the supervision of Prof. Santabrata Chakravarty.
- Himadri Sekhar Gupta, Asim Pal, Namrata Bhattacharyya and Sudin Mandal are working under the supervision of Prof. Swapan Raha.
- Akshay Kumar Mandal, Deb Kumar Ghosh, Sanjib Kumar Kundu, and Malay Kumar Ghorui are working under the supervision of Dr. Prasanta Chatterjee.
- Utpal Samanta, Gansheh Kumar Mandal and Pankaj Mandal (Jointly with Dr. P. K. Mandal) have presented pre-Ph. D seminars.
- Lakshmi Narayan Guin, Pallav Jyoti Pal, Akash Pradip Mandal and Ramprosad Saha are working under the supervision of Dr. Prashanta Kumar Mandal.
- Anwesha Bhuniya (Pandey), Arunima Majumdar, Dipsekhar Halder and Sougat Mukherjee are working under the supervision of Dr. Tarapada Bag.
- Samir Kumar Nandy is working under the supervision of Dr. Tapas Ray Mahapatra.
- Kalyan Hansda, Kanchan Jana, Rajib Debnath and Tapas Kumar Mandal are working under the supervision of Dr. Anjan Kumar Bhuniya.
- Anupam Garai and Subhankar Ghosh are working under the supervision of Dr. Subhasis Ray.

B. Following students have been admitted to the Ph. D. degree of Visva-Bharati, during the period April 2012 to March 2013:

1. Mr. Banibrata Mondal, Title of the thesis: Similarity based inverse approximate reasoning. Supervisor: Prof. Swapan Raha
2. Mr. Hiranmoy Mondal. Title of the thesis: Some aspects of Heat and mass transfer in viscous fluid over a moving surface in porous media. Supervisor: Prof. Dulal Pal.
3. Mrs. Sweli Chatterjee. Title of the thesis: Heat and Mass Transfer Characteristics in Non-Newtonian Fluids over a Stretching Sheet in a Porous Medium media. Supervisor: Prof. Dulal Pal.
4. Mrs. Anindita Tarai. Title of the thesis: Chaos Control, Chaos Synchronization and Its Application. Supervisor: Dr. Prasanta Chatterjee.
5. Mr. Taraknath Saha. Title of the Thesis: Some problems on nonlinear structures in magnetized plasmas. Supervisor: Dr. Prasanta Chatterjee.
6. Mr. Chandan Bhowmik. Title of the thesis: Studies on waves and instabilities in quantum plasmas. Supervisor: Dr. Amar Prasad Misra.
7. Mr. Nabakumar Ghosh. Title of the thesis: Some investigations on solitary and surface waves in quantum plasmas. Supervisor: Dr. Amar Prasad Misra.

C. Following students have submitted their Ph. D. theses during the period April 2012 --- March 2013:

1. Mr. Sahabuddin Sawardi, thesis titled "Mathematical modelling of some ecological and ecoepidemiological systems" under the supervision of Dr. Prashanta Kumar Mandal.
2. Mr. Pinaki Mazumdar, thesis titled "A study of several types of sets expressing uncertainty and some mathematical structures on them" under supervision of Prof. Syamal Kumar Samanta.
3. Mr. Sukanta Samanta, thesis titled "Nonlinear excitations in classical and quantum plasmas" (submitted to Jadavpur University, Kolkata-700 032, India) under joint supervision of Dr. Amar Prasad Misra and Prof. A. Roy Chowdhury of Jadavpur University, Kolkata-32.

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4. Mrs. Salini Bagchi, thesis titled "On some nonlinear processes in dusty plasmas" (submitted to Jadavpur University, Kolkata-700 032, India) under joint supervision of Dr. Amar Prasad Misra and Prof. A. Roy Chowdhury of Jadavpur University, Kolkata-32.
5. Mr. Babulal Talukdar, thesis titled "On Some Aspects of Magnetohydrodynamic Heat and Mass Transfer problems" under the supervision of Prof. Dulal Pal.
6. Mr. Samir Kumar Nandy, thesis titled "Studies on several momentum, heat transfer and stability problems in magnetohydrodynamic flows of Newtonian and non-Newtonian fluids" under the supervision of Dr. Tapas Roy Mahapatra.
7. Mr. Sabyasachi Mandal, thesis titled "Studies on some heat and mass transfer problems in cavity flows" under the joint supervision of Prof. Dulal Pal and Dr. Tapas Ray Mahapatra.
8. Mr. Uday Narayan Ghosh, thesis titled "Head-on collision of solitary waves in plasmas" under the supervision of Dr. Prasanta Chatterjee.

Particulars in details of the Departmental Library

- a) Area in (Sq. meters) quoted for the Library: 69.68 Sq. meters
- b) Is there separate provision for Reading Room? : No.
- c) Total No. of Books: $1924 + 160 + 98 + (107 + 25) = 2314$ Nos.
- d) Total number of books purchased during the year 2012-2013: 132
 - (i) Total no. of Books purchased from NBHM Library Grant--107
 - (ii) Total no. of Books purchased from SAP-DRS Library Grant--25
- e) Total number of Periodicals: Nil
- f) Total number of Periodicals purchased during the year: Nil
- g) Total Number of Readers: All teachers and research scholars of the department.
- h) Total No. of Books and Periodicals issued: Books are regularly issued to teachers and research scholars.
- i) Total Number of Staff-members (category wise): Nil.

DEPARTMENT OF ZOOLOGY

(i) Name of the Department	:	Zoology
(ii) Number of Teachers	:	14 + 1 (Emeritus Professor) + (NASI Fellow)
(iii) Number of Non-Teaching Staff	:	10
(iv) Number of P.G. students	:	89
(v) Number of U.G. students	:	102
(vi) Number of Ph.D. students	:	24

Name of the students qualified in UGC-CSIR NET/SLET and GATE Examinations:

- (i) UGC-CSIR NET : Nabendu Rakshit (NET-LS)

Departmental Seminars:

- 1) National-level Seminar: Nil
- 2) International-level Seminar: The Department organized "International Symposium on Molecular Signaling (ISMS-2013)" during February 18-21, 2013. "Molecular Signaling" was selected as the focal theme because signaling is central to the life of an organism and defects in the various signaling pathways are intricately involved in impairment of life processes. This international meeting was deemed to be highly relevant as to provide a platform for exchange of ideas and knowledge in valuable areas of research, particularly related to the critical diseases. The Symposium was inaugurated by the Hon'ble Vice-Chancellor Professor Sushanta Dattagupta at 2:00 p.m. on February 18, 2013 at Lipika Auditorium, Visva-Bharati. Professor Samir Bhattacharya acted as the Chairman and Professor Santi P. Sinha Babu was the Convener. The Dean, Faculty of Science, Professor Arun Kumar Ray also addressed the gathering. Following the Inaugural Program, Hon'ble Vice-Chancellor delivered a Special Lecture on the topic "Diffusion - Interdisciplinarity at its best." Over the four days, the Symposium had twelve Technical Sessions comprising 43 Symposium Lectures of 20 minutes each and 23 Invited Lectures of 15 minutes each. The Speakers were from different Institutes/Universities located in India as well as abroad. The majority of lectures dealt with different aspects of molecular signaling involved in the pathogenesis of various diseases viz. cancer, diabetes, cardiac hypertrophy, tuberculosis, arsenic toxicity, gastric ulcer, liver diseases and others. During the Poster sessions, about 40 students presented their posters which were thoroughly evaluated by jury and awards were given to the best posters. Cultural programmes were held in the evening. All distinguished scientists and researchers were unanimous in their opinion that the Symposium provided an excellent academic platform for understanding and unraveling the complexities of molecular signaling in human health and disease.

National and International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research Scholars in details:

Arun Kumar Ray

- 1) Delivered lecture as Invited Speaker on the topic entitled "Improvement of nutritive value of sesame (*Sesamum indicum*) oilseed meal in formulated diets for rohu, *Labeo rohita* (Hamilton) fingerlings after fermentation with two phytase-producing bacterial strains isolated from fish gut" in the National Workshop on Application of Solid State Fermentation Technology in Aquaculture held in the Central Institute of Freshwater Aquaculture (ICAR), Bhubaneswar on May 29, 2012.
- 2) Delivered lectures as a Resource Person on the topics entitled (1) "Nutritional enrichment of plant ingredients by solid state fermentation with cellulase- and phytase-producing fish gut bacteria" and (2) "Microbiota associated with fish gut: A probiotic approach" in the ICAR sponsored Winter School on "Sustainable Fish Feeds and Nutraceuticals to grow health promoting fish" held in the Central Institute of Freshwater Aquaculture (ICAR), Bhubaneswar on February 4, 2013.

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V.C. Joy

- 1) Presented paper: V.C. Joy, G. Roy, "Problems and prospects of fly ash utilization in laterite agricultural soil" in the Golden Jubilee Seminar on Advances in Agricultural Research Towards Food Security and Environmental Sustenance held at the Institute of Agriculture, Visva-Bharati, Sriniketan during September 1-3, 2012.
- 2) Presented paper: A. Sahana, V.C. Joy, "Comparison of sub-lethal toxicity of coal fly ash in laterite agricultural soil using antioxidant and stress enzyme parameters in *Cyphoderus javanus* Börner (Collembola)" in the Golden Jubilee Seminar on Advances in Agricultural Research Towards Food Security and Environmental Sustenance held at the Institute of Agriculture, Visva-Bharati, Sriniketan during September 1-3, 2012.
- 3) Presented paper: A. Sahana, V.C. Joy, "Oxidative stress responses in *Collembola* (Insecta) for ecotoxicological evaluation of soil pollution", at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.

Saumen Kumar Maitra

- 1) Delivered lecture in Science Academies' Lecture Workshop "Emerging Paradigms in Life Sciences" in Visva-Bharati, Santiniketan during November 19-20, 2012.
- 2) Delivered lecture in DST-Sponsored Winter Camp under its Innovation in Science Pursuit for Inspired Research (INSPIRE) Program in Visva-Bharati, Santiniketan during December 10-14, 2012.
- 3) Acted as a member of the National Advisory Committee, delivered an Invited Lecture and Chaired a Scientific Session in the International Conference 'Global Meet of Biologists', held in IICT Hyderabad during December 26-28, 2012.
- 4) Delivered plenary talk in the International Workshop on Fish Farming in Nepal held in Kathmandu, Nepal during January 25-26, 2013.
- 5) Delivered Presidential Address and Chaired a Scientific Session in 'National Conference on Endocrinology and Reproduction: Innovative in Reproductive Biotechnology' and 31st Annual Meeting of the Society for Reproductive Biology & Comparative Endocrinology" held in Karnataka University, Dharwad during February 11-13, 2013.
- 6) Delivered an Invited Lecture in the Faculty Improvement Program in the Department of Zoology, Ranchi University on March 19, 2013.

Santi P. Sinha Babu

- 1) Delivered lecture at the 5th Asean Congress of Tropical Medicine and Parasitology on "Improved efficacy of anti-Wolbachia antibiotic by albendazole: a new approach for the control of bancroftian filariasis", held at University of Philippines, Manila during May 15-17, 2012.
- 2) Presented paper: Prasanta Saini, Niladri Mukherjee, Suprabhat Mukherjee, Priya Roy, Santi P. Sinha Babu, "Molecular evidence of ursolic acid-induced apoptosis in the filarial worm *Setaria cervi*" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 3) Presented paper: Niladri Mukherjee, Prasanta Saini, Suprabhat Mukherjee, Priya Roy, Santi P. Sinha Babu, "Resveratrol, a possible remedy towards lymphatic filariasis: A molecular and biochemical study" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 4) Presented paper: Suprabhat Mukherjee, Rakesh Kundu, Prasanta Saini, Niladri Mukherjee, Sandip Mukherjee, Samir Bhattacharya, Santi P. Sinha Babu, "Filarial parasite activates macrophage through Toll-like Receptor (TLR4)-mediated signaling pathway" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.

Santanu Ray

- 1) Held in Raiganj Surendranath Mahavidyalaya, Raiganj, Uttar Dinajpur, from August 26-27, 2012.
- 2) Participated in the 4th International Ecosummit- 'Ecological Sustainability - Restoring the planet's ecosystem service' held in Columbus, Ohio, USA, from September 30 to October 05, 2012.

- 3) Acted as Resource Person for Refresher Course, Academic Staff College, Burdwan University, Burdwan, held on November 07, 2012.
- 4) Keynote Speaker at the International Workshop on Ecological Modeling of Low Carbon Cities and International Society of Ecological Modeling-Pacific chapter meeting; delivered lecture on "Estimation of sustainability of an industrialized area using carbon cycle model", during March 19-20, 2013.

Ansuman Chattopadhyay

- 1) Presented Paper: Ritu Srivastava, Archya Sengupta, Sandip Mukherjee, Sarmishtha Chatterjee, Muthammal Sudarshan, Anindita Chakraborty, Shelley Bhattacharya and Ansuman Chattopadhyay. "Effect of arsenic on Keap1-Nrf2 signaling pathway with reference to antioxidant responsive element driven genes related to glutathione metabolism in mouse liver in vivo" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 2) Presented Paper: Sarmishtha Chatterjee, Ansuman Chattopadhyay and Shelley Bhattacharya. "Autophagy in rat hepatocytes is induced by mercury at a low concentration" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 3) Presented Paper: Shuvashree Sarkar, Sandip Mukherjee, Ansuman Chattopadhyay and Shelley Bhattacharya. "Arsenic-induced changes in brain AChE profiles in *Danio rerio*" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 4) Presented Paper : Debdeep Mukhopadhyay and Ansuman Chattopadhyay. "Expression of toxicological biomarker genes related to oxidative stress in fluoride-treated adult zebrafish (female) liver" at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 5) Presented Paper: Ritu Srivastava, Archya Sengupta, Sandip Mukherjee, Muthammal Sudarshan, Anindita Chakraborty, Shelley Bhattacharya and Ansuman Chattopadhyay. "Effect of arsenic on Keap1-p62-Nrf2 signaling pathway with reference to antioxidant responsive element-driven genes related to glutathione metabolism in mouse liver in vivo" at the Thematic Orientation Workshop on Trace Element Analysis and Radiological Sciences, held at Manipur University, Imphal, from March 12-14, 2013.

Dipak Kumar Mandal

- 1) Participated in the Fourth Refresher course in Life Sciences at ASC, Burdwan University during November 3-23, 2012.
- 2) Participated in International level Seminar on the Problems and Prospects in Aquaculture at Vidyasagar University during March 1-3, 2013.

Larisha M. Lyndem

- 1) Research scholars participated in National Workshop on Capacity Building in Disease Control and Sustenance and presented paper "Comparative in vitro study on the anthelmintic efficacy of *Cassia* plant on helminthes of domestic fowl" in Mini Symposium on Parasitic Diseases at University of Allahabad during November 5-7, 2012.

Samar Kumar Saha

- 1) Attended Science Academies' Education Programme Lecture Workshop on "Recent Development in Chemistry" organized by Department of Chemistry, Visva-Bharati, Santiniketan from November 29 to December 01, 2012.
- 2) Attended Workshop on National e-Governance Plan (NeGP) organized by the Computer Centre, Visva-Bharati, Santiniketan on December 03, 2012.
- 3) Participated in Winter School on "Sustainable Fish Feeds and Nutraceuticals to Grow Health Promoting Fish" organized by ICAR at the Central Institute of Freshwater Aquaculture, Bhubaneswar from January 15 to February 07, 2013.
- 4) Presented Paper in an International level Seminar on "Problems and Prospects of Coastal Aquaculture and Application of Biotechnological Tools for Rural Development" organized by Department of Aquaculture Management & Technology, Vidyasagar University, Midnapore during March 1-3, 2013.

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Sudipta Maitra

- 1) Acted as Joint Secretary and delivered an Invited Lecture in the International Symposium on Molecular Signaling, held in Visva-Bharati, Santiniketan during February 18-21, 2013.
- 2) Delivered an Invited Lecture in the International Symposium on Comparative Endocrinology and Stress Physiology (CESP) held in University of Kerala, Thiruvananthapuram during February 16-18, 2012.
- 3) Participated in International Workshop on Applications of Flow Cytometry and Imaging in Cell Biology and Nano-Biotechnology, organized by the Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Kolkata from August 11-18, 2012.

Surjya Kumar Saikia

- 1) Organized an International Symposium on Molecular Signaling in the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.

Rakesh Kundu

- 1) Attended Science Academies' Lecture Workshop on "Emerging Paradigms in Life Sciences" held at the Department of Zoology, Visva-Bharati, Santiniketan during November 19-20, 2012.
- 2) Organized an International Symposium on Molecular Signaling in the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.

Sutapa Mukherjee

- 1) Attended a One Day National Symposium on "Genetic Analyses of Complex Traits", held at the Indian Statistical Institute, Kolkata on September 15, 2012.
- 2) Attended the 5th Annual Meeting of The Cytometry Society, India, and National Symposium on "Cytometry and its Role in Tackling Infectious Diseases", held at the Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Kolkata during October 12-13, 2012.
- 3) Participated in the 13th Indo-US Workshop on Advanced Flow Cytometric Techniques, organized by the Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, Kolkata during October 14-17, 2012.
- 4) Presented paper entitled "Enhanced oxidative stress correlates with TLR4 expression in peripheral blood mononuclear cells of Down syndrome children" at the 81st Annual Meeting of The Society of Biological Chemists (India) and National Symposium on 'Chemistry and Biology: Two Weapons against Diseases' held at Science City Auditorium Complex, Kolkata during November 8-11, 2012.
- 5) Attended the 3rd International Cancer Research Symposium held at Swissotel, Kolkata during December 19-21, 2012.
- 6) Acted as Member of the Organizing Committee of the International Symposium on Molecular Signaling in the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.

Samir Bhattacharya

- 1) Invited to deliver Lecture at the National Centre for Cell Science, Pune on July 27, 2012.
- 2) Invited to deliver Lecture at the Indian Institute of Technology, Roorkee on August 01, 2012.
- 3) Participated in the 3rd Indian National Seminar on Prevention & Management of Diabetes: Prospects & Challenges at R.G. Kar Medical College, Kolkata held from September 14-16, 2012.
- 4) Delivered an Invited Lecture in the Annual Meeting of the Society of Biological Chemists at Science City, Kolkata on November 08, 2012.
- 5) Delivered Keynote Lecture in the Annual Meeting of the Association of Physicians of India (APICON) held at Jorhat, Assam during December 21-22, 2012.
- 6) Delivered lecture in the Annual Meeting of the Indian National Science Academy jointly organized by NCL and IISER, Pune during December 27-29, 2012.
- 7) Delivered Keynote Lecture at "Animal, Veterinary and Fisheries Sciences" section of the 100th Indian Science Congress held in Kolkata on January 06, 2013.

- 8) Organized and delivered a lecture at the International Symposium on Molecular Signaling in the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.

Shelley Bhattacharya

- 1) Delivered Invited Lecture on Environmental Toxicology: Emerging Paradigms at Workshop on “Defining the role of women scientists and teachers in promotion and application of science and technology”, organized by NASI, Allahabad from October, 5-6, 2012.
- 2) Delivered Invited Lecture on Advent of Animal Biotechnology and its Future Prospects at National Seminar organized by Indian Woman Scientist Association NASI, Allahabad on February 06, 2013.
- 3) Delivered Invited Lecture on Generation and culture of adult rat hepatic stem cells: An alternate methodology for toxicological studies at National Seminar organized by Indian Woman Scientist Association NASI, Allahabad on February 06, 2013.
- 4) Delivered Invited Lecture on Expression paradigms of pesticide toxicity in fish: Remembering Rachel Carson, at National Seminar on Echoes of Silent Spring: Human Impact on Environment, organized by the Department of Environmental Studies, Visva-Bharati, Santiniketan on March 09, 2013.
- 5) Delivered Invited lecture (R. P. Chaudhuri Endowment Lecture) on Expression of Xenobiotics Toxicity: Paradigms in Fish. at the Department of Zoology, Guwahati University, Guwahati 781014, Assam on March 20, 2013.
- 6) Presented Paper: Sandip Mukherjee, Soma Barman, Shuvasree Sarkar, Narayan Chandra Mandal, Shelley Bhattacharya, “Anti-bacterial effect of C-reactive protein isolated from *Achatina fulica* (Bowdich)” at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 7) Presented Paper: Sarmishtha Chatterjee, Ansuman Chattopadhyay, Shelley Bhattacharya, “Autophagy in rat hepatocytes is induced by mercury at a low concentration” at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 8) Presented Paper: Shuvashree Sarkar, Sandip Mukherjee, Ansuman Chattopadhyay, Shelley Bhattacharya, “Arsenic induced changes in brain AChE profiles in *Danio rerio*” at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 9) Presented Paper: Ritu Srivastava, Archya Sengupta, Sandip Mukherjee Sarmishtha Chatterjee, Muthammal Sudarshan, Anindita Chakraborty, Shelley Bhattacharya, Ansuman Chattopadhyay, “Effect of arsenic on Keap1-Nrf2 signaling pathway with reference to antioxidant responsive element driven genes related to glutathione metabolism in mouse liver in vivo” at the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan from February 18-21, 2013.
- 10) Presented Paper: Sandip Mukherjee, Shuvasree Sarkar, Sarmishtha Chatterjee and Shelley Bhattacharya, “In vivo lead hepatotoxicity in mice is reversed by a molluscan C-reactive protein purified from *Achatina fulica* (Bowdich)” at the 52nd Annual Meeting of the Society of Toxicology (SOT), held in San Antonio, Texas from March 10-14, 2013.

Ongoing Research Projects in the Department:

- 1) Name of the CC-PI: Professor Samir Bhattacharya
Dr. Surjya Kumar Saikia (Co-Investigator); Title of the Project: “Stock characterization, captive breeding, seed production and culture of Hilsa (*Tenualosa ilisha*)”; Sponsored by: ICAR, Govt. of India (CIFRI/NF/hilsa/2012/P/6912); Amount Sanctioned: Rs. 159.7478 Lakhs.
- 2) Name of the PI: Professor Shelley Bhattacharya
Professor Samir Bhattacharya (Mission Director); Dr. Sudipta Maitra (Program Coordinator); Title of the Project: “North-East exploration for pharmaceutical” (a Plan Period Project for 5 years in collaboration with CSIR-NEIST, Jorhat); Sponsored by: CSIR, Govt. of India (HCP 0005); Amount Sanctioned: Rs. 214 Lakhs.
- 3) Name of the PI: Professor Shelley Bhattacharya
Professor Samir Bhattacharya (Co-PI); Dr. Ansuman Chattopadhyay (Co-PI); Dr. Sudipta Maitra (Co-PI); Title of the Project: “Expression of an epigenetically silenced tumor suppressor gene RASSF1A in human cancer cells by Mahanine:

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- A lesson from human prostate cancer cell study and a promise for human cancer treatment"; Sponsored by: DST, Govt. of India (VI-D&P/289/08-09/TDT); Amount Sanctioned: Rs. 172.866 Lakhs; Date of completion: March 31, 2013.
- 4) Name of the PI: Professor Shelley Bhattacharya
Professor Samir Bhattacharya (Co-PI); Dr. Sudipta Maitra (Co-PI); Title of the Project: "A flavone glycoside compound isolated from *Cajanus cajan* induces the expression of bilirubin-ugt gene that reduces cellular bilirubin accumulation in liver cells"; Sponsored by: CSIR, Govt. of India (60(0091)/09/EMR-II); Amount Sanctioned: Rs. 29,38,333/-; Date of completion: December 31, 2012.
 - 5) Name of the PI: Professor Arun Kumar Ray
Title of the Project: "Mode of association of autochthonous bacteria in the gastrointestinal tracts of some freshwater fish and their identification". Sponsored by: UGC, Govt. of India. Amount sanctioned: Rs. 7,00,000.
 - 6) Name of the PI: Professor Arun Kumar Ray
Title of the Project: "Characterization and identification of phytase-producing bacteria from fish gut and their application in formulation of plant-based carp diets". Sponsored by: CSIR, Govt. of India. Amount sanctioned: Rs. 12,00,000.
 - 7) Name of the PI: Professor Saumen Kumar Maitra
Title of the Project: "Role of melatonin in gonadal maturation in Indian carp *Catla catla*"; Sponsored by: DBT, Govt. of India (BT/PR11423/AAQ/03/421/2008); Amount Sanctioned: Rs. 23,08,000.
 - 8) Name of the PI: Professor Saumen Kumar Maitra
Title of the Project: "Functional characterization of gastrointestinal melatonin in carp *Catla catla*"; Sponsored by: CSIR, Govt. of India (37(1390)/09/EMR-I dated 07.10.2009); Amount Sanctioned: Rs. 13,42,485.
 - 9) Name of the PI: Professor Saumen Kumar Maitra
Title of the Project: "Fish Farming Development in Nepal (FFDN)" (In collaboration with Norwegian University of Science Technology (NTNU); Fisheries Research Division, Nepal Agricultural Research Council (NARC); Kathmandu University, Aquatic Research Unit (Aquatic Ecology Center); Delhi University and Sweco-Groner); Sponsored by: The Norwegian Ministry of Foreign Affairs; Amount Sanctioned: 18,400,000 (Eighteen million and four hundred thousand Norwegian Kroner)/9,000,000 (Nine million Norwegian Kroner, for NTNU including the funds for Visva-Bharati and Delhi University, India).
 - 10) Name of the PI: Professor Santi P. Sinha Babu
Professor Samir Bhattacharya (Co-PI); Title of the Project: "Product development of *Phyllanthus niruri* and *Glycine max* (L.) Merr., formulation for the management of diabetes and associated complications, its validation, standardization, preclinical and pharmacological evaluation" (In collaboration with Sri Ramachandra University, Chennai and M/s. East India Pharmaceutical Works Ltd., Kolkata); Sponsored by: DST, Govt. of India (VI/D&P/413/2012-2013/TDT(G)); Amount Sanctioned: Rs. 65.35 Lakhs.
 - 11) Name of the PI: Professor Santi P. Sinha Babu
Title of the Project: "Curcumin: a potential compound for the control of bancroftian filariasis"; Sponsored by: CSIR, Govt. of India (37(1516)/11/EMR-II dated 19.12.2011); Amount Sanctioned: Rs. 17 Lakhs.
 - 12) Name of the PI: Dr. Ansuman Chattopadhyay
Dr. Samar Kumar Saha (Co-PI); Title of the Project: "A highly efficient technique for induced breeding of Indian major carp"; Sponsored by: West Bengal Department of Science and Technology (WBDST), Govt. of West Bengal; Amount Sanctioned: Rs. 17.52 Lakhs; Date of completion: March 31, 2013.
 - 13) Name of the PI: Dr. Ansuman Chattopadhyay
Title of the Project: "Isolation, characterization and anti-cancer property of endophytic fungal metabolites from North-Eastern India"; Sponsored by: DBT, Govt. of India; Amount Sanctioned: Rs. 37.96 Lakhs.
 - 14) Name of the PI: Dr. Ansuman Chattopadhyay
Title of the Project: "Arsenic-induced genotoxicity and modulation of trace elements in mammalian cells"; Sponsored by: UGC-Department of Atomic Energy-Consortium for Scientific Research (UGC-DAE-CSR), Kolkata Centre; Amount Sanctioned: Rs. 6.93 Lakhs; Date of completion: December 21, 2012.

- 15) Name of the PI: Dr. Dipak Kumar Mandal
Title of the Project: "Carp culture on the basis of insect food"; Sponsored by: UGC, Govt. of India; Amount Sanctioned: Rs. 5, 54,800.
- 16) Name of the PI: Dr. Dipak Kumar Mandal
Title of the Project: "Effect of mercury on the olfactory organ of an Indian Major carp, *Labeo rohita* (Hamilton)"; Sponsored by: UGC-BSR RFSMS (Fellowship to Debasree Ghosh); Amount Sanctioned: As applicable.
- 17) Name of the PI: Dr. Dipak Kumar Mandal
Title of the Project: "Effect of nonylphenol ethoxylate on the gonadal maturation of *Labeo bata* (Hamilton)". Sponsored by: UGC Rajib Gandhi Research Fellowship (Fellowship to Koushik Roy); Amount sanctioned: As applicable.
- 18) Name of the PI: Dr. Dipak Kumar Mandal
Title of the Project: "Morphological and functional characterization of the olfactory system and olfaction mediated behavioural study on freshwater fish". Sponsored by: UGC Rajib Gandhi Research Fellowship (Fellowship to Ishita Samajdar); Amount sanctioned: As applicable.
- 19) Name of the PI: Dr. Larisha M. Lyndem
Title of the Project: "An *in vitro* treatment of medicinal plants of West Bengal on tapeworms"; Sponsored by: UGC, Govt. of India; Amount Sanctioned: Rs. 7, 56,000.
- 20) Name of the PI: Dr. Sudipta Maitra
Title of the Project: "Regulation of gonadotropin-dependent oocyte maturational competence in catfish (*Clarias batrachus*)"; Sponsored by: UGC, Govt. of India; Amount Sanctioned: Rs. 6, 91,800/-
- 21) Name of the PI: Dr. Sudipta Maitra
Title of the Project: "Attempt to conserve endangered catfishes of Arunachal hill streams by manipulating germ cell maturation" (In collaboration with Rajiv Gandhi University, Itanagar); Sponsored by: DBT, Govt. of India; Amount Sanctioned: Total: Rs. 67,788/- Visva-Bharati Component: Rs. 35, 46,000/-
- 22) Name of the PI: Dr. Surjya Kumar Saikia
Title of the Project: "Evaluation of natural feed selectivity and trophic status of Rohu (*Labeo rohita* H) for periphyton-based aquaculture system"; Sponsored by: UGC, Govt. of India; Amount Sanctioned: Rs. 5, 36,000/

Extension activities/NSS/Cultural and other activities organised by the Department and participated by the Teachers and students of the Department.

- 1) The Department organized Science Academies' Lecture Workshop entitled "Emerging Paradigms in Life Sciences" during November 19-20, 2012. This was sponsored and supported by the Indian Academy of Sciences, Bangalore; Indian National Science Academy, New Delhi and The National Academy of Sciences, Allahabad, India. Dr. Sudipta Maitra acted as the Coordinator and Professor Shelley Bhattacharya was the Convener of the Workshop. The Lecture Workshop was inaugurated by the Hon'ble Vice Chancellor, Professor Sushanta Dattagupta at 10 a.m. on November 19, 2012 preceded by an introduction to the program by the Convener, and addresses by the Dean, Faculty of Science, Professor Arun Kumar Ray and the then Head of the Department of Zoology, Professor Saumen Kumar Maitra. The Hon'ble Vice-Chancellor encouraged such activities in the campus and stimulated the students to actively participate during the lecture sessions. He also dwelt upon the mandate of all three Science Academies in India to spread Science teaching from the Universities to the undergraduate colleges. The target audience of the workshop was the undergraduates who have just stepped in to the realm of life sciences. The Hon'ble Vice-Chancellor hoped that such workshops would drive the students to become researchers in basic sciences rather than taking up lucrative jobs. The workshop was planned for two days and there were 75 undergraduate students including two faculty members from Bolpur College (Burdwan University), a well known undergraduate college in the vicinity of Santiniketan. The undergraduate students of the Botany and Zoology departments and all research scholars of the Department of Zoology also attended the workshop. The active participation of the students in all the lecture sessions of one and half hour each was evident from the highly energetic and lively interactions they had with the speakers. The topics of the lectures were varied. All students were unified in their opinion that the Lecture Workshop has boosted their interest in life sciences.

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- 2) Annual Study tour was organized by the Department during December 28, 2012 to January 03, 2013. In total, 51 students (M.Sc. Sem-I=11; M.Sc. Sem-III- 20 and B.Sc. Part-III-20) escorted by Dr. Ansuman Chattopadhyay (Teacher-in-charge), Dr. Surjya Kumar Saikia, Mr. Shyamal Kumar Saha and Mrs. Kalyani Mondal visited Gopalpur and Vishakapatnam. All the students enjoyed the excursion.
- 3) The Teachers, Non-teaching staff, Research scholars and the students actively participated in celebrating the 'Gandhi Punyaha' in true spirit in the Department on March 10, 2013.
- 4) During this period, the following students delivered their Pre-Ph.D. Seminars:

Sl. No.	Date	Name	Topic
(i)	17.08.2012	Sandip Mukherjee	Molecular mechanisms involved in the regulation of C-reactive protein expression in <i>Achatina fulica</i> .
(ii)	09.10.2012	Sanghamitra Das	Amelioration of arsenic-induced thyrotoxicity and testicular toxicity by selenium.
(iii)	17.12.2012	Mahammed Moniruzzaman	Efficacy of melatonin as a photoperiodic messenger in the regulation of ovarian functions in Indian major carp <i>Catla catla</i> .
(iv)	12.01.2013	Arun Guha	Population dynamics and control of piscine ectoparasite <i>Argulus bengalensis</i> Ramakrishna 1951 (Crustacea: Branchiura).
(v)	11.02.2013	Madhumita Roy	Impact of mangrove detritus on detritivorous fish dynamics in the food web of Hooghly-Matla estuarine complex- A modelling approach.
(vi)	12.02.2013	Goutam Banerjee	Mode of association and identification of gastrointestinal bacteria in freshwater fish.
(vii)	26.02.2013	Ananya Nayak	Combined effect of anti-Wolbachia antibiotics and albendazole in the control of bancroftian filariasis.

Academic distinctions gained by Teachers/Scholars or the Department as a whole (Like recognition as D.S.A. or C.A.S. etc.):

The Nature Publishing Index ranks institutions according to the number of primary research articles they publish in Nature journals. Nature and its family of Nature-branded sister journals is world-renowned as the pre-eminent platform for publication of the very best international research. These rankings are based on the number of papers that were published within the last 12 months. These rankings only include papers that were published as research articles (Articles, Letters and Brief Communications) or reviews in Nature and/or Nature monthly research journals. The index is updated weekly. According to the Current Index date range : 2012-04-16-2013-04-05 for Research Articles, Visva-Bharati ranked 179 among 725 Institutions/Universities in the Asia-Pacific region. The Department is proud of this achievement of our University in international research arena, which could be possible due to the following publication:

Durba Pal, Suman Dasgupta, Rakesh Kundu, Sudipta Maitra, Gobardhan Das, Satinath Mukhopadhyay, Sukanta Ray, Subeer S. Majumdar and Samir Bhattacharya. Fetuin-A opens toll gate for lipid-induced insulin resistance. *Nature Medicine* 18(8):1279-1285, 2012.

Academic distinction achieved by the Department

Recognized by the UGC, Govt. of India as Centre of Advanced Study (CAS Department) since April 2007. The 1st CAS was successfully accomplished during April 2007- March, 2012. The 2nd CAS has been initiated from April 01, 2012 and shall continue for 5 years.

Academic distinction achieved by the Teachers

Samir Bhattacharya,

Emeritus Professor

- ❑ Received the prestigious Professor S. C. Mahalanobis Memorial Oration Award for the year 2012 from the Physiological Society of India.

Shelley Bhattacharya,

NASI Senior Scientist Platinum Jubilee Fellow

- ❑ Acted as Convener at Science Academies' Lecture Workshop "Emerging Paradigms in Life Sciences" held at the Department of Zoology, Visva-Bharati, Santiniketan during November 19-20, 2012 (Sponsored and supported by Indian Academy of Sciences, Bangalore; Indian National Science Academy, New Delhi and The National Academy of Sciences, Allahabad, India).
- ❑ Acted as Co-Chairperson of the International Symposium in Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.

Arun Kumar Ray

- ❑ Collaborative research in the area of Fish Microbiology with Professor Einar Ringø, Department of Marine Biotechnology, Norwegian College of Fishery Science, University of Tromsø, Norway.
- ❑ Member of the Editorial Board of the Journal: Acta Ichthyologica et Piscatoria (Poland)
- ❑ Reviewer of the following Journals:
 - Aquaculture (Elsevier)
 - Aquaculture Research (Blackwell)
 - Aquaculture Nutrition (Blackwell)
 - Journal of the World Aquaculture Society (Blackwell)
 - Bioresource Technology (Elsevier)
 - Acta Ichthyologica et Piscatoria (Poland)
 - Natural Product Radiance (CSIR, India)
 - Israeli Journal of Aquaculture (Bamidgeh, Israel)
 - Food and Chemical Toxicology (Elsevier)
 - Proceedings of the Zoological Society (Kolkata, Springer)

Saumen Kumar Maitra

- ❑ Received the 'GMB Award of Excellence in Integrative & Comparative Biology' (2012) for outstanding achievement in biology as biologist.
- ❑ Nominated by the Govt. of West Bengal as a Member of the Executive Committee and Council of the 'West Bengal State Council of Science & Technology.'
- ❑ Acted as Guest Editor of "Pineal Gland & Melatonin" issue of the Journal of Endocrinology & Reproduction (2012).
- ❑ Invited as a Reviewer of the following Journals:
 - General and Comparative Zoological Science (Elsevier)
 - Comparative Biochemistry and Physiology (Elsevier)
 - Neurochemistry International (Elsevier)
 - Aquaculture Research (Elsevier)
 - Therapeutic Advances in Endocrinology and Metabolism (SAGE Publications)
 - Ecotoxicology and Environmental Safety (Elsevier)
 - Veterinary Clinical Pathology (Wiley-Blackwell)
 - Journal of Fish Biology (Wiley Blackwell)

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- African Journal of Environmental Science and Technology
- Asian Fisheries Science Journal (Selangor, Malaysia)

Santi P. Sinha Babu

- Invited as a Reviewer of the following Journals:
 - Microscopy Research and Technique (John Wiley and Sons)
 - Immunological Investigations (Taylor & Francis)
 - Pharmaceutical Biology (Informa Pharmaceutical Science)
 - Journal of Parasitic Diseases (Springer)
 - Cell Proliferation
 - BMC Cancer

Santanu Ray

- Secretary, Austral-Asia Chapter, International Society of Ecological Modelling (ISEM), Head Office, Maryland, USA.
- Selected as an International Organizing Committee Member of the International Conference on "Ecological Modelling for Ecosystem Sustainability in the Context of Global Change", scheduled on October 28-31, 2013 at Toulouse, France.
- Associate Editor of "Ecological Modelling - An International Journal on Ecological Modelling and System Ecology" published by Elsevier, Netherlands (ISSN 0304-3800).
- Member of the Editorial Board of the following Journals:
 - Ecological Informatics (Elsevier); (First and only member from India from November, 2011)
 - Network Biology (International Academy of Ecology and Environmental Sciences, ISSN 2220-8879)
 - Computational Ecology and Software (International Academy of Ecology and Environmental Sciences, ISSN 2220-721X)
 - Journal of Ecosystem (Hindawi publications)
 - Chinese Journal of Population Resources and Environment (Taylor and Francis)
 - Biospectra-International Journal of Life Sciences (Madhawi Shyam Educational Trust, Ranchi, Jharkhand, India)
 - Journal of Theoretical and Experimental Biology - An International Journal on Basic and Applied Biology (Elias Academic Publishers, India)
- Reviewer of the following Journals:
 - Ecological Modelling (Elsevier, Netherlands)
 - Ecological Complexity (Elsevier, USA)
 - Journal of Biological Systems (World Scientific Publication Co., Canada)
 - BMC Ecology (Biomedical Centre, Michigan, USA)
 - International Journal of Phytoremediation (Taylor and Francis, USA)
 - Journal of Theoretical Biology (Elsevier, Netherlands)
 - Mathematical and Dynamical Systems in Biological Sciences (France)
 - Current Science (Indian Academy of Science, Bangalore, India)
 - Research and Reviews in BioSciences (Trade Science Inc., India)
 - Journal of Theoretical and Experimental Biology (Elias Academic Publishers, India)
 - Science and Culture (Indian Science News Association)
 - Climate Change (Springer)
 - Ecological Engineering (Elsevier)

- Applied Mathematical Modelling (Elsevier)
- Ecological Informatics (Elsevier)

Ansuman Chattopadhyay

- ❑ Acted as Joint Secretary in the International Symposium in Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.
- ❑ Acted as Resource Person for the "National Initiative for Undergraduate Students (NIUS)" programme of Homi Bhabha Centre for Science Education, TIFR, Mumbai.
- ❑ Acted as Member of Academic Committee for "National Biology Olympiad Programme" organized by Homi Bhabha Centre for Science Education, TIFR, Mumbai.
- ❑ Reviewer of the following Journals:
 - British Journal of Medicine and Medical Research (SCIENCEDOMAIN International)
 - Cell Proliferation (John Wiley and Sons)
 - International Journal of Medicine and Medical Sciences (IJMMS)

Samar Kumar Saha

- ❑ Invited as Reviewer of the following Journal:
 - Zootaxa (Magnolia Press)

Sudipta Maitra

- ❑ Acted as Visiting Fellow under Centre with Potential for Excellence in Biodiversity in the Faculty of Life Science at Rajiv Gandhi University, Itanagar, Arunachal Pradesh, India.
- ❑ Acted as Joint Secretary in the International Symposium on Molecular Signaling organized by the Department of Zoology, Visva-Bharati, Santiniketan during February 18-21, 2013.
- ❑ Acted as Coordinator in Science Academies' Lecture Workshop "Emerging Paradigms in Life Sciences" held at Department of Zoology, Visva-Bharati, Santiniketan during November 19-20, 2012.
- ❑ Reviewer of the following Journals:
 - Indian Journal of Experimental Biology (CSIR-NISCAIR)
 - Proceedings of the Zoological Society, Kolkata, India (Springer)

Academic distinction achieved by the Scholars

Joyita Mukherjee was selected in Southern African Young Scientists Summer Programme (SA-YSSP), in collaboration with International Institute of Applied Systems Analysis (IIASA), Austria and University of Free State, South Africa and completed project from December 2012-February 2013 on 'Robustness Measures of Aquatic Ecosystems using Network Analysis'.

Publications within the year April 2012-March 2013

Books/Book Chapters:

1. Sandip Mandal, Samar Kumar Roy and Santanu Ray, An aquatic ecosystem model: Analysis of different states - goal function and mathematical aspects. Lambert Academic Publishing, pp- 106. (ISBN 978-3-659-27281-3) Germany, 2012.
2. Joyita Mukherjee, Madhumita Roy, Santanu Ray, Phani Bhusan Ghosh and Angshuman Sarkar. Mechanisms of transformation of various forms of carbon and cycling pathways in the Hooghly estuarine system. In: Estuaries. Editors: Steve Jordon published by Nova Science publication, Chapter 6 pp. 93-114. (ISBN: 978-1-61942-083-0) NY, USA, 2012.
3. Santanu Ray. Exergy and its assessment in ecological system. In: Recent Trends in Zoology with Special Emphasis on Animal Diversity, Fisheries and Genetics, Editors: L. N. Neogi and S. K. Sou. Published by Levant Books, 2012.

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Monographs:

4. **Soumen Kumar Maitra** acted as Guest Editor of "Pineal Gland & Melatonin" issue of Journal of Endocrinology & Reproduction (2012).
5. **Sudipta Maitra**. "Estrogen Receptors" (ISBN 978-3-659-32756-8); Publisher: LAP LAMBERT Academic Publishing, Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany.

Research Papers:

6. Samir Bhattacharya, Rakesh Kundu, Suman Dasgupta and Sushmita Bhattacharya. Mechanism of lipid-induced insulin resistance: An overview. *Endocrinology and Metabolism* 27(1):12-19, 2012.
7. Soma Seal, Priyajit Chatterjee, Sushmita Bhattacharya, Durba Pal, Suman Dasgupta, Rakesh Kundu, Sandip Mukherjee, Shelley Bhattacharya, Mantu Bhuyan, Pranab R. Bhattacharyya, Gakul Baishya, Nabin C. Barua, Pranab K. Baruah, Paruchuri G. Rao and Samir Bhattacharya. Vapor of volatile oils from *Litsea cubeba* seed induces apoptosis and causes cell cycle arrest in lung cancer cells. *PLoS One* 7(10):1-11, 2012.
8. Durba Pal, Suman Dasgupta, Rakesh Kundu, Sudipta Maitra, Gobardhan Das, Satinath Mukhopadhyay, Sukanta Ray, Subeer S. Majumdar and Samir Bhattacharya. Fetuin-A opens toll gate for lipid-induced insulin resistance. *Nature Medicine* 18(8):1279-1285, 2012.
9. Sarmishtha Chatterjee, Atish Ray, Sandip Mukherjee, Soumik Agarwal, Rakesh Kundu and Shelley Bhattacharya. Low concentration of mercury induces autophagic cell death in rat hepatocytes. *Toxicology and Industrial Health* 2012, doi:10.1177/0748233712462442
10. Shelley Bhattacharya, Sarmishtha Chatterjee and Shuvaree Sarkar. Patterns of arsenic exposure to children: new born to toddler stages. *Journal of Natural Sciences Research*, 2(6):39-47, 2012.
11. A.K. Ray, K. Ghosh and E. Ringø. Enzyme-producing bacteria isolated from fish gut: a review. *Aquaculture Nutrition* 18:465-492, 2012.
12. A.K. Ray, S. Mondal and T. Roy. Optimization of culture conditions for production of protease by two bacterial strains, *Bacillus licheniformis* BF2 and *Bacillus subtilis* BH4 isolated from the digestive tract of Bata, *Labeo bata* (Hamilton). *Proceedings of the Zoological Society* 65:33-39, 2012.
13. T. Roy, G. Banerjee, S. K. Dan and A.K. Ray. Optimization of fermentation conditions for phytase production by two strains of *Bacillus licheniformis* (LF1 and LH1) isolated from the intestine of rohu, *Labeo rohita* (Hamilton). *Proceedings of the Zoological Society* 2013, doi:10.1007/s12595-012-0057-9.
14. S. Mukhopadhyay, S.N. Roy, and V.C. Joy. Enhancement of soil enzyme activities by the feeding impact of detritivore arthropods on tropical forest tree leaf litters. *International Journal of Tropical Ecology* 55 (1):2013 (In Press).
15. S. Sarkar and P. Nath. Purification and partial characterization of GtHs (cflH and cffSH) from Indian walking catfish (*Clarias batrachus*) (L.) and development of a homologous ELISA for cflH. *Aquaculture Research* 43:879-896, 2012.
16. S.K. Maitra, A. Chatteraj, S. Mukherjee and M. Moniruzzaman. Melatonin: A potent candidate in the regulation of fish oocyte growth and maturation. *General and Comparative Endocrinology* 181:215-222, 2013.
17. M. Moniruzzaman M and S.K. Maitra. Influence of altered photoperiods on serum melatonin and its receptors (MT1 and MT2) in the brain, retina, and ovary in carp *Catla catla*. *Chronobiology International* 29:175-188, 2012.
18. P. Pal, K.N. Hasan and S.K. Maitra. Functional pleiotropy of melatonin in the regulation of reproduction: An overview. *Journal of Endocrinology & Reproduction* 16:33-43, 2012.
19. P. Saini, P. Gayen, A. Nayak, D. Kumar, N. Mukherjee, B.C. Pal and S.P. Sinha Babu. Effect of ferulic acid from *Hibiscus mutabilis* on filarial parasite *Setaria cervi*: Molecular and biochemical approaches. *Parasitology International* 61:520-531, 2012.
20. A. Nayak, P. Gayen, P. Saini, N. Mukherjee and S.P. Sinha Babu. Molecular evidence of curcumin-induced apoptosis in the filarial worm *Setaria cervi*. *Parasitology Research* 111:1173-1186, 2012.
21. A. Mukherjee, S.P. Sinha Babu and F.B. Mandal. Potential of salicylic acid activity derived from stress-induced (water) Tomato against *Meloidogyne incognita*. *Archives of Phytopathology and Plant Protection* 45:1909-1916, 2012.

22. A. Mukherjee and S.P. Sinha Babu. *Pseudomonas fluorescens* mediated suppression of *Meloidogyne incognita* infection of cowpea and tomato. Archives of Phytopathology and Plant Protection 46:607-616, 2013.
23. P. Gayen, A. Nayak, P. Saini, N. Mukherjee, S. Maitra, P. Sarkar and S.P. Sinha Babu. A double-blind controlled field trial of doxycycline and albendazole in combination for the treatment of bancroftian filariasis in India. Acta Tropica 125:150-156, 2013.
24. S. Mandal, M. Debnath, S. Ray, P.B. Ghosh, M.Roy and S. Ray. Dynamic modeling of dissolved oxygen in Hooghly-Matla estuarine system, West Bengal, India. Applied Mathematical Modelling 36:5952-5963, 2012.
25. S. Mandal, S. Ray and S.E. Jorgensen. Exergy as an indicator: Observations of an aquatic ecosystem model. Ecological Informatics 12:1-9, 2012.
26. S. Mandal, S. Ray and P.B. Ghosh. Modelling nutrient (dissolved inorganic nitrogen) and plankton dynamics at Sagar island of Hooghly-Matla estuarine system, West Bengal, India. Natural Resource Modelling 25:629-652, 2012.
27. J. Mukherjee and S. Ray. Carbon cycling from mangrove litter to the adjacent Hooghly estuary, India-A modelling study. Procedia Environmental Sciences 13:391-413, 2012.
28. S. Mandal, S. Ray and P.B. Ghosh. Comparative study of mangrove litter nitrogen cycling to the adjacent estuary through modelling in pristine and reclaimed islands of Sundarban mangrove ecosystem, India. Procedia Environmental Sciences 13:340-362, 2012.
29. S. Mandal, S. Ray and P.B. Ghosh. Modelling the impact of mangroves on fish population dynamics of Hooghly-Matla estuarine system, West Bengal, India. Procedia Environmental Sciences 13:414- 444, 2012.
30. M. Roy, S. Ray and P.B. Ghosh. Modeling of impact of detritus on detritivorous food chain of Sundarban mangrove ecosystem, India. Procedia Environmental Sciences 13:377?390, 2012.
31. S. Sarwardi, P.K. Mandal and S. Ray. Effect of refuge on competitive prey-predator system. Biosystems 110:133-148, 2012.
32. J. Mukherjee and S. Ray. A system dynamic modeling of carbon cycle from mangrove litter to the adjacent Hooghly estuary, India. Ecological Modelling (In Press).
33. S. Mandal, S. Ray and P.B. Ghosh. Process based modeling of the role of mangroves on fish population dynamics of Hooghly-Matla estuarine system, West Bengal, India. Ecological Modelling (In Press).
34. Debraj Roy, Debasree Ghosh and Dipak Kumar Mandal. Induction of metallothionein in the olfactory epithelium of *Channa punctatus* (Bloch) in response to cadmium exposure: An immunohistochemical study. Proceedings of Zoological Society 65(1):40?44, 2012.
35. Debasree Ghosh and Dipak Kumar Mandal. Histopathological effects and bioaccumulation of mercury in the kidney of an Indian major carp, *Labeo rohita* (Hamilton). Bulletin of Environmental Contamination and Toxicology 89:479-483, 2012.
36. Anuman Chattopadhyay. Understanding of mitosis and meiosis in higher secondary students of North-east India and the implications for genetics education. Education, 2(3):41-47, 2012; DOI: 10.5923/j.edu.20120203.04.
37. S. Kundu, S. Roy and L.M. Lyndem. *Cassia alata* L: Potential role as anthelmintic agent against *Hymenolepis diminuta*. Parasitology Research 2012, doi:10.1007/s00436-012-2950-6.
38. Arun Guha, Gautam Aditya and Samar Kumar Saha. Correlation between body size and fecundity in fish louse *Argulus bengalensis* Ramakrishna, 1951 (Crustacea: Branchiura). Journal of Parasitic Diseases 2012, doi:10.1007/s12639-012-0144-x.
39. Pranesh Chowdhury, Swadhin Kr Saha, Arun Guha and Samar Kumar Saha. Chemical and biochemical activities of sonochemically synthesized poly(N-isopropyl acrylamide)/ silica nanocomposite. Applied Surface Science 261:598-604, 2012.
40. P.P. Khan, S. Maitra. Participation of cAMP-dependent protein kinase and MAP kinase pathways during *Anabas testudineus* oocyte maturation. General and Comparative Endocrinology 181:88-97, 2013.
41. Debabrata Das and Sudipta Maitra. Multiple signalling pathways through estrogen receptor α and β World Journal of Science & Technology 2(7):93-102, 2012.

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42. S.K. Saikia. Proposal of new and simple descriptive measure of diet breadth. *Ecologia* 2(3): 85-92, 2012, DOI: 10.3923/ecologia.2012.85.92.
43. S. Nandi, S. Majumder and S.K. Saikia. Small Freshwater Fish Species (SFFs) culture: Issues from nutrient security, carp-SFF integration and feeding ecology. *Reviews in Fish Biology and Fisheries* 2012, doi:10.1007/s11160-012-9294-2.
44. S.K. Saikia and D.N. Das. Comparison Index (CI): A new and rapid procedure for measuring planktonic fluctuations. *Methods in Ecology and Systematics* 7(2):8-15, 2012.
45. S.K. Saikia, S. Nandi and S. Majumder. A review on the role of nutrients in development and organization of periphyton. *Journal of Research in Biology* 3(1):780-788, 2013.
46. S. Das, S. Nandi, S. Majumder and S.K. Saikia. New characterization of feeding habits of *Puntius sophore* (Hamilton, 1822) through morphometry. *Journal of fisheriesscience.com* (In Press).
47. Jin Il Lee*, Sutapa Mukherjee*, Kyoung-Hye Yoon, Meenakshi Dwivedi and Jaya Bandyopadhyay. The multiple faces of calcineurin signaling in *Caenorhabditis elegans*: Development, behaviour and aging. *Journal of Biosciences* (Springer), 38(2):2013 (In press). (*Authors with equal contribution)
9. Designing New Course/Curriculum or any other teaching innovations introduced by the Department: Nil
10. A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development:

About the department

The Department of Zoology, one of the pioneer departments under Siksha-Bhavana (Institute of Science) has a proud history of dedicated academic service for more than 45 years in teaching and research. The steady progress and development of the department is evident from our noteworthy achievements like the introduction of new courses of higher education, increase in the student intake capacity and faculty positions, interdisciplinary teaching and research in the frontier fields of Life Sciences, quantum of external funding for research, number of on-going research projects, number of Ph.Ds produced, number of research papers published in international and national journals, number of patents filed, and MOU signed for collaborative research with Research Institutes. The courses offered by the department at present are B.Sc. (Honours) and M.Sc in Zoology.

Our continued efforts in the coming years would be to build up this department to a centre of excellence with all modern facilities for teaching and research, to attract best students and researchers from all parts of the country and to provide quality education in this serene ashram campus of Santiniketan where the world makes a home in a single nest. This department has well developed infrastructure and sophisticated equipments for undertaking in-depth research in any branch of Integrative Biology. The excellent performances and success of the department in teaching, research is reflected by the placements of our students both in India and abroad. The department has been recognized by UGC for providing special assistance under SAP in 1994 and thereafter received grants like COSIST from UGC and FIST from DST. Because of the continued quality of teaching and research, UGC has recognized the department as Center of Advanced Study (CAS) in Zoology. The 1st CAS was successfully accomplished during April 2007-March 2012. The 2nd CAS has been initiated from April 01, 2012 and will continue for the next five years.

Any other relevant information

In order to expose the students to latest information in the modern fields of Biology and to attract them into active scientific research, our curriculum contains provisions for student initiatives like write-ups, seminars, project works, field works. Thus they get exposed to the vast biological literature other than text books. The subject of Zoology cannot be learned without practical classes and direct experience with the vast array of animals, their external and internal morphology, structural and functional relationships with other animal groups, interaction with the environment and ecological strategies, and evolutionary trends in the anatomical, biochemical, genetic and molecular architecture. Therefore the existing syllabus gives more or less equal importance to both theoretical and practical courses. The department has trained persons to handle the live/preserved animal specimens used for teaching and research. The existing animal

room is small but has all the facilities to house rabbits, mice and rats required for general classes and research. However, a bigger animal house with proper facilities for housing different groups of animals as per the recommendations of the Animal Ethics Committee is required. The department has placed a proposal for Animal House which is under processing. The department takes all measures to ensure the ethical aspects of preparing the animals for class and research purposes. The existing syllabus contains the minimum use of only easily available/cultivable groups of animals for practical demonstration and other experiments. Our students in undergraduate and postgraduate courses receive the best practical training not only in all aspects of Zoology but also in other branches of Life sciences like Biochemistry, Cell Biology, Genetics, Ecology, Immunology, and learn modern experimental techniques using sophisticated equipments. We proudly acknowledge that this type of advanced facilities could be created for the benefit of students only through the generous grants received from the UGC and DST for infrastructure development and by the hard labour of teachers. However, we are now facing acute shortage of space for further extensions of the building and development of student amenities like class rooms, practical labs, research labs, animal/fish rearing rooms, toilets, etc. At present, with the increase in the number of Ph.D. students' and to accommodate OBC students the department urgently requires additional rooms.

Particulars in details of the Departmental Library

- (a) Area in (Sq. meters) quoted for the library: 1250 sft.
- (b) Is there separate provision for Reading Room? No
- (c) Total No. of books: $1395+30+10=1435$
- (d) Total Number of books purchased during the year: 41
- (e) Total Number of Periodicals: 03
- (f) Total Number of Periodicals purchased during the year: Nil

DEPARTMENT OF BOTANY

(i) Students qualified in NET : Nil

(ii) Student qualified in GATE : 2

Departmental Seminar/Workshop:

(i) Seminar : Nil

(ii) Workshop : Nil

National and International Standard Conferences/Seminars/Workshops etc. attended by the faculty member:

Sudhendu Mandal

- Delivered welcome address and Introductory remarks at the Workshop on "Communication: Emerging Social Development-How & Wherefore" jointly organized by the Centre for Journalism & Mass Communication (CJMC) & Friedrich Ebert Stiftung (FES), Visva-Bharati, Santiniketan on 20th April 2012.
- Attended the Technical Advisory Committee (TAC) meeting of the Indian Statistical Institute on 21st May 2012.
- Delivered Welcome Address and Introductory Lecture at the 78th Foundation Day of the Indian Science News Association at the Bose Institute, Kolkata on 9th July 2012.
- Attended two meetings of the Executive Council of the Indian Science News Association in Kolkata as Member-Secretary.
- Attended two Editorial Board Meetings of the Journal Science and Culture, ISNA at the University of Calcutta, Kolkata.
- Attended one Executive Council meeting of the Plant Physiology Forum and Botanical Society of Bengal, at the Department of Botany, University of Calcutta, Kolkata.
- Delivered Invited Lecture on "Genesis of Science Education in India" at Meet the Scientist Programme of the XXVI Training Programme on Science Communication and Media Practice sponsored by the DST, Govt. of India, New Delhi organized by the Indian Science News Association, Kolkata from 9th July to 21st September 2012.
- Delivered an Invited Lecture on "Celebrated Writer Tarasankar" at the 115th Birth Anniversary of Tarasankar Bandyopadhyay organized by the Labpur Panchyat Samiti and B.D.O. Office, Govt. of West Bengal on 24th July 2012.
- Delivered a Lecture on "Tagore and Library" as Guest of Honour at the Inaugural Session of the National Seminar on "Rabindranath O Granthagar and Vigyansadhana" organized by the Central Library, Kalyani University, Kalyani on 14th August 2012.
- Participated in the Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" at the Palli Siksha-Bhavana, Visva-Bharati, Sriniketan from 1-3 September 2012.
- Delivered an Invited Lecture and Chaired the Scientific Session on Section 5 (Embryology and Reproductive Biology of Plants) at the II(X) International Botanical Conference of Young Scientists sponsored by Russian Academy of Sciences and Russian Botanical Society at the Komarov Botanical Institute of Russian Academy of Sciences, St. Petersburg, Russia from 11-16th November 2012.
- Participated in the Group Monitoring Meeting at the Department of Geobotany, Moscow State University, Moscow, Russia on 17th November 2012.
- Delivered Welcome address and introductory remarks at the 17th M.N. Saha Memorial Lecture of the Indian Science News Association at the Saha Institute of Nuclear Physics, Kolkata on 10th December 2012.
- Delivered Invited Lecture at the DST INSPIRE INTERNSHIP Winter Camp- organised by the Integrated Science Education & Research Centre, Visva-Bharati, Santiniketan on 11th December 2012.

- Delivered welcome address and introductory remarks at the Acharya P.C. Ray Memorial Lecture (150th Birth Anniversary) of the Indian Science News Association at the Bose Institute, Kolkata on 21st December 2012.
- Participated with a paper in the Plant Sciences Section of the 100th Indian Science Congress held at the University of Calcutta, Kolkata from 3-7th January 2013.
- Delivered an Invited Lecture and Chaired the Invited Lecture Session I of the National Conference on "Reprographic Rights and Copyright Act: Challenges and Management" organized by Library, Documentation & Information Science Division of the Indian Statistical Institute, Kolkata on 7th March 2013.
- Delivered the Valedictory address at the National Seminar organized by the Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March 2013.
- Chaired the Technical Session I and addressed at the National Seminar on "Recent Advances in Rice Genomics and Biotechnology" organized jointly by the Department of Biotechnology and Palli Siksha-Bhavana, Visva-Bharati, Santiniketan on 23rd March 2013.
- Delivered an Invited Lecture and chaired the 1st Scientific Session of the National Symposium on "Aerobiology for Sustainable Management of Plant, Animal and Human Health" organized by the Centre of Advanced Study in Life Sciences, Manipur University, Manipur sponsored by UGC, DBT, CSIR and DST, Govt. of India, New Delhi on 25th March 2013.
- As Expert Member attended and participated in the Introductory Meeting at the ICAR, Ministry of Agriculture, Govt. of India, Krishi-Bhavana, New Delhi on 11th October 2012 to discuss about the QRT of Sorghum and AICSIP.
- As Expert Member of the QRT of Sorghum (ICAR, Govt. of India, New Delhi), visited and inspected the following universities/institutes for All India Coordinated Sorghum Improvement Project of Govt. of India during 2012-2013: (i) Directorate of Sorghum Research, Hyderabad (A.P.); (ii) Acharya N.G. Ranga Agricultural University, Palem (A.P.); (iii) Maharana Pratap University of Agriculture & Technology, Udaipur (Rajasthan); (iv) Dr. Panjabrao Deshmukh Krishi Vidyapith, Akola (MS); (v) Marathwada Agricultural University, Parbhani (MS); (vi) Nimbkar Agricultural Research Institute, Phaltan (MS); (vii) University of Agricultural Sciences, Dharwad (Karnataka); (viii) Tamil Nadu Agricultural University, Coimbatore (TN); (ix) CCS Haryana Agricultural University, Hisar (Haryana); (x) Navsari Agricultural University, Surat (Gujarat).

Sukanta Kumar Sen

- Chair person in the National Seminar on Recent Advances in Rice Genomics and Biotechnology, March 23-24th, 2013, Jointly Organised by Department of Biotechnology & Palli Siksha Bhavana, Visva-bharati, Santiniketan.
- Plenary lecture in the National Conference on Biodiversity and its Conservation, February 16-17, 2013 at Life Science Department, Sambalpur. University, Sambalpur.
- Plenary lecture in the International Conference on Environment and Human Health, November 28-29, 2012 at INSA, New Delhi organized jointly by the National Environment & Science Association, New Delhi and Jamia Hamdard University, New Delhi.
- Chair person in the IVth International Conference on Anthropogenic Impact on Environment and Conservation Strategy, November 2-4, 2012 at Department of Zoology and Botany, Ranchi University Ranchi.

Samit Ray

- Plenary lecture delivered in the National Seminar on "Utilization of microbes for sustainable development" at Orissa University of Agriculture and Technology.
- Invited lecture in the National Seminar on "Cryptogams - the key contributors to ecosystem" at the Department of Botany, Calcutta University.

Kashinath Bhattacharya

- Invited lecture in the 17th National conference of Indian Aerobiological Society on Impact of airborne Microbes held at MAEER's Arts, Commerce & Science College, Pune, Maharashtra from December 13-15th, 2012.

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Nirmalya Banerjee

- Chair person in the National Seminar on Recent Advances in Rice Genomics and Biotechnology, March 23-24th, 2013, Jointly Organised by Department of Biotechnology & Palli Siksha Bhavana, Visva-bharati, Santiniketan.

Rup Kumar Kar

- Participated in the National Seminar of Plant Physiology (2012) on 'Physiological and Molecular Approaches for Development of Climate Resilient Crops' at Department of Crop Physiology, College of Agriculture, Acharya N. G. Rangra Agricultural University, Rajendranagar, Hyderabad.

Narayan Chandra Mandal

- Invited lecture and chair person in the National Symposium on 'Plant Microbe Interaction and Crop Health Management' & Twenty fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone, 2012) organised by Department of Plant Protection, Palli-Siksha Bhavana, Institute of Agriculture, Visva-Bharati, held on October 6-7th, 2012.
- Participated in the 53rd Annual Conference of Association of Microbiologists of India (AMI), and International Conference on 'Microbial World: Recent Innovations and Future Trends' held on November 22-25th, 2012, organised by KIIT University, Bhubaneswar, Odisha 751 024. Presented three papers from my laboratory.
- Participated in the 100th Indian Science Congress Association organised by Calcutta University, January 3 to 7, 2013. Two papers presented from my laboratory.
- Participated in 'International Symposium on Molecular Signalling' held in Santiniketan between 18th to 21st February, 2013, organised by Department of Zoology, Visva-Bharati. Presented one paper from my group.

Subrata Mondal

- Presented two papers in the 17th National Conference on Indian Aerobiological Society, Pune-December, 2012 On "Impact of Airborne Microbes". Jointly organized by MAEER's Arts, Commerce & Science College, Pune and MAEER's Maharashtra Institute of Pharmacy, Pune. December 13th-15th, 2012.
- Presented a paper in the 100th Indian Science Congress, Kolkata. 3-7 January, 2013.

Swadesh Ranjan Biswas

Nil

Chowdhury Habibur Rahaman

- Participated in the International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.
- Participated in the National Seminar on "Botanical Products in Human Welfare" organized by the Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata, West Bengal on 11th January, 2013.
- Judge in the T.R.Sahu Award Session of International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.
- Delivered Invited Lecture in the National Seminar on "Botanical Products in Human Welfare" organized by the Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata, West Bengal on 11th January, 2013.

Soma Sukul nee Chunari

Nil

Adani Lokho

Nil

Jnanendra Rath

- Participated in the Workshop on Seaweed Liquid Fertilizer for Farmers and Entrepreneurs held in KVK, Sriniketan, Visva-Bharati on 20th Nov. 2012

Hema Gupta (Joshi)

Nil

Bomba Dam

- Invited promise speaker in the National Symposium on "Micro and Macro resources in Biomolecular Technology (MIBISEM)". 25-26th February 2013, University of North Bengal, India.
- Invited speaker in International Symposium on "New Horizons in Bioenergy Research (NHBR)". 14-16th January 2013, IIT Kharagpur, India.

Surendra Kumar Gond

Nil

Satish Kumar Verma

Nil

(b) National and International Standard Conferences/Symposia/Workshops attended by Research Scholars/Associates:

Ieshita Pan

- Participated and presented in the Golden Jubilee seminar on Advances in Agricultural Research toward Food Security and Environmental sustenance, September 1-3, 2013 at Palli Siksha Bhavana, Visva-Bharati, Sriniketan.

Debashis Bandyopadhyay

- Participated in the National Conference on Biodiversity and its Conservation, February 16-17, 2013 at Life Science Department, Sambalpur University, Sambalpur.

Kamala Das

- Participated in the National Conference on 'Biodiversity and its Conservation', February 16-17, 2013 at Life Science Department, Sambalpur University, Sambalpur.

Sayani Mukherjee

- Participated in the National Conference on Biodiversity and its Conservation, February 16-17, 2013 at Life Science Department, Sambalpur University, Sambalpur.

Khangembam Lenin Singh:

- Participated in the National Seminar of Plant Physiology (2012) on 'Physiological and Molecular Approaches for Development of Climate Resilient Crops' at Department of Crop Physiology, College of Agriculture, Acharya N. G. Ranga Agricultural University, Rajendranagar, Hyderabad.

Rajkumar Chakraborty

- Participated in the National Seminar of Plant Physiology (2012) on 'Physiological and Molecular Approaches for Development of Climate Resilient Crops' at Department of Crop Physiology, College of Agriculture, Acharya N. G. Ranga Agricultural University, Rajendranagar, Hyderabad.

Satyajit Das

Participated in the National Seminar of Plant Physiology (2012) on 'Physiological and Molecular Approaches for Development of Climate Resilient Crops' at Department of Crop Physiology, College of Agriculture, Acharya N. G. Ranga Agricultural University, Rajendranagar, Hyderabad.

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Jaladhar Pal

- Participated in the 8th All India Summer Research Training Programme on Molecular Techniques offered by Sengunthar Arts and Science College Tamilnadu- 637205, during 23rd May to 1st June 2012. Sponsored by Tamilnadu State Council for Science and Technology (TNSCST) Govt. of Tamil Nadu Chennai.

Tustu Mondal

- Participated in "Workshop on Statistical Data Analysis" conducted by the Applied Statics Unit, Indian Statistical Institute Kolkata during January 21st -25th 2013
- Participated in the National Seminar on Recent Advances in Rice Genomics and Biotechnology March 23-24th 2013. Jointly Organised by Department of Biotechnology & Palli Siksha Bhavana , Visva-Bharati.

Trina Chakraborty

Attended and presented a paper in the 17th National conference of Indian Aerobiological Society on Impact of airborne Microbes held at MAEER's Arts, Commerce & Science College, Pune, Maharashtra from December 13-15th, 2012.

Tanmoy Basak

Attended and presented a paper in the 17th National conference of Indian Aerobiological Society on Impact of airborne Microbes held at MAEER's Arts, Commerce & Science College, Pune, Maharashtra from December 13-15th, 2012.

Sipra Roy

Attended and presented a paper in the 17th National conference of Indian Aerobiological Society on Impact of airborne Microbes held at MAEER's Arts, Commerce & Science College, Pune, Maharashtra from December 13-15th, 2012.

Shampa Dutta

- Participated in the 53rd Annual Conference of Association of Microbiologists of India (AMI), and International Conference on 'Microbial World: Recent Innovations and Future Trends' held on 22nd to 25th November, 2012, organised by KIIT University, Bhubaneswar, Odisha 751 024.

Ranjan Ghosh

- Participated in a Workshop and hands on training on "Plant DNA fingerprinting", held on September 21 to October 5, 2012, organized by Bose Institute, Kolkata.
- 53rd Annual Conference of Association of Microbiologists of India (AMI), and International Conference on 'Microbial World: Recent Innovations and Future Trends' held on 22nd to 25th November, 2012, organised by KIIT University, Bhubaneswar, Odisha 751 024.
- Participated in 100th Indian Science Congress Association organised by Calcutta University, January 3 to 7, 2013.

Sunrit Basu Sarbadhikary

- Participated in 100th Indian Science Congress Association organised by Calcutta University, January 3 to 7, 2013.
- Participated and presented a paper in the National Seminar on Micro and Macro Resources in Biomolecular Technology, jointly organised by Departments of Biotechnology and Microbiology, North Bengal University, February 25-26, 2013.
- Participated in the Workshop on Fluorescence Microscopy held in University Science Instrumentation Centre, The University of Burdwan, November 22-23, 2013.

Soma Barman

- Participated in the 53rd Annual Conference of Association of Microbiologists of India (AMI), and International Conference on 'Microbial World: Recent Innovations and Future Trends' held on 22nd to 25th November, 2012, organised by KIIT University, Bhubaneswar, Odisha 751 024.
- Participated in the 100th Indian Science Congress Association organised by Calcutta University, January 3 to 7, 2013.
- Participated in the National Symposium on 'Plant Microbe Interaction and Crop Health Management' & Twenty fifth

Annual General Meeting of Indian Phytopathological Society (Eastern Zone, 2012) organised by Department of Plant Protection, Palli-Siksha Bhavana, Institute of Agriculture, Visva-Bharati, held on 6th to 7th October, 2012.

Biplab Bandopadhyay

- Participated in the lecture course on "Drug development and infectious diseases" held during January 14-18, 2013, organized by J.N.U., New Delhi, India.

Anirban Paul

- Participated in the National Seminar on Recent Advances in Rice Genomics and Biotechnology; March 23-24th 2013. Jointly Organised by Department of Biotechnology & Palli Siksha Bhavana , Visva-Bharati

Pradyut Biswas

- Participated and presented in the 17th National Conference on Indian Aerobiological Society, on "Impact of Airborne Microbes". Jointly organized by MAEER's Arts, Commerce & Science College, Pune and MAEER's Maharashtra Institute of Pharmacy, Pune. December 13-15th 2012.

Krishnendu Dey

- Participated and presented in the 17th National Conference on Indian Aerobiological Society, on "Impact of Airborne Microbes". Jointly organized by MAEER's Arts, Commerce & Science College, Pune and MAEER's Maharashtra Institute of Pharmacy, Pune. December 13-15th 2012.

Hemanta Saha

- Participated and presented in the 17th National Conference on Indian Aerobiological Society, on "Impact of Airborne Microbes". Jointly organized by MAEER's Arts, Commerce & Science College, Pune and MAEER's Maharashtra Institute of Pharmacy, Pune. December 13-15th 2012.

Ramanjan Ghanta

- Participated and presented in the 17th National Conference on Indian Aerobiological Society, on "Impact of Airborne Microbes". Jointly organized by MAEER's Arts, Commerce & Science College, Pune and MAEER's Maharashtra Institute of Pharmacy, Pune. December 13-15th 2012.

Uday Das

- Participated and presented paper in the International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects In Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.
- Participated and presented paper in the National Seminar on "Botanical Products in Human Welfare" organized by the Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata, West Bengal on 11th January, 2013.

Swarnendu Mondal

- Participated and presented paper in the International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.

Suman Kalyan Mandal

- Participated and presented paper in the International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.
- Participated and presented paper in the National Seminar on "Botanical Products in Human Welfare" organized by the

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Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata, West Bengal on 11th January, 2013.

Kumaresh Pal

- Participated and presented paper in the International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.
- Participated the National Workshop on "Eco-friendly Printing with Natural Dyes" organized by Silpa-Sadana, Sriniketan, Visva-Bharati, West Bengal during 8th - 9th December, 2012.
- Participated and presented paper in the National Seminar on "Botanical Products in Human Welfare" organized by the Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata, West Bengal on 11th January, 2013.

Sathi Saha

- Participated and presented paper in the International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on "Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)" organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra during 28th - 30th October, 2012.
- Participated in the National Workshop on "Eco-friendly Printing with Natural Dyes" organized by Silpa-Sadana, Sriniketan, Visva-Bharati, West Bengal during 8th - 9th December, 2012.
- Participated and presented paper in the National Seminar on "Botanical Products in Human Welfare" organized by the Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata, West Bengal on 11th January, 2013.

Sikha mondal

- Participated in the Workshop on Seaweed Liquid Fertilizer for Farmers and Entrepreneurs held in KVK, Sriniketan, Visva-Bharati on 20th Nov. 2012.

Ongoing Research Projects in the Department:

Sudhendu mandal

- Project entitled "Taxonomic Revision of the family Acanthaceae" funded by BSI, Govt. of India, Kolkata; Amount: Rs. 9.00 Lakh (As Co-PI).

Sukanta Kumar Sen

- Project entitled "Exploration of soil microorganisms for quality compost production"; funded by UGC, Govt. of India; Amount: Rs. 7.69 lakh (as PI).

Samit Ray

- Project entitled "Prospecting chemicals components from Cyanobacteria to deal with UV radiation" funded by CSIR (as PI).

Kashinath Bhattacharya

- Project entitled "Preparation of People's Biodiversity Register (PBR) of Birbhum district, West Bengal" funded by West Bengal Biodiversity Board, Ministry of Environment & Forests, Govt. of West Bengal; Amount: Rs. 4.56 lakh (as PI).
- Project entitled "Identification and immunochemical characterization of fungal spore allergens of West Bengal"; funded by UGC, Govt. of India; Amount: Rs 12,80,300 (as PI).

Nirmalya Banerjee

Project entitled "In vitro propagation and conservation of some rare and endangered species of Vanda and assessment of their genetic fidelity through molecular techniques"; funded by UGC, Govt. of India; Amount: Rs 7, 36,300 (as PI)

Rup Kumar Kar

- Project entitled "Interaction of reactive oxygen species and ethylene in regulating axis growth during seed germination" funded by UGC, Govt. of India; Amount: Rs. 10.62 lakh (as PI).
- Project entitled "Biochemical and molecular profiling of West Bengal folk rice germplasm with reference to abiotic stress tolerance" funded by WB-DST; Amount: Rs. 10 lakh (as Co-PI).

Narayan Chandra Mandal

- Project entitled "Exploitation of free-living phosphate solubilizing rhizobia for improvement of soil fertility and promotion of plant growth" funded by UGC, Govt. of India; Amount: Rs. 6.95 lakhs (as PI).
- Project entitled "Assessment of Anti-Fungal Activity of the Extracts of a Plant of North East Institute of Science & Technology (CSIR) and Searching for its Probable Mechanism of Action" funded by CSIR, Govt. of India; Amount: Rs. 20 lakhs (as PI).
- DBT-Twinning Project entitled "An Ethno-Botanical Survey of Indigenous Angiosperm Flora of Tripura and Assessment of Antimicrobial Potentials of those Plants" funded by DBT, Govt. of India; Amount: Rs. 34.10 lakhs (14.5 lakhs for Visva-Bharati) (as PI).

Subrata Mondal

- Project entitled "Pollination ecology of some species of Euphorbiaceae" funded by UGC, Govt. of India; Amount: Rs. 11,65,800 (as PI).

Swadesh Ranjan Biswas

Nil

Chowdhury Habibur Rahaman

- Project entitled "Inventorization and documentation of ethnomedicinal plants from Laterite zone of West Bengal with special reference to Bioprospecting of selected plant species" funded by UGC, Govt. of India; Amount: Rs. 11.58 lakh (as PI).
- Project entitled "Preparation of People's Biodiversity Register (PBR) of Birbhum district, West Bengal" funded by West Bengal Biodiversity Board, Ministry of Environment & Forests, Govt. of West Bengal; Amount: Rs. 4.56 lakh (as PI).

Soma Sukul nee Chunari

- Project entitled "Homeopathic potencies, their Spectroscopic characteristics and their effect on proteins" funded by The Asiatic Society (May, 2009 -Jan. 2013).
- Project entitled "Study of Pteridophytic flora and its Ethnobotany in rarh area, West Bengal" funded by UGC (Feb, 2010-Jan, 2013).
- Project entitled "A study of the mechanism of action of homeopathic potencies through plant models" funded by Dr. Bholanath Chakraborty Memorial Trust, Howrah-1. (Feb. 2013- Feb. 2016).

Adani Lokho

Nil

Jnanendra Rath

- Project entitled "Algal diversity of East Calcutta wetland, Ramsar site and evaluation of its phycoremediation potential" Funded by UGC, Govt. of India; Amount: Rs. 7.47 lakhs; (Completed in October 2012. As PI).
- Project entitled "Molecular taxonomy of stress tolerant cyanobacteria and characterization of stress proteins and antioxidant defense systems in selected anhydrobiotes" Funded by Department of Science and Technology, Govt. of India; Amount: 30 lacks; (As Co-PI).

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- Project entitled "Prospecting chemical components from Cyanobacteria to deal with UV Radiation" Funded by CSIR, Govt. of India; Amount: 20 lakhs; (As Co-PI).

Hema Gupta (Joshi)

- Project entitled "Preparation of People's Biodiversity Register (PBR) of Birbhum district, West Bengal" funded by West Bengal Biodiversity Board, Ministry of Environment & Forests, Govt. of West Bengal; Amount: Rs. 4.56 lakh (as Co-PI).

Bomba Dam

Nil

Surendra Kumar Gond

- Project entitled "Bioprospecting of endophytic fungi from Rauvolfia serpentina for reserpine and antimicrobials from West Bengal, India" funded by UGC, Govt. of India; Amount: Rs. 6.0 lakhs; (As PI).

Satish Kumar Verma

Nil

Extension activities/NSS/Cultural and other activities organized by the Department and participated by the Teachers and students of the Department:

Nil

Academic distinctions gained by Teachers/Scholars or the Department as a whole (like recognition as D.S.A. or C.A.S. etc.):

(a) Teachers

Sudhendu mandal

- Honorary Secretary and Executive Council Member, Indian Science News Association, Kolkata.
- Honorary Treasurer and Executive Council Member, West Bengal Academy of Science & Technology, Kolkata.
- President (Honorary), Birbhum Banabani Chetana Udyog, Bolpur.
- Vice-President (Honorary), Parijat Sanskritic Kendra, Kolkata.
- Member, Executive Council of the Botanical Society of Bengal, Kolkata.
- Member, Executive Council of the Plant Physiology Forum, Kolkata.
- Expert Member of the QRT (Quinquennial Review Team) of Sorghum and All india Sorghum Improvement Project of the Indian Council of Agricultural Research (ICAR), New Delhi (2012-2013).
- Member, Advisory Committee and Chairperson of the Technical Session III: Research Evaluation by Subject of the National Workshop on "Using Different Metrics for Assessing Research Productivity" organized by the Indian Statistical Institute, New Delhi.
- Member and Invited Speaker of the 150th Birth Anniversary Celebration of "Jagadish Chandra, Rabindranath and Prafulla Chandra" of the Indian Science News Association, Kolkata.
- Expert Member, Technical Advisory Committee (TAC) of Library, Documentation and Information Sciences Division of the Indian Statistical Institute, Kolkata.
- Expert Member of the Committee for Assessment of the Promotion/Career Advancement & Screening -cum-Assessment/ F.C.S. of the Bose Institute, Kolkata.
- Expert Member, Selection Committee for the posts of Lecturers/Reader/Professors of different Universities/ Institutions.
- Member, Organising Committee of the Workshop on "Communication: Emerging Social Development-How & Wherefore" organized by the Centre for Journalism & Mass Communication (CJMC) & Friedrich Ebert Stiftung (FES), Visva-Bharati, Santiniketan from 20-22 April 2012.

- Invited Speaker at the 115th Birth Anniversary of Tarasankar Bandyopadhyay organized by the Labpur Panchyat Samiti and B.D.O. Office, Govt. of West Bengal on 24th July 2012.
- Guest of Honour at the Inaugural Session and Chairperson of the Second Session of the National Seminar on "Rabindranath O Granthagar & Vigyansadhana" organized by the Central Library, Kalyani Univerasity, Kalyani on 14th August 2012.
- Invited speaker at the MMM-3 (International Meeting on Mangrove Ecology, Functioning and Management) from 2-6 July 2012 at Galle, Sri Lanka.
- Invited Speaker and Chairperson of the Scientific Session on Section 5 (Embryology and Reproductive Biology of Plants) at the II(X) International Botanical Conference of Young Scientists sponsored by Russian Academy of Sciences and Russian Botanical Society at the Komarov Botanical Institute of Russian Academy of Sciences, St. Petersburg, Russia from 11-16th November 2012.
- Invited Speaker to deliver special lecture at the DST INSPIRE INTERNSHIP Winter Camp- 2012 organised by the Integrated Science Education & Research Centre, Visva-Bharati, Santiniketan from 10-16th December 2012.
- Invited speaker at the 6th International Legume Conference organized by the University of Johannesburg, South Africa, from 6-11 January 2013.
- Member, Advisory Committee and Chairperson of the Invited Lecture Session -I of the National Conference on "Reprographic Rights and Copyright Act : Challenges and Management" organized by Library, Documentation & Information Science Division of the Indian Statistical Institutre, Kolkata from 7-8th March 2013.
- Chairman of the Invited Lectures Session and Valedictory Session of the National Seminar on "Echoes of Silent Spring: Human Impact on Environment" organized by the Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March 2013.
- Chairperson of the Technical Session I of the National Seminar on "Recent Advances in Rice Genomics and Biotechnology" organized jointly by the Department of Biotechnology and Palli Siksha-Bhavana, Visva-Bharati, Santiniketan on 23rd March 2013.
- Chairperson of the 1st Scientific Session and Resource Person of the National Symposium on "Aerobiology for Sustainable Management of Plant, Animal and Human Health" organized by the Centre of Advanced Study in Life Sciences, Manipur University, Manipur sponsored by UGC, DBT, DST, CSIR on 25-26th March 2013.
- Member, Organising Committee of the XXVI Training Programme on Science Communication and Media Practice 2012 and 6th Science Communicators' Meet 2013 of the Indian Science News Association, Kolkata sponsored by the Department of Science & Technology, Govt. of India, New Delhi.
- Editorial Advisory Board and Review Member of the Journals: (a) Science and Culture, (b) Journal of Current Sciences, (c) Indian Journal of Environment & Ecoplanning, (d) International Journal Mendel, (e) Indian Journal of Landscape Systems and Ecological Studies, (f) Everyman's Science, (g) Nucleus, (h) Bangladesh Journal of Botany and (i) Brazilian Journal of Microbiology.
- External Member, Board of Studies in Botany of the North Eastern Hill University, University of Burdwan and Gour Banga.
- Moderator and External Examiner for Ph.D., M.Phil. and M.Sc. of the Universities like Assam, Burdwan, Kalyani, Calcutta, Gauhati, North Bengal, North Eastern Hill University, Sambalpur, Utkal, North Orissa and Vidyasagar.

Sukanta Kumar Sen

- Fellow of National Environmentalists Association

Samit Ray

Nil

Kashinath Bhattacharya

- Elected the President of Indian Aerobiological Society for 2012-14

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- Member, INDSUBIO (Indian Sub-Continent Biomization) Project under the auspices of Bristol Research Initiative of the Dynamic Global Environment (BRIDGE) headed by Prof. Sandy Harrison
- Member, GEO Task US09-01a: Earth Observation Priorities for Human Health: Aeroallergens SBA. Group Leader : Hillel KOREN, University of North Carolina, USA
- Member of Editorial Board: Indian Journal of Aerobiology
- Reviewer of the following journals: Quaternary Research, Springer; Aerobiologia, Springer; Grana, Taylor & Francis; Indoor & Built Environment, Karger; Current Science, India: Science & Culture, India.

Nirmalya Banerjee

Nil

Rup Kumar Kar

- Member of the Editorial Board of journals (a) World Journal of Agricultural Science (IDOSI) (b) Journal of Theoretical and Experimental Biology (Elius Academic Publishers).
- Reviewer of International Journals (Protoplasma, Plant Growth Regulation, Journal of Agricultural Science and Technology, Journal of Agronomy and Crop Science)
- External Expert Member of Board of Undergraduate Studies, University of Burdwan
- External Expert Member of Board of Postgraduate Studies, Gour Banga University
- External Expert Member of Board of Postgraduate Studies, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh.

Narayan Chandra Mandal

- Member, Selection Committee of several Boards of Visva-Bharati
- Member, Academic Council, Visva-Bharati
- Member, Research Board, Visva-Bharati
- Member, Grievance addressal cell, Visva-Bharati
- Member (Upacharya's Nominee), Siksha-Bhavana Admission Committee
- External Expert Member of Selection Committee of North Bengal University and Kalyani University.
- Evaluation of Govt. funded projects of CSIR (GoI), and DST (GoWB)
- Reviewing of research papers of several journals such as 3-Biotech, African Journals, Process Biochemistry, IJBB,
- Adjudication of Ph.D. theses of BHU, NBU, Gauhati, Tezpur, and Jadavpur Universities
- External Member, M.Tech. Programme of NIT, Durgapur
- Acted as Resource person in Refreshers Courses in Jadavpur University
- Expert Member, Commission of Scientific and Technical Terminology, GoI, for preparing Botany Glossory in Hindi and other regional languages
- Chaired a session in National Conference on Rice Genomics, organised by Department of Biotechnology and Palli Siksha Bhavana, Visva-Bharati, March, 23rd to 24th, 2013.

Subrata Mondal

- Chairperson and Evaluator of a Session in the 17th National Conference on Indian Aerobiological Society, Pune, during 13th-15th December, 2012.

Swadesh Ranjan Biswas

Nil

Chowdhury Habibur Rahaman

Life Member -The Indian Science Congress Association, 14, Dr. Biresh Guha Street, Kolkata

Soma Sukul nee Chunari

Nil

Adani Lokho

Nil

Jnanendra Rath

Awarded Raman Post Doctoral Fellowship to visit USA for one year by UGC, New Delhi.

Hema Gupta (Joshi)

Nil

Bomba Dam

- Received the Max Planck Postdoctoral Research fellowship for short term research stay at the Max Planck Institute for Terrestrial Microbiology, Marburg, Germany (01st May to 13th June 2012)
- Received the Max Planck Postdoctoral Research fellowship for short term research stay at the Max Planck Institute for Terrestrial Microbiology, Marburg, Germany (21st October to 11th November 2012)

Surendra Kumar Gond

Awarded Raman Post Doctoral Fellowship to visit USA for one year by UGC, New Delhi.

Satish Kumar Verma

Nil

(b) Scholars

Trina Chakraborty

- Awarded the P.H. Gregory Golden medal for her research work in the 17th National conference of Indian Aerobiological Society on Impact of airborne Microbes held at MAEER's Arts, Commerce & Science College, Pune, Maharashtra from December 13-15th, 2012.

Sipra Roy

- Awarded Third Prize in oral paper presentation in the 17th National conference of Indian Aerobiological Society on Impact of airborne Microbes held at MAEER's Arts, Commerce & Science College, Pune, Maharashtra from December 13-15th, 2012.

Alokesh Das

- Received the Rajib Gandhi Fellowship of UGC, Govt. of india.

Shailen Bhakat

- Received the Rajib Gandhi Fellowship of UGC, Govt. of india.

(c) Department as a whole

Nil

Publications within the year April 2012- March 2013:

Sudhendu mandal

- Mandal, S. (2012). Biodiversity of pollen, pollinators and Conservation. Proc. International Botanical Conference of Young Scientists, (Pub. by Russian Botanical Society & Russian Academy of Sciences, St. Petersburg, Russia, pp. 13-14.
- Mandal, S. (2012). Eco-floristic survey of Mangrove population of Sundarbans, West Bengal, India with reference to their management for rural development. Proc. International Meeting on Mangrove Ecology, Functioning and Management (MMM-3), Galle, Sri Lanka, p. 32.

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- Mandal, S. (2012). Tagore and Library. Proc. Nat. Seminar on Rabindranath O Granthagar, Pub. Kalyani Univ., Kalyani, pp.7-12.
- Mandal, S. (2013). Library, Tagore and Copyright. Proc. Nat. Conference on Reprographic Rights & Copyright Act, Indian Statistical Institute, Kolkata, pp.4-7.
- Mandal, S. (2013). Diversity of Pollen, Pollination and Biotechnology. Proc. Nat. Symp. On Aerobiology for Plant, Animal & Human Health. (Eds. N.I. Singh & M.S. Singh), Manipur Univ. Publ., Imphal, pp.27-29.
- Bhattacharya, A. and Mandal, S. (2012). Pollination biology of ten medicinally important angiosperms of West Bengal (India). Appl. Biol. Res., 14(1): 86-94.
- Biswas, K., Mondal, S. and Mandal, S. (2012). Floral biology and pollen dispersal of *Croton bonplandianum* Baill. In Multidisciplinary Approaches in Angiosperm Systematics (Eds. G. Maiti and S.K. Mukherjee), Publ. by University of Kalyani, Kalyani, Vol. 2:756-761.
- Biswas, K., Mondal, S. and Mandal, S. (2012). Studies on in vitro pollen germination of *Crotalaria sericea* Retzius. In Diversity and Conservation of Plants and Traditional Knowledge (Eds. S. Panda and C. Ghosh), Bishen Singh Mahendra Pal Singh Publ., Dehradun, pp.237-240.
- Choudhury, S., Mondal, S. and Mandal, S. (2011). Stigma receptivity of *Rauvolfia serpentina* (Linn.) Benth. Ex Kurz. with reference to esterase and peroxidase activity. Jour. Palynol., 47: 35-39.
- Choudhury, S., Mondal, S. and Mandal, S. (2012). Studies on in vitro pollen germination of *Rauvolfia serpentina* (L.) Benth. Ex Kurz. In Biology of Plants and Microbes (Eds. D. Bose and S. Roy), Levant Books Publ., Kolkata, pp.156-161.
- Choudhury, S., Mondal, S. and Mandal, S. (2012). Studies on esterase and peroxidase activity of *Carissa carandas* Linn. in relation to stigma receptivity. Int. Jour. Curr. Res., 4(9): 61-62.
- Choudhury, S., Mondal, S. and Mandal, S. (2013). Studies on in vitro pollen germination of *Carissa carandas* Linn. Sci. & Cult., 79(1-2): 128-130.
- Ghosh, A., Rahaman, C.H. and Mandal, S. (2012). A contribution to the ethnobotanical uses of plants for ethnomedicine and magico religious belief by the tribals of Birbhum district, West Bengal. In Multidisciplinary Approaches in Angiosperm Systematics (Eds. G. Maiti and S.K. Mukherjee), Publ. by University of Kalyani, Kalyani, Vol. 2: 675-682.
- Choudhury, S., Rahaman, C.H. and Mandal, S. (2012). Pharmacognostic studies of *Coccinia grandis* (L.) Voigt - an important ethnomedicinal plant. In Multidisciplinary Approaches in Angiosperm Systematics (Eds. G. Maiti and S.K. Mukherjee), Publ. by University of Kalyani, Kalyani, Vol. 2: 637-647.
- Maithy Roy, A., Banerjee, N. and Mandal, S. (2013). SEM studies of seed coat structure in mutants of *Catharanthus roseus* (L.) G.Don. Int. Jour. Curr. Res., 5(2): 95-98.
- Choudhury, S., Rahaman, C.H. and Mandal, S. (2013). Pharmacognostic studies of *Ampelocissus latifolia* (Roxb.) Planch. - an important ethnomedicinal plant. Int. Jour. Curr. Res., 5(3): 643-648.

Sukanta Kumar Sen

- Sadhu, S., Saha P., Sen, S K , Mayilraj, S and Maiti T K., 2013. Production, purification and characterization of a novel thermotolerant endoglucanase (CMCase) from *Bacillus* strain isolated from cow dung. Springer plus, 2-10. [www.springerplus.com/content2/1/10].
- Pan, I and Sen S K 2013. Microbial and physico chemical analysis of composting process of wheat straw. Indian Journal of Biotechnology, 12: 120-128

Samit Ray

- Bhattacharya, S., Rath, J., Ojha, S. N. and Ray, S. 2012. Soil-crust cyanobacteria from alluvial zone of district Birbhum, West Bengal: relating species distribution with soil parameters, Phytomorphology, 62 (1&2): 13-23.

Kashinath Bhattacharya

- Hussain MM, Chakraborty P and Bhattacharya K. 2012. Pollen grains of queen sago (*Cycas circinalis* L.), a source

of aeroallergen from West Bengal, India: an immunochemical approach. *Aerobiologia*. 28: 39-47. (DOI 10.1007/s10453-011-9209-z. Springer Science + Business Media B.V).

- Hussain MM, Mandal J and Bhattacharya K. 2013. Airborne load of Cassia pollen in West Bengal. Eastern India: its atmospheric variation and health impact. *Environmental monitoring and assessment*. Vol. 185: 2735-2744. (DOI 10.1007/s10661-012-2744-4. Springer Science + Business Media B.V).

Nirmalya Banerjee

- Banerjee. P., Maity. S., Banerjee. N. (2012) High frequency somatic embryogenesis and plantlet regeneration of *Bauhinia variegata*, a multipurpose tree legume. *Indian Journal of Fundamental and Applied Life Sciences* 2 (2): 87-95.
- Maithy Roy, A., Banerjee, N., Mandal, S. (2013) SEM studies of Seed Coat Structures in Mutants of *Catharanthus roseus*(L.) *International Journal of Current Research* 5(2): 95-98.

Rup Kumar Kar

- Karmakar, J., R. Roychowdhury, R.K. Kar, D. Deb and N. Dey. 2012. Profiling of selected indigenous rice (*Oryza sativa* L.) landraces of West Bengal in relation to osmotic stress tolerance. *Physiology & Molecular Biology of Plants*. DOI 10.1007/s12298-012-0110-1.
- Chaudhuri, A. and R.K. Kar. 2012. Involvement of reactive oxygen species and oxidative metabolism in regulation of seed germination in *Vigna radiata*. *Indian Journal of Plant Physiology*, 17: 286-291.
- Chaudhuri, A., K.L. Singh and R.K. Kar. 2013. Interaction of hormones with reactive oxygen species in regulating seed germination of *Vigna radiata* (L.) Wilczek. *Journal of Plant Biochemistry & Physiology*, 1: 103 (doi:10.4172/jpbp.1000103).

Narayan Chandra Mandal

- Dutta, S., Ghosh, S. Datta, J. and Mandal, N.C. (2012), Qualitative and quantitative estimation of phosphate solubilisation by Rhizobacteria. *International Journal of Pollution Abatement Technology*, 1(2): 46-49.
- Dutta, S., Datta, J. and Mandal, N.C. (2012), 2,4-Dichlorophenoxy acetic acid: a review. *Journal of Phytological Research* 25: (In press).
- Mandal, V., Sen, S.K. and Mandal, N.C. (2013), Production and partial characterisation of an inducer-dependent novel antifungal compound(s) by *Pediococcus acidilactici* LAB 5. *J. Sci. Food Agric.* (Wiley online library.com) DOI 10.1002/jsfa.6055.
- Ghosh, R. and Mandal, N.C. (2012), Yeast as a cell factory. In *Biology of Plants and Microbes* (ISBN-978-93-80663-63-0) pp. 188-200. eds. Bose D and Roy S., Levant Books Publishers, Kolkata.
- Mandal, N.C. (2012), Development of antifungal agents for controlling fungal infections in human. In *Biology of Plants and Microbes* (ISBN-978-93-80663-63-0) pp. 48-53. eds. Bose D and Roy S., Levant Books Publishers, Kolkata.
- Debnath, M., Mandal, N.C. and Ray, S. (2012). Effect of fungicides and insecticides on growth and enzyme activity of four cyanobacteria. *Indian J. Microbiol.* 52: 275-280

Subrata Mondal

- Biswas, P. and Mondal, S. (2012). Ethnobotanical investigation of wild edible plants of Arambagh sub-division of Hooghly district, West Bengal, India. *Life sciences Leaflets*. 8:54-61.
- Mondal, S. and Ghanta, R. (2012). Effect of Sucrose and Boric acid on In Vitro Pollen germination of *Solanum macranthum* Dunal. *Indian Journal of Fundamental and Applied Life Sciences*. 2 (2): 202-206.
- Biswas, K., Mondal, S. and Mandal, S. (2012). Floral Biology And Pollen Dispersal of *Croton bonplandianum* Baill. In *Multidiplinary Approaches in Angiosperm Systematics* (Eds.: Maiti. and Mukherjee.). University of Kalyani. Kalyani. India. 2: 756-761.
- Mondal, S. and Ghanta, R. (2012). Studies on In Vitro Pollen germination of *Lawsonia inermis* Linn. *Advances in BioResearch*. 3 (3): 63-66.

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- Mondal, S. and Ghanta, R. (2012). Studies on in vitro pollen germination of *Helecteres isora* Linn. *Indian Journal Plant Sciences*. 1 (1): 36-39.
- Biswas, K., Mondal, S. and Mandal, S. (2012). Studies on In Vitro Pollen germination of *Crotalaria sericea* Retzius. *Diversity and Conservation of plants and Traditional Knowledge* (Eds. Panda and Ghosh). Bishen Singh and Mahendra Pal Singh, Deradun. India. 237-240.
- Choudhury, S., Mondal, S. and Mandal, S. (2012). Studies on esterase and peroxidase activity of *Carissa carandas* Linn. in relation to Stigma receptivity. *International Journal of Current Research*. 4 (9): 61-62.
- Choudhury, S., Mondal, S. and Mandal, S. (2012). "Studies on In Vitro Pollen germination of *Rauvolfia serpentina* (L.) Berth.ex.Murz." In- 'Biology of Plants and Microbs' (eds. Bose and Roy). Sarat Impression Pvt Ltd, Kolkata-73. 156-161.
- Choudhury, S., Mondal, S. and Mandal, S. (2013). Studies on In Vitro Pollen germination of *Carissa carandas* Linn. *Sci. & Cult*. 79 (1-2): 128-130.
- Ghanta, R. and Mondal, S. In Vitro studies on pollen germination of *Abroma augusta* Jacq. *Advances in Pollen-Spore research*. (Accepted).
- Ghanta, R. and Mondal, S. Effect of some nutrients on In Vitro pollen germination of *Crescentia cujete* L. *Indian Journal of Bio-protocols*. (Accepted)

Swadesh Ranjan Biswas

- Bidhan Chandra Mukhopadhyay, Suranjita Mitra, S R Biswas. (2012). Abolition of nisin production in *Lactococcus lactis* W8 by plasmid expression of mutant NisK. *J. Bot. Soc. Beng*. 66 (2).
- S. Nayak and S R Biswas (2012). Identification of a thermostable DNA polymerase gene in *Geobacillus* WBI. *J. Bot. Soc. Beng*, 66 (2).
- S R Biswas. (2012). Restoration of nisin production in *Lactococcus lactis* W8 from bile inhibition with milk or tween 80. *Ind. Med. J*. 106 (10). 458-460.
- Production of low alcohol containing beverage by fermentation of white grape juice with *Hanseniapora guilliermondii* G4 isolated from Handia. (2012). *Ind. Med. J*. 106 (11). 500-503.

Chowdhury Habibur Rahaman

- Rahaman, C.H. (2012). Ethnomedicinal plant resources of Birbhum district, West Bengal- A treasure trove for bioprospecting. In Bose, D. & Roy, S.(eds.) *Biology of Plants and Microbes*, Levant Books, Kolkata. p. 211-233.
- Choudhury, S., Rahaman, C.H. and Mandal, S. (2012). Pharmacognostic studies of *Coccinia grandis* (L.) Voigt. - An important ethnomedicinal plant. In Maiti, G.G. & Mukherjee, S.K. (eds.) *Multidisciplinary approaches in Angiosperm Systematics*, University of Kalyani, Kalyani, West Bengal. p. 637- 647.
- Ghosh, A. Rahaman, C.H. and Mandal, S. (2012). A contribution to the ethnobotanical uses of plants for ethnomedicine and magico-religious belief by the tribals of Birbhum district, West Bengal. In Maiti, G.G. & Mukherjee, S.K. (eds.) *Multidisciplinary approaches in Angiosperm Systematics*, University of Kalyani, Kalyani, West Bengal. p. 675- 682.
- Rahaman, C.H. and Das, U. (2012). Traditional herbal remedies for gastro-intestinal problems practiced among the tribal and other communities of Birbhum district, West Bengal, India. *Biospectra*. 7(2):133-142.
- Mondal, Swarnendu and Rahaman, C.H. (2012). Medicinal plants used by the tribals of Birbhum District, West Bengal and Dumka district, Jharkhand, India. *Indian J. Traditional Knowledge*. 11(4): 674-679.
- Rahaman, C.H. & Mondal, Swarnendu (2012). A new variety of *Jatropha nana* Dalzell & A. Gibson (Euphorbiaceae) from West Bengal, India. *Indian J. of Forestry*. 35 (4): 477-480.
- Choudhury, S., Rahaman, C.H. & Mandal, S. (2013). Pharmacognostic studies of *Ampelocissus latifolia* (Roxb.) Planch - An important ethnomedicinal plant. *International J. of Current Research*. 5(3): 643-648.

Soma Sukul nee Chunari

- Sandhimita Mondal, S. Sukul and N. C. Sukul, 2012. Transfer of effect of heat shock and drug treatment from one plant to another through water. *J Altern Med Res*; 4 (2).
- Subhajit Mondal, S Sukul nee Chunari and Mrinmoy Ghosh, 2012. Phytochemicals analysis and screening for active compounds in *lycopodium cernuum*. *Indian Fern Journal*, Vol. 29.

Adani Lokho

- Lokho, A. 2012. The Folk Medicinal Plants of the Mao Naga in Manipur North East India. *Intl. Jl. Sci. Res. Publ.* 2(6): 1-8.
- Lokho, A. & Kumar, Y. 2012. Reproductive Phenology and Morphological Analysis of Indian *Dendrobium Sw.* (Orchidaceae) from the Northeast Region. *Intl. Jl. Sci. Res. Publ.* 2(9): 1-14.

Jnanendra Rath

- Mandal S and Rath J (2012). Algal colonization and its ecophysiology on the fine sculptures of terracotta monuments of Bishnupur, West Bengal, India. *International Biodeterioration and Biodegradation* <http://dx.doi.org/10.1016/j.ibiod.2012.05.034> (Impact factor 2.074).
- Bhattacharya S, Rath J, Ojha SN and Ray S (2012) Soil-crust Cyanobacteria from Alluvial Zone of district Birbhum, West Bengal: Relating species distribution with soil parameters. *Phytomorphology* 62: 13-23.
- GENBANK ACCESSION NUMBER: JX129163, JX513959, JX513958, JX421696

Hema Gupta (Joshi)

- Gupta (Joshi), H. 2012. Vegetation structure, floristic composition and soil nutrient status in three sites of tropical dry deciduous forest of West Bengal, India. *Indian Journal of Fundamental and Applied Life Sciences* 2(2): 355-364.
- Gupta Joshi, H. & M. Ghose. 2012. Vegetation structure and species diversity of mangroves in Lothian Island, Sundarbans, India. Accepted for publication in *Journal of Advances in Pollen-Spore Research* 2013 issue.
- Gupta Joshi, H. & M. Ghose. Community structure, species diversity and aboveground biomass of the Sundarbans mangrove swamps. Accepted for publication in *Tropical Ecology*, volume 55(3), 2014.

Bomba Dam

- Dam B, Dam S, Kube M, Reinhardt R, Liesack W. (2012) Complete genome sequence of *Methylocystis* sp. strain SC2, an aerobic methanotroph with high-affinity methane oxidation potential. *J Bacteriology*. 194(21): 6008-6009 (Impact factor: 3.726).
- Nauer PA, Dam B, Liesack W, Zeyer J, Schroth MH. (2012) Activity and diversity of methane-oxidizing bacteria in glacier forefields on siliceous and calcareous bedrock. *Biogeosciences*. 9: 2259-2274. (Impact factor: 3.859).
- Dam B, Dam S, Kube M, Reinhardt R, Liesack W. (2012) Complete sequence analysis of two methanotroph-specific repABC containing plasmids from *Methylocystis* sp. strain SC2. *Applied and Environmental Microbiology*. 78 (12): 4373-4379. (Impact factor: 3.778).

Surendra Kumar Gond

- Mishra A, Gond SK, Kumar A, Sharma VK, Verma SK, Kharwar RN, Sieber TN. Season and tissue type affect fungal endophyte communities of the Indian medicinal plant *Tinospora cordifolia* more strongly than geographic location. *Microbial Ecology* 2012 Aug; 64(2):388-98.

Satish Kumar Verma

- Ashish Mishra, Surendra K. Gond, Kumar A, Vijay K. Sharma, Satish K. Verma and Ravindra N. Kharwar, Anuj Kumar and T. N. Seiber (2012) Season and tissue type affect fungal endophyte communities of the Indian medicinal plant *Tinospora cordifolia* more strongly than geographic location. *Microbial Ecology* DOI 10.1007/s00248-012-0029-7 (Impact factor 2.8)

Ch-II

- Ambika Srivastava, Pooja Singh, Rajesh Kumar, Satish Kumar Verma and Ravindra Nath Kharwar (2012) Indole-based polymer and its silver nanocomposite as advanced antibacterial agents: synthetic path, kinetics of polymerization and applications. Polymer international DOI 10.1002/pi.4283. (Impact factor 2.05)

Designing New Course/Curriculum or any other teaching innovations introduced by the Department:

From 2011-2012 sessions M. Sc. course in Botany has been brought under CBCS Semester system following the guideline of UGC and the syllabi of the whole curriculum restructured newly (under four semesters) keeping in view of the recent advancements of knowledge in the subject. Also credit point system has been adopted for evaluation.

A brief history on the development of the Vibhaga concerned with an indication of the future plans for development:

Department of Botany, Visva-Bharati has started undergraduate course in Botany in 1965 and postgraduate course in Botany in 1969. Later, School of Life-Science developed along with Zoology Department and curriculum has been modified accordingly. In view of current thrust on biotechnological approach in all spheres, a postgraduate course in Biotechnology has also been introduced in 1997 under the School of Life Science involving both the Department of Botany and Zoology and other science departments. In future Department is planning to develop further the research activities and introduce new courses in the demanding areas of modern science. Teachers of the Department are taking all measures to upgrade the syllabus and include modern techniques in their practical classes.

Any other relevant information, which in opinion of the Head of the Department is worth-reporting, should be included:

Nil

Particulars in details of the Departmental Library:

(a) Area (sq. meters) quoted for the library	-	150 sq. ft.
(b) Separate provision for reading room	-	No
(c) Total no. of books	-	1600 (approx.)
(d) Total no. of books purchased during the year	-	80
(e) Total no. of periodicals	-	5
(f) Periodicals purchased during the year	-	-

DEPARTMENT OF STATISTICS

The department was established in the year 1999 with only under graduate studies. Post graduate studies started in the year 2003. Currently, it offers B.Sc. (Hons.), M.Sc. and Ph.D. degree in Statistics.

Name of the students qualified in UGC/CSIR NET/SLET None

Departmental Seminar : Nil

Conference/Seminar/Workshop/Exhibition etc.

Kashinath Chatterjee

1. Delivered a Colloquium talk at the Department of Statistics, Beijing Jiaotong University, China on June 8, 2012. The topic of my talk was Use of Search Designs for Model Selections.
2. Delivered an invited talk at the Session on Design and Analysis of Experiments at the International Conference on Advances in Interdisciplinary Statistics and Combinatorics (AISC 2012) held at the University of North Carolina, Greensboro during October 5-7, 2012.
3. Participated and presented a paper at the International Conference on Design and Analysis of Experiments, Organized by the Department of Statistics, University of Georgia at Athens, Georgia during October 17-20.
4. Delivered a talk on Design of Experiments at the Probability and Statistics Seminar held at Georgia Southern University, Statesboro, GA, on October 26, 2012.
5. Delivered an invited talk at the R C Bose Memorial Special Session on the topic Designs for Model Selection at the Eighth International Triennial Calcutta Symposium on Probability & Statistics held during December 27-30, 2012, Organized by Department of Statistics, University of Calcutta & Calcutta Statistical Association.
6. Chaired a Technical Session on Combinatorics and Design of Experiments at the Eighth International Triennial Calcutta Symposium on Probability & Statistics held during December 27-30, 2012, Organized by Department of Statistics, University of Calcutta & Calcutta Statistical Association.
7. Participated as a member of the Advisory Committee, the two-day National Seminar on "Application of Statistics & Statistical Computing" during January 30 - 31st, 2013

Sudhansu S. Maiti

1. Delivered an invited lecture entitled "Role of Generalized Process Capability Indices in Quality Management" in Satyasai Engineering College, Balasore, Odisha on September 26, 2012.
2. Attended and presented a paper entitled "Generalized Process Capability Indices" in International Conference on Mathematical Sciences for Advancement of Science and Technology held on December 21-23, 2012 at IMBIC, Kolkata, India.
3. Attended and presented a paper entitled "On Generalized Quality Capability Index" in Eighth International Triennial Calcutta Symposium on Probability and Statistics held on December 27-30, 2012 at Department of Statistics, Calcutta University, Kolkata, India.
4. Attended and presented a paper entitled "Estimation of Generalized Process Capability Indices: a comparative study" in International Conference on Recent Advances in Mathematical Statistics and Its Applications in Applied Sciences held on December 31, 2012, January 1-2, 2013 at Department of Statistics, Gauhati University, India.
5. Attended and presented a paper entitled "On Dynamic $P(X < Y)$ " in International Conference on Statistics, Science and Society: New Challenges and Opportunities held on January 2-5, 2013 at Chennai, India.

Tirthankar Ghosh

1. Participated in UGC sponsored Refresher Course in Statistics at ASC, University of Calcutta during 02.07.2012 to 21.07.2012.
2. Attended and presented a paper entitled 'Application of Reverse Hazard Rate in Reliability Approximation', in The 6th

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International Conference of IMBIC on "Mathematical Sciences for Advancement of Science and Technology" during December 21-23, 2012 held at Cochin University of Science and Technology, Kerala, India.

3. Participated and presented a paper entitled "A Comparative Study of Discretizing Methods for Approximating System Reliabilities" during December 24-25, 2012, in the Young Statisticians Meet-An International Conference organized by Department of Statistics, The University of Burdwan.

Saran Ishika Maiti

Attended and presented a paper entitled "An introspection of equi-covariable composite class" in Eighth International Triennial Calcutta Symposium on Probability and Statistics held on December 27-30, 2012 at Department of Statistics, Calcutta University, Kolkata, India.

Soumalya Mukhopadhyay

Attended and presented a paper entitled "Growth data with measurement and reading errors propagating through Time" in India Biodiversity Meet (March 14-16, 2013) organized by Agricultural and Ecological Research Unit, ISI Kolkata, In Collaboration with Biomathematical Society of India.

Editorial Service

Kashinath Chatterjee

- Served as reviewer to journals like: Statistics and Probability Letters, Journal of Statistical Planning and Inference, Communications in Statistics: Theory and Methods, Metrika.
- Serving as an Associate Editor of the "Journal of the Indian Society of Agricultural Statistics".

Sudhansu S. Maiti

- Reviewer for the journals-(a) Applied Mathematical Modeling, (b) Journal of Indian Statistical Association, (c) Journal of Statistical Theory and Practice.

Saran Ishika Maiti

- Reviewer in Indian Journal of Psychometry and Education, Journal of Applied Statistics.

Other Academic Distinctions

Kashinath Chatterjee

International:

- i. Visited Department of Statistics, Central China Normal University, Wuhan, China as visiting scientist from May 17, 2012 to May 26, 2012
- ii. Delivered lectures to the Ph.D. students of the Department of Statistics, Central China Normal University, Wuhan, China on Design of Experiments.
- iii. Visited Department of Statistics, Shanghai Normal University Shanghai, China from May 26, 2012 to June 5, 2012.
- iv. Visited Department of Statistics, Beijing Jiaotong University, China from June 5, 2012 to June 11, 2012.
- v. Visited Department of Statistics, University of Georgia, Athens, Georgia, from October 10, 2012 to October 25, 2012.
- vi. Visited Statistics and Mathematics Unit, Indian Statistical Institute, Delhi Centre for Collaborative research during March 5, 2013 - March 12, 2013.

Sudhansu S. Maiti

- i. Elected Member, Council of Directors, Calcutta Statistical Association, Kolkata for 2013.
- ii. University Nodal Officer, All India Survey on Higher Education conducted by MHRD.
- iii. Reviewer for the journals-(a) Applied Mathematical Modeling, (b) Journal of Indian Statistical Association, (c) Journal of Statistical Theory and Practice.
- iv. Chairman, Visva-Bharati Admission Coordination Cell.
- v. External Member, Board of Studies in Statistics (UG), University of Gour Banga.

Publications :

Kashinath Chatterjee

- Chatterjee, K., Li, Z. and Qin, H. (2012). Some new lower bounds to centered and wrap-around L2-discrepancy. *Statistics and Probability Letters*, 82, 1367-1373.
- Chatterjee, K. Koukouvinos, C, Mantas P. and Skountzou, A. (2012). A general construction of $E(f_{\{NOD\}})$ -optimal multi-level supersaturated designs. *Journal of Statistical Planning and Inference*, 142, 1092-1107.
- Gupta, V. K., Chatterjee, K., Das, A. and Kole, B. (2012). Addition of runs to an s-level supersaturated design. *Journal of Statistical Planning and Inference*. 142, 2402-2408.
- Chatterjee, K., Qin, H. and Zou, N. (2012). Lee discrepancy on asymmetrical factorials with two- and three-levels. *Science China Mathematics*, 55, 3, 663-670.

Sudhansu S. Maiti

- i. Maiti, S. S. and Dey, M. (2012): Tilted Normal Distribution and Its Survival Properties, *Journal of Data Science*, 2012, 225-240.
- ii. Maiti, S. S. and Saha, M. (2012): Generalized Process Capability Indices, *Proceedings of IMBIC, Kolkata*, Vol 1, 1-18.
- ii. Maiti, S. S. and Murmu, S. (2013): Inference on Reliability with Geometric Lifetime, *Advances in Statistics and Optimization* (Eds. A. H. Khan & R. Khan), R. J. Enterprises, New Delhi, India, 194-208.

Research Scholar

Sudhir Murmu

- Maiti, S. S. and Murmu, S. (2013): Inference on Reliability with Geometric Lifetime, *Advances in Statistics and Optimization* (Eds. A. H. Khan & R. Khan), R. J. Enterprises, New Delhi, India, 194-208.

DEPARTMENT COMPUTER AND SYSTEM SCIENCES

Name of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations.

Sudarshan Ray

Departmental Seminars (Speakers, Title of the Seminar, Date):

Speaker: Prof. Bimal Roy, Title: Cryptology - Different Aspects and Applications, Date: August 25, 2012.

Speaker: Prof. Aditya Bagchi, Title: Dissociation based Association Rule Mining, Date: November 10, 2012.

National and International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research scholars in details.

Paramartha Dutta

1. Attended International Conference on Computational Intelligence and Communication Networks (CICN 2012) held at Mathura, India, during November 03-05, 2012.

Utpal Roy

1. 10th IAPR Workshop in Document Analysis System 2012 (DAS 2012), held during March 27th -29th , 2012, Gold Coast, Queensland, Australia.
2. 8th Conference on Computer Vision, Graphics and Image Processing 2008 (ICVGIP 2012) held at IIT Bombay during 16-19 Dec. 2012.
3. The First International Conference on Intelligence Infrastructure CSI 2012, 47th Annual National Convention Computer Society of India 1-2 December, 2012.

Ongoing Research Projects in the Department:

(i) Name of the Teacher: Prof. Paramartha Dutta

(ii) Name of the Project: "Development of an Intelligent Recognizer of Component Analysis of Manhole Gas Mixture"

(iii) Sponsoring Agencies: DST funded

(iv) Amount Sanctioned: Rs. 33.00 lakhs (approx.)

Academic distinctions gained by Teachers/ Scholars or the Department as a whole (Like recognition as D.S.A. or C.A.S. etc.)

Balaram Bhattacharyya

- ❖ Honoured with nomination as member of Program Committee in the 4th International Conference on Information Technology in Bio- and Medical Informatics - ITBAM 2012, Vienna, Austria, September 4-5, 2012.
- ❖ Member of Board of Studies in Computer Science of Benaras Hindu University, Varanasi.

Paramartha Dutta

- ❖ Undertook teaching assignment as a Guest Faculty in Department of Computer Science and Engineering and Department of Information Technology, Tripura University.
- ❖ Reviewer of various Journals including -
 1. IEEE Transactions on System, Man and Cybernetics
 2. IEEE Transactions on Evolutionary Computation
 3. Pattern Recognition
 4. Signal Processing
 5. IEEE Communication Letters
- ❖ Member of Board of Undergraduate Studies in Computer Science of Kalyani University.
- ❖ Member of Board of Studies in Computer Science, Information Technology and Computer Application of West Bengal University of Technology.

- ❖ Member of the School Board of Triguna Sen School of Technology of Assam University, Silchar.
- ❖ Member of Scientific Committee and Editorial Review Board on Engineering and Applied Sciences of World Academy of Science Engineering and Technology.

Utpal Roy

- ❖ Undertook teaching assignment as Guest Faculty in the Department of Computer Science and Engineering, Tripura Central University, Agartala.
- ❖ Nominated as reviewer of the Second International Conference on Computing and Systems, 2013, Department of Computer Science, University of Burdwan.
- ❖ Honoured to be the Life member of Forum of Scientists, Engineers & Technologists (FOSET).

Publications within the year April 2012 - March 2013

- (i) Text books (ii) Other books (iii) Monographs (iv) Research Papers (Author(s), title of Paper, year, Journal, Volume no., Pages) (v) Number of papers published in Peer/reviewed journal: National/International.

Balaram Bhattacharyya:

- B Mandal and B Bhattacharyya, "Biomedical Color Image Segmentation through Precise Seed Selection in Fuzzy Clustering", published in Engineering Applications of Neural Networks: Communications in Computer and Information Science (Springer), Volume 311, pp. 482-491, 2012.

Paramartha Dutta:

Conference Proceedings:

- ❖ A. Banerjee, P. Dutta and S. Ghosh, "Fuzzy-Controlled Energy-Efficient Weight-Based Two Hop Clustering for Multicast Communication in Mobile Ad Hoc Networks", in proceedings of the SEMCCO 2011, Vizag, India, Part - I, LNCS 7076, pp. 520 - 529, 2012.
- ❖ K. Mondal, P. Dutta and S. Bhattacharyya, 'Gray Image Extraction using Fuzzy Logic', in proceedings of the Second International Conference on Advanced Computing and Communication Technologies (ACCT - 2012), pp. 289 - 296, Rohtak, India, January 2012, IEEE.
- ❖ A. Pal, J. P. Singh and P. Dutta., 'The Effect of Speed Variation on Traffic Patterns in Mobile Ad Hoc Network' in proceedings of the Second International Conference on Computer, Communication, Control and Information Technology (C3IT - 2012), Academy of Technology, India, Procedia Technology, Volume 4, 2012, Pages 743 - 748, February 2012. Elsevier,
- ❖ J. P. Singh, P. Dutta and A. Pal., 'Delay Prediction in Mobile Ad Hoc Network using Artificial Neural Network' in proceedings of the Second International Conference on Computer, Communication, Control and Information Technology (C3IT - 2012), Academy of Technology, India, Procedia Technology, Volume 4, 2012, Pages 201-206, February 2012. Elsevier,
- ❖ B. Mondal, K. Dasgupta and P. Dutta., 'Load Balancing in Cloud Computing using Stochastic Hill Climbing - A Soft Computing Approach' in proceedings of the Second International Conference on Computer, Communication, Control and Information Technology (C3IT - 2012), Academy of Technology, India, Procedia Technology, Volume 4, 2012, Pages 783-789, February 2012. Elsevier,
- ❖ D. Dutta, P. Dutta and J. Sil, "Clustering by Multi Objective Genetic Algorithm", in proceedings of the IEEE International Conference on Recent Advances in Information Technology (RAIT 2012), Dhanbad, India, pp. 548-553, March 2012.
- ❖ V. K. Ojha, P. Dutta, H. Saha, and S. Ghosh, "Linear Regression Based Statistical Approach For Detecting Proportion Of Component Gases In Manhole Gas Mixture", in International Symposium on Physics and Technology of Sensors (IEEE - 2012), Pune, India, March 2012, 978-1-4673-1040-6, DOI:10.1109/ISPTS.2012.6260865.
- ❖ S. Ghosh, A. Roy, S. Singh, V. K. Ojha, P. Dutta, H. Saha, "Sensor Array for Manhole Gas Analysis". in International Symposium on Physics and Technology of Sensors (IEEE - 2012), Pune, India, March 2012, 978-1-4673-1040-6, DOI:10.1109/ISPTS.2012.6260863.

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- ❖ V. K. Ojha, P. Dutta, H. Saha, and S Ghosh, "Detection of proportion of different gas components present in manhole gas mixture using backpropagation neural network", in proceedings of Intentional Conference on Information & Network Technology (ICINT 2011), Chennai, India., IACSIT - 2012, Vol-37 pp 11-15, April 2012 ISBN 978-981-07-2068-1
- ❖ V. K. Ojha, P. Dutta, H. Saha, and S. Ghosh, "A Neuro-Swarm Technique for the Detection of Proportion of Components in Manhole Gas Mixture", in proceedings of International Conference On Modeling, Optimization And Computing (ICMOC 2012), Kanyakumari, India, Vol-2, pp. 1211-1218, April 2012.
- ❖ V. K. Ojha, P. Dutta, H. Saha, and S. Ghosh., "Application of Real Valued Neuro Genetic Algorithm in Detection of Components Present in Manhole Gas Mixture", in proceedings of the Second International Conference On Computer Science, Engineering And Application (Springer 2012), Delhi, India, Vol-1, pp.333-340, May 2012. ISSN 1867-5662
- ❖ D. Dutta, P. Dutta and J. Sil, "Clustering Data Set with Categorical Feature Using Multi Objective Genetic Algorithm", in proceedings of the IEEE International Conference on Data Science and Engineering (ICDSE 2012), Cochin India, pp. 103-108, July 2012.
- ❖ V. K. Ojha, P. Dutta, H. Saha, and S. Ghosh, "A Novel Neuro Simulated Annealing Algorithm for Detecting Proportion of Component Gases in Manhole Gas Mixture", in Proceedings of International Conference On Advances In Computing And Communications (ICACC 2012) IEEE, pp. 238-241, August 2012. DOI 10.1109/ICACC.2012.54.

Journals:

- ❖ J. P. Singh and P. Dutta, 'The Temporal Effect of Mobility on Path Length in MANET', International Journal of Wireless Information Networks, vol. 19, No. 1, pp. 38 - 48, 2012.
- ❖ A. Banerjee and P. Dutta, "Fuzzy controlled multi-hop adaptive clustering (FMAC) mobile ad hoc networks", Scientific Research and Essays, vol. 7, No. 2, pp. 114 - 127, 2012.
- ❖ S. Dasgupta and P. Dutta, "An Energy Efficient Genetic Approach for Clustering of Wireless Sensor Network", International Journal of Information Engineering vol. 2, Issue. 2, pp. 54 - 58, 2012.
- ❖ K. Dasgupta, J. K. Mandal, P. Dutta, "Hash Based Least Significant Bit technique for Video Steganography (HLSB)", International Journal of Security, Privacy and Trust Management (IJSPTM), ISSN 2277-5498, Academy & Industry Research Collaboration Center (AIRCC), pp 1-11, April 2012 DOI: 10.5151/ijstpm.2012.2201.
- ❖ K. Mondal, P. Dutta and S. Bhattacharyya, 'Fuzzy Logic Based Gray Image Extraction and Segmentation', International Journal of Scientific and Engineering Research, vol. 3, No. 4, pp. 1 - 14, 2012.
- ❖ S. Bhattacharyya, U. Maulik and P. Dutta, "A Parallel Bi-Directional Self Organizing Neural Network (PBDSONN) Architecture For Color Image Extraction and Segmentation", Neurocomputing, vol. 86, pp. 1 - 23, 2012.
- ❖ V. K. Ojha, P. Dutta, and H. Saha., "Performance Analysis Of Neuro Genetic Algorithm Applied On Detecting Proportion Of Components In Manhole Gas Mixture", International Journal of Artificial Intelligence & Application, vol. 3, No. 4, pp. 83-98. 2012. DOI : 10.5121/IJAIA.2012.3406
- ❖ S. Dasgupta and P. Dutta, "A Democratic Head Election Strategy for Clustering in Wireless Sensor Network", International Journal of Computer Applications (0975 - 8887) vol. 54, No.16, pp. 32 - 36, 2012.
- ❖ V. K. Ojha and P. Dutta., "Performance Analysis of Neuro Swarm Optimization Algorithm Applied on Detecting Proportion of Components in Manhole Gas Mixture", Artificial Intelligence Research, vol. 1, pp. 31 - 46, 2012. DOI: 10.5430/JNEP.V1N1PX.
- ❖ D. Mukhopadhyay and P. Dutta, "Quantum Cellular Automata Based Novel Unit Reversible Multiplexer" Advanced Science Letters, vol. 16, pp. 163-168, 2012.
- ❖ D. Mukhopadhyay and P. Dutta, "Quantum Cellular Automata Based Novel Unit 2:1 Multiplexer", International Journal of Computer Applications, vol. 43, No. 2, pp. 22-25, 2012.

Book Chapters:

- ❖ S. Bhattacharyya and P. Dutta, (eds. Md. A. Khan and A. Q. Ansari), "Fuzzy logic: concepts, system design and applications to industrial informatics", in Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions, Chapter 3, pp. 33 - 71, IGI Global, Hershey PA, USA, 2012.

- ❖ P. Dutta, P. Bhattacharya and S. Bhattacharyya, (eds. Md. A. Khan and A. Q. Ansari), "Evolutionary computing: principles and applications to portfolio optimization", in Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions, Chapter 12, pp. 271 - 295, IGI Global, Hershey PA, USA, 2012.
- ❖ B. Chakraborty, S. Bhattacharyya and P. Dutta, (eds. S. K. Pal, A. Petrosino and L. Maddalena), "An unsupervised video shot boundary detection technique using fuzzy entropy estimation of video content", in Handbook on Soft Computing for Video Surveillance, Chapter 9, pp. 237 - 253, Taylor & Francis, CRC Press, 2012.

Invited Papers:

- ❖ P. Dutta and A. Banerjee, "Fuzzy-controlled Power-aware Multicast Routing (FPMR) For Mobile Ad Hoc Networks", in Proceedings of the second International Conference on Computer, Communication, Control and Information Technology (C3IT - 2012), Procedia Technology, Volume 4, 2012, Pages 38-49, 2012.

Books:

- ❖ P. Dutta, K. Dasgupta and K. P. Banerjee, Authored Book entitled "Complete Reference for System Programming and Administration", published by Matrix Educare, Eighth Edition in December 2012
- ❖ P. Dutta, K. Dasgupta and S. Bhattacharyya, Authored Book entitled "Complete Reference for Inter Networking", published by Matrix Educare, Seventh Edition in June 2012.
- ❖ P. Dutta and A. Pal, Authored Book entitled "Complete Reference for Design and Analysis of Algorithms", (for Computer Science and Engineering) published by Matrix Educare, Seventh Edition in June 2012.
- ❖ P. Dutta and A. Pal, Authored Book entitled "Complete Reference for Advanced Computer Architecture", published by Matrix Educare, Sixth Edition in April 2012.
- ❖ V. K. Ojha and P. Dutta. Authored Book entitled "Intelligent Gas Recognition System: Analysis and Design Issues", published by Lambert Academic Publishing, Heidelberg, Germany, First Edition in August 2012, ISBN:978-3-659-18349-2.
- ❖ P. Dutta and D. DuttaMajumder Authored Book entitled "Performance Analysis of Evolutionary Algorithm published by Lambert Academic Publishing, Heidelberg, Germany, First Edition in September 2012, ISBN:978-3-659-21734-0

Utpal Roy:

- ❖ Performance Analysis of VANET Scenario in Ad-Hoc network by NCTUNS Simulators, S. Saha, U. Roy, DD Sinha; International Journal of Information and Computational Technology (IJICT), Vol 3, No.7, p575, 2013
- ❖ A Finite Mixture Model Based on Pair-Copula Construction of Multivariate Distributions and its Application to Color Image Segmentation-ICVGIP 2012, A. Roy, S K Parui and U. Roy,(The Eight Indian Conference on Vision, Graphics and Image Processing-2012, ACM Digital Library).
- ❖ "A Simple Approach to E-Content Management and Delivery in Digital Library", U. Roy, Achintya K. Mandal, A. C. Mondal, The IUP Journal of Information Technology, [ISSN 0973-2896], Vol. VIII, No. 1, March 2012, pp. 7-21.
- ❖ "An efficient Approach for E-Content Management and Delivery in Digital Library", Achintya K. Mandal, U. Roy, World Digital Libraries[ISSN No.: 0974 - 567X], Vol. 5, Issue-1, June 2012, pp. 1-10.
- ❖ Secured Geocast Routing in VANET (Vehicular Ad-Hoc Network) with two Stage Efficient Communication Protocol- B. Das and U Roy, International Journal Computer Application [973-93-80870-40-8], Vol-53, N0. 12 p34-38
- ❖ "Partial Temporal Ordering in Distributed Network" - S Saha and U Roy, International Journal Computer Application [ISSN No. 973-93-80870-40-8] Vol-53, No.12, Page 19.
- ❖ "Accident Avoidance System in VANET Using Mobile Communication" , B. Das and U Roy , International Journal of Information and Communication Technology, [ISSN 0974-2255]. Vol-2, No.-3, 2012, pp-355-358.

Designing New Course/Curriculum or any other teaching innovations introduced by the Department.

B.Sc. (Honours) and M.Sc. in Computer Science under choice based credit system.

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development.

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The department was created in 1998 under UGC XIth plan proposal. The one-year PGDCA course which commenced from 1993 was upgraded to M.C.A. course in 1999. The B.Sc. (Honour in Computer Science) course commenced from 2000, followed by the M.Sc. (in Computer Science) course in 2003.

Particulars in details of the Departmental Library

- (a) Area (in Sq. metres) quoted for the library. 13?x16? shared with server room
- (b) Is there separate provision for Reading Room? No
- (c) Total Number of books: 393
- (d) Total Number of books purchased during the year: Nil
- (e) Total Number of Periodicals: Nil
- (f) Total Number of Periodicals purchased during the year: Nil
- (g) Total Number of Readers: 86
- (h) Total Number of Books and Periodicals issued : 105
- (i) Total Number of Staff-members (category wise) Nil (One of the Faculty member takes charge)

DEPARTMENT OF ENVIRONMENTAL STUDIES

Name of the students qualified in UGC/CSIR/NET/SLET and GATE examination:

Sl. No.	Name of the Student	Qualifying examination
1	Sayed Yakub Ali	CSIR - UGC LS
2	Sk. Mahim Ali	Moulana Azad Fellowship, UGC

Departmental Seminar: The Department organized a one-day seminar entitled "National Seminar on Echoes of Silent Spring: Human Impact on Environment" on 9th March, 2013 to commemorate the 50th year publication of "Silent Spring" by Rachel Louise Carson, the book that is credited for creating the modern environmental movement.

The seminar was inaugurated at 9.30 a.m. in the Seminar Hall, Zoology Department, Visva-Bharati by Prof. Samir Bhattacharya, Professor-Emeritus on behalf of Hon'ble Upacharya, Visva-Bharati. Prof. A.K. Roy, Principal, Siksha-Bhavana presided over the function. The inauguration was followed by three invited lectures by Mr Arunendu Banerjee, author and environmental architect, Prof. Shelley Bhattacharya, Retd. Professor, Visva-Bharati and Prof. Bijaya K Behera, PDP University, Gandhinagar. About forty participants presented their papers on different aspects of environment in five technical sessions held simultaneously in the Seminar Hall, Zoology Department and in the Dept. of Environmental Studies.

Besides, the Department also organized the following seminar:

Sl.No.	Name of the Speaker	Title	Date
1	Prof. A. K. Attri	Climate Change???	25th June 2012

National and International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research scholars in detail

Shibani Chaudhury

1. Utpal Majee, G. N. Chattopadhyay, Shibani Chaudhury and B.C. Roy "Quality assessment of coal bed water for use in agricultural lands". Paper presented in the Advances in Agricultural Research towards Food Security and Environmental Sustenance, organized by Palli Siksha Bhavana, Visva-Bharati during 1-3 September 2012.
2. Debopriya Bhattacharyya and Shibani Chaudhury "Vermicomposting of Fly Ash by *Eisenia foetida* and *Lampito mauritii* : Comparison of growth, biochemical parameters and metal content in Spinach" Paper presented in the Advances in Agricultural Research towards Food Security and Environmental Sustenance, organized by Palli Siksha Bhavana, Visva-Bharati during 1-3 September 2012.
3. Utpal Majee, G.N.Chattopadhyay,B.C..Roy, Shibani Chaudhury and Shashank Shekher. "Possibility of using some amendments in mitigating the adverse effects of coal bed water on soil environment". International conference on nuclear energy, environmental and biological sciences. Bangkok, September 8-9, 2012.
4. Muthusamy Senthil Kumar, Srinivasan Balachandran, Shibani Chaudhury. "The Influence of Polyethylene glycol on callus culture of *Heliotropium indicum* for the assessment of total phenols and flavanoids content". National Seminar, JN Tata Memorial Auditorium, IIS, Bangalore, Second Indian biodiversity congress 9-11 December 2012.
5. Shibani Chaudhury, "Tagore's views on Environment". International Conference on Tagore and His Global Vision : Forging Bonds with the World, Organised by Department of History, Visva-Bharati, January 14-15, 2013.
6. Utpal Majee, G. N. Chattopadhyay, Shibani Chaudhury and B.C. Roy "Effect of coal bed water quality on soil environment" National Seminar on Ecology, Environment and Development (NASEED-2013), organized by Sambalpur University during January 25-27, 2013.

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7. Utpal Majee, G. N. Cattopadhyay and Shibani Chaudhury. "Effects of coal bed water on some soil environment attributing properties". Indian Science Congress, 2013, held at Calcutta University, Kolkata during 3-7th January 2013.
8. Debopriya Bhattacharyya and Shibani Chaudhury. -"Vermicomposted fly ash treated red & lateritic soil : A study on chemical speciation of some trace elements". Indian Science Congress, 2013, held at Calcutta University, Kolkata during 3-7th January 2013.
9. Abbhijit Chowdhury, Shibani Chaudhury and P.K.Partra. A study of soil pollution of coal mine area. National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
10. Debopriya Bhattacharyya and Shibani Chaudhury. "Speciation of heavy metals in vermicomposted flyash and its effect on some plant characters" National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
11. Syed Yakub Ali and Shibani Chaudhury. Phytoremediation of heavy metals from soil. National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013
12. Utpal Majee, G. N. Cattopadhyay, Shibani Chaudhury and B.C. Roy "Quality assessment of coal bed water for using in agriculture". National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
13. A. Shome, AK Chakraborty, AK Mathew, R. Goswami, SN Banerjee , S. Balachandran, Shibani Chaudhury. Role of some microorganisms in biogas production and their molecular detection: A review, "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
14. AK Chakraborty, A. Shome, AK Mathew, R. Goswami, SN Banerjee , S. Balachandran, Shibani Chaudhury. Utilisation of water hyacinth (*Eichhornia crassipes*) for biogas production: A brief review. "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
15. SN Banerjee, S. Balachandran, Shibani Chaudhury. Sustainable environment for future generation: a reality or myth? "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
16. Muthusamy Senthil Kumar, Srinivasan Balachandran, Shibani Chaudhury - Callus induction, biomass growth and morphology from stem explants of *Heliotropium indicum* L under the influence of plant growth regulators. Paper presented in the 100th Indian Science Congress, 3-7January 2013, Kolkata

Pratap Kumar Padhy

1. Padhy, P. K. Air pollution and food security: an Indian context. Paper presented in the Advances in Agricultural Research towards Food Security and Environmental Sustenance, organized by Palli Siksha Bhavana, Visva-Bharati during 1-3 September 2012.
2. Kumar, M. and Padhy, P. K. Assessment of impact of anthropogenic activities on the geochemical distribution of heavy metals: Application of index analysis approach and environmetrics. Paper presented in the Indian Science Congress, 2013, held at Calcutta University, Kolkata during 3-7th January 2013.
3. Padhy, P. K. Effects of stone crushers' pollution on plant morphology and biochemistry. Paper accepted for presentation in the National Seminar on Ecology, Environment and Development (NASEED-2013), organized by Sambalpur University during January 25-27, 2013.
4. Nayek, S., Porel, K., Hazra, D. and Padhy, P. K. Air pollution profile of the semi-urban Santiniketan-Bolpur-Sriniketan region, West Bengal, India. Paper presented in the National Seminar on Ecology, Environment and Development (NASEED-2013), organized by Sambalpur University during January 25-27, 2013.
5. Kumar, M., Kumar, B. and Padhy, P. K. Spatial assessment and characterization of the Subarnarekha river water through index analyses approaches and chemometrics, Paper presented in the National Seminar on Ecology, Environ-

- ment and Development (NASEED-2013), organized by Sambalpur University during January 25-27, 2013.
6. Karmakar, D. and Padhy, P. K. Assessment of water quality of Damodar River in Asansol- Raniganj industrial belt, West Bengal, Paper accepted for presentation in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 7. Manoj, K. and Padhy, P. K. Assessment of impact of anthropogenic activities on geochemical distribution of heavy metals: Application of index analyses approaches and environmetrics, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 8. Bhattacharyya, R., Manoj, K. and Padhy, P. K. A critical analysis of forest areas and human-wildlife conflicts in northern West Bengal, India, and some possible mitigation measures with respect to conflict scenarios, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 9. Rabha, R. and Padhy, P. K. Solid household fuels and their smoke constituent: A Review, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 10. Dey, S. and Padhy, P. K. Selection of plant species for plantation in polluted areas using air pollution tolerance index, Paper accepted for presentation in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 11. Nayek, S. and Padhy, P. K. Respiratory morbidity of women familiar of using biomass fuel in cooking, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 12. Ghosh, S. Manoj, K. and Padhy, P. K. Hydro-chemical characterisation of water bodies in Santiniketan-Bolpur-Sriniketan area, West Bengal through graphical and multivariate statistical techniques, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
 13. Padhy, P. K., Status of air pollution and its impact on two different forest ecosystems of Birbhum, West Bengal, Paper presented in the "National Seminar on Challenges in Agriculture, Environment and Rural Development in West Bengal Since Independence", Organized by Department of Economics and Politics, Visva-Bharati, 15 - 16th March, 2013.

Pulak Kumar Patra

1. Patra, P.K., Water and food security: Call for solutions, Paper presented in the " Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustainance" organized by Palli Siksha Bhavana, Visva-Bharati during 1-3 September 2012.
2. Patra, P.K., Participatory GIS in Rural Development: An Assessment. Paper presented in the National Seminar organized by Dept. Of Economics, Visva-Bharati on 23rd November, 2012.
3. Patra, P.K, Hydro-geochemical assessment of Bakreswar thermal springs: Implication for fluoride contamination, Paper presented Indian Science Congress (Environmental Sciences Section) held during 3-7 January, 2013, at Kolkata
4. Pati P. and Patra, P.K, Intertidal foraminifera along Digha-Chandipur Coast: Potential bioindicators. Paper presented Indian Science Congress (Environmental Sciences Section) held during 3-7 January, 2013, at Kolkata
5. Abbhijit Chowdhury, Shibani Chaudhury and P.K.Patra. A study of soil pollution of coal mine area. National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
6. Pravasini Pati, P.K. Patra and S. Goswami, Heavy metal distribution in sediment of three estuaries along the North-Eastern Odisha Coast, India. National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
7. Sakuntala Chakrabarti and P.K. Patra, Effect of fluoride on pigments, antioxidants enzymes and metabolites on Radish plant (*Raphanus sativa*) National Seminar on Echoes of Silent Spring: Human Impact on Environment, Organized by

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Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.

8. Attended the DST Sponsored Training Programme on "Hyperspectral Remote Sensing and Applications in Water Resources" held at IIT, Kharagpur during 18-23 March, 2013

S. Balachandran

1. Muthusamy Senthil Kumar, Srinivasan Balachandran, Shibani Chaudhury - Paper presented on "The Influence of Polyethylene glycol on callus culture of *Heliotropium indicum* for the assessment of total phenols and flavanoids content". National Seminar, JN Tata Memorial Auditorium, IIS, Bangalore, Second Indian biodiversity congress 9-11 December 2012, Page 179
2. Muthusamy Senthil Kumar, Srinivasan Balachandran, Shibani Chaudhury - Callus induction, biomass growth and morphology from stem explants of *Heliotropium indicum* L under the influence of plant growth regulators. Paper presented in the 100th Indian Science Congress, 3-7 January 2013, Kolkata
3. Manash Gope and S. Balachandran- Chemical Speciation of Pb in roadside deposited dust in Asansol, West Bengal, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
4. A. Shome, AK Chakraborty, AK Mathew, R. Goswami, SN Banerjee, S. Balachandran, S. Chaudhury - Role of some microorganisms in biogas production and their molecular detection: A review, Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
5. AK Chakraborty, A. Shome, AK Mathew, R. Goswami, SN Banerjee, S. Balachandran, S. Chaudhury - Utilisation of water hyacinth (*Eichhornia crassipes*) for biogas production: A brief review. Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.
6. SN Banerjee, S. Balachandran, S. Chaudhury - Sustainable environment for future generation- a reality or myth? Paper presented in the "National Seminar on Echoes of Silent Spring: Human Impact on Environment", Organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.

Ongoing Research Projects in the Departments:

Shibani Chaudhury

- a) Name of the Project: A comparative study of biotransformation mechanisms of earthworm *Lampito mauritii* and *Eisenia fetida* to soil of industrial origin.

Sponsoring agency: UGC, New Delhi

Amount Sanctioned: Rs.8,70,800/-

- b) Name of the Project: Development and Integration of Biomass and Concentrating Photovoltaic System for the Rural and the urban Energy Bridge : BioCPV.

A research project under the Indo-UK Collaborative Research Initiative on Bridging the Urban and the Rural Divide. (BURD)

Sponsoring agency: DST, New Delhi (Indian Side)

Amount Sanctioned: Rs.5,57,17,125/- of which amount for Visva-Bharati is Rs.2,26,70,325/-. Prof. Shibani Chaudhury (PI), Prof. A. Hazra (Co-PI) and Dr. S. Balachandran (Co-PI). The other Co-PIs are from IITM and IITB.

Pratap Kumar Padhy

Name of the project: Assessment of volatile organic compounds (VOCs) exposures during biomass combustion in rural homes and its impact on respiratory health. Project ended on 31st January 2013.

Sponsoring agency: UGC, New Delhi.

Amount sanctioned: Rs 10,68,676/-

Name of the project: Effect of stone crushing industries on *Shorea robusta* and *Madhuca indica* foliage in Lalpahari forest (continued from last year).

Sponsoring agency: Visva-Bharati.

Amount sanctioned: Rs 2370/-

Pulak Kumar Patra

Name of the project: Hydrogeochemical and stable isotope investigations on the fluoride enrichment process of groundwater in parts of Birbhum District, West Bengal, India.

Sponsoring agency: UGC, New Delhi.

Amount sanctioned: Rs 2,29,500/-

Name of the project: Hydrogeochemical assessment of Bakreswar thermal springs

Sponsoring agency: Visva-Bharati.

Amount sanctioned: Rs 2370/-

S. Balachandran

a) Name of the project: "A Comparative ethnobotanical investigation: The Santal tribes of major populated districts in West Bengal, India",

Sponsoring agency: UGC.

Amount sanctioned: Rs.8,28,300/-

b) Name of the Project: Development and Integration of Biomass and Concentrating Photovoltaic System for the Rural and the urban Energy Bridge : BioCPV.

A research project under the Indo-UK Collaborative Research Initiative on Bridging the Urban and the Rural Divide (BURD).

Sponsoring agency: DST, New Delhi (Indian Side)

Amount Sanctioned: Rs.5,57,17,125/- of which amount for Visva-Bharati is Rs.2,26,70,325/- . Prof. Shibani Chaudhury (PI), Prof. A. Hazra (Co-PI) and Dr. S. Balachandran (Co-PI). The other Co-PIs are from IITM and IITB

Extension activities/NSS/cultural and other activities organized by the department and participated by the teachers and students of the department

The M.Sc. students, research scholars and faculty members of Department of Environmental Studies (DES) were actively involved in the Environmental Awareness Campaign in the Poush Mela 2012. During this three days programme, the students and faculty members of DES monitored various environmental quality parameters (air, noise, water) of the Mela ground and its adjoining area. The Environment Cell, Visva-Bharati carried out procession in the Mela ground to create awareness of menace of plastic carry bags & plastic cups during Poush Mela. Painting and Slogan competitions were also held. The response for these competitions from the general public including housewives was encouraging. The NCC cadets from Visva-Bharati and local colleges also participated the awareness programme and clean-up of Mela ground during these three days. The local tribal community also volunteered in this programme and sold their eco-friendly goods (such as vermi-compost manures, paper & gunny bags and handicrafts etc) from the stall.

Shibani Chaudhury

a) Resource person on Workshop on water conservation organized by Department of Environmental Science, Burdwan University- 7th June 2012.

b) Resource person for a seminar on Environment and Plastic - Organised by Patha Bhavana, Visva-Bharati on 11th December 2012

Pratap Kumar Padhy

a) Acting as In-Charge of the Book Bank, Siksha-Bhavana, Visva-Bharati since April 2007.

b) Pratap Kumar Padhy: Resource Person, Climate change, water resources and food production: Some highlights in the context of India, DST Inspire Programme, Visva-Bharati, December 12, 2012.

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Shweta Yadav

Member of committee constituted for creation of Student Activities Centre.

Academic distinctions gained by Teacher /Scholars or Department as a whole: Nil

Publications within the year April 2012 -March 2013:

Shibani Chaudhury

1. Muthusamy Senthil Kumar, Srinivasan Balachandran and Shibani Chaudhury - Influence of Incubation Temperatures on Total Phenolic, Flavonoids Content and Free Radical Scavenging Activity of Callus from *Heliotropium indicum* L. Asian J. Pharm. Res. 2012; Vol. 2: Issue 4, Pg 148-152
2. Muthusamy Senthil Kumar and Srinivasan Balachandran, Shibani Chaudhury - A comparative analysis of total phenolic, flavonoids content and antioxidant activity of callus and in vivo plant parts from *Heliotropium indicum* L. Asian Pacific Journal of Tropical Biomedicine (2012)1-7
3. Manoj, K., Padhy, P. K. and Shibani Chaudhury, Study of Heavy Metal Contamination of the River Water through Index Analysis Approach and Environmetrics, Bulletin of Environment, Pharmacology and Life Sciences, 1, 10, September 2012, 7-15.
4. Utpal Majee, G.N.Chattopadhyay, B.C. Roy, Shibani Chaudhury and Shashank Shekher. "Possibility of using some amendments in mitigating the adverse effects of coal bed water on soil environment". In the Proceeding of the International conference on nuclear energy, environmental and biological sciences, September 2012, 68-70.

Pratap Kumar Padhy

1. Bhattacharyya R., Manoj, K. and Padhy, P. K. (2013). Index Analysis, Graphical and Multivariate Statistical Approaches for Hydrochemical Characterisation of Damodar River and its Canal System, Durgapur, West Bengal, India. International Research Journal of Environmental Sciences, 2, 2, 53-62.
2. Padhy, P. K. (2013). Effects of stone crushers' pollution on plant morphology and biochemistry. The Ecoscan (An International Quarterly Journal of Environmental Science), Special Issue, 3, 307-313.
3. Manoj K., Kumar, B. and Padhy, P. K. (2013). Spatial assessment and characterisation of the Subarnarekha river water through index analyses approaches and chemometrics. The Ecoscan (An International Quarterly Journal of Environmental Science), Special Issue, 3, 321-330.
4. Nayek, S., Porel, K., Hazra, D. & Padhy, P. K. (2013). Air pollution profile of the semi-urban Santiniketan-Bolpur-Sriniketan region, West Bengal, India. The Ecoscan (An International Quarterly Journal of Environmental Science), Special Issue, 3, 315-319.
5. Manoj, K. and Padhy, P. K. (2013). Climate Change, Water Resources and Food Production: Some Highlights from India's Standpoint. International Research Journal of Environment Sciences, 2(1), 79-87.
6. Rout, T. K., Masto, R. E., Ram, L. C., George, J. and Padhy, P. K. Assessment of human health risks from heavy metals in outdoor dust samples in a coal mining area. Environmental Geochemistry and Health. DOI 10.1007/s10653-012-9499-2.
7. Manoj, K., Kumar, B. and Padhy, P. K. (2012). Characterisation of Metals in Water and Sediments of Subarnarekha River along the Projects' Sites in Lower Basin, India, Universal Journal of Environmental Research and Technology (UJERT), 2, 5, October, 2012, 402-410.
8. Manoj, K., Padhy, P. K. and Chaudhury, S. (2012). Study of Heavy Metal Contamination of the River Water through Index Analysis Approach and Environmetrics, Bulletin of Environment, Pharmacology and Life Sciences, 1, 10, September 2012, 7-15.
9. Saha, D. C. & Padhy, P. K. (2012). Effect of particulate pollution on rate of transpiration in *Shorea robusta* at Lalpahari forest. Trees - Structure and Function, 26, 4, 1215-1223.

Pulak Kumar Patra

1. P. K. Pati and P. K. Patra, 2012 Benthic foraminiferal response to coastal pollution: a review International Journal of Geology, Earth and Environmental Sciences v. 2, pp.42-56.

2. S. Chakrabarti, P.K. Patra, B. Mandal, D. Mahato, 2012 Effect of sodium fluoride on germination, seedling growth, and biochemistry of Bengal gram (*Cicer arietinum*), Fluoride v.45, pp.257-262.
3. P.K. Patra, 2012 A text book on Climatology, Kalyani Publishers, New Delhi, 255p.
4. S.Chakrabarti, P.K.Patra and B. Mondal, 2013, Uptake of fluoride by two paddy (*Oryza sativa* L.) varieties treated with fluoride-contaminated water. Paddy Water Environ 11:619-623.
5. P.K. Patra, 2013, Participatory GIS in Rural Development: An Assessment, in Challenges of livelihood and Inclusive Rural Development in the Era of Globalisation Ed. P.K. Chattopadhyay & S. Bhattacharya, New Delhi Publishers, New Delhi p. 226-235.

S. Balachandran

1. Muthusamy Senthil Kumar, Srinivasan Balachandran and Shibani Chaudhury - Influence of Incubation Temperatures on Total Phenolic, Flavonoids Content and Free Radical Scavenging Activity of Callus from *Heliotropium indicum* L. Asian J. Pharm. Res. 2012; Vol. 2: Issue 4, Pg 148-152
2. Muthusamy Senthil Kumar and Srinivasan Balachandran, Shibani Chaudhury - A comparative analysis of total phenolic, flavonoids content and antioxidant activity of callus and in vivo plant parts from *Heliotropium indicum* L. Asian Pacific Journal of Tropical Biomedicine (2012)1-7

Shweta Yadav

1. Tandon, A., Yadav, S., Attri, A.K. (2012). Analysis of Annual Cyclic Variations in Total Ozone Column over Indian Region, Journal of Atmospheric Chemistry, 69, 4, 321-335. doi:10.1007/s10874-012-9243-4. [Springer; IF: 0.985]
2. Yadav, S., Tandon, A., Attri, A.K. (2013). Monthly and Seasonal Variations in Aerosol Associated n-alkane Profiles in Relation to Meteorological Parameters in New Delhi. Aerosols and Air Quality Research, 13, 287-300. doi: 10.4209/aaqr.2012.01.0004. [IF: 2.827]
3. Yadav, S., Tandon, A., Attri, A.K. (2013). Characterization of aerosol associated non-polar organic compounds using TD-GC-MS: A four year study from Delhi, India. Journal of Hazardous Materials, 252-253, 29-44. doi: 10.1016/j.jhazmat.2013.02.024. [Elsevier; IF: 4.173]
4. Tandon, A., Yadav, S., Attri, A.K. (2013). Non-linear analysis of short term variations in ambient visibility. Atmospheric Pollution Research, 4, doi: 10.5094/APR.2013.020.
5. Attri, A.K., Yadav, S. (2013). Gas Chromatography - Multidimensional Aspects. Cutting Edge, A Spinco Biotech publication, 3 (3), 5-9.

Designing new course/curriculum or any other teaching innovations introduced by the department: The Choice Based Credit system (CBCS) was introduced for M.Sc. Environmental Science with four Special paper and one elective.

A brief history of the development of the Bhavana/Sadana/Vibhaga concerned with an indication of future plans for development:

The Department of Environmental Studies (DES), Siksha Bhavana, Visva-Bharati was established in 1999 during the IXth Plan period as the Centre for Environmental Studies, supported financially by the UGC. From 2012 the Centre became a Department after approval of the Academic Council and Executive Council. The Department started its academic curriculum from the session 2000-2001, for all second year undergraduate students of the university. For this session (2012-2013) more than 1000 students are taking this course. The Department started the M. Sc. Course in Environmental Science from the session 2003-04. The faculty members of the Department are doing research work on different aspects of environment.

The Department plans to develop good infrastructure for quality research, in different fields of environment. One of its founding objectives has been to act as a Nodal Department in the Eastern India, in the field of Environmental Studies.

Any other relevant information:

The faculty members of DES actively participate in environmental awareness programme in and around Santiniketan-

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Sriniketan-Bolpur areas. Resource persons are invited to the Department to help the students in different environmental activities.

Particulars in details of the Departmental Library:

- (a) Area quoted for the library: Nil, Four Book Shelves
- (b) Is there separate provision for reading room? No
- (c) Total no. of books: 571
- (d) Total no. of books purchased during the year: Nil.
- (e) Total no. of periodicals: Nil
- (f) Total no. of periodicals purchased during the year: Nil

DEPARTMENT OF BIOTECHNOLOGY

Name of the students qualified in UGC-CSIR NET/SLET and GATE Examinations:

GATE qualified semester IV students of 2011-2013 batch & Ph.D. students

- I. Sayani Goswami (All India ranking 321)
- II. Archana Rai (All India ranking 1493)
- III. Tejveer Singh (All India ranking 3128)
- IV. Chandan Kumar Jha (Student of 2009-2011 batch; All India ranking 2335)
- V. Shainy Ojha (Student of 2010-12 batch; All India ranking 423)
- VI. Jyotsana Singh (Student of 2010-12 batch; All India ranking 1067)
- VII. Sweta (Student of 2010-12 batch; All India ranking 820)
- VIII. Sheetal Chaya (Student of 2010-12 batch)
- IX. Sanjay Kumar (Student of 2010-12 batch)
- X. Ashok Kumar (Student of 2010-12 batch)
- XI. Prottyusha Dey (Ph.D. course work student, 2012-13, All India ranking 2078)

Departmental Seminar (Speakers, Title of the seminar lecture):

DATE	SPEAKERS	TOPIC
03-09-2012	Prof. Sanghmitra Raha, Saha Institute of Nuclear Physics, Kolkata	How do cell die?
19-11-2012	Prof. Lubomir Kovacic Dept. Botany, Natural Sci., Commenious University, Bratislava, Slovak Republic	Biocorrosive action of cyanobacteria and algae on cultural monuments
19-11-2012	Prof. Laura Bruno Div. Biological Sciences, Univ. of Rome "Tor Vergata", Italy	Biodeterioration of Roman catacombs: ten years in characterizing and controlling the development of phototrophic biofilms on valuable surfaces
19-11-2012	Dr. Roberta Constegri, Div. Biol. Sciences, University of Rome, Italy	Natural and cultured phototrophic biofilms in water systems.
21-01-2013	Prof. S.P. Adhikary, Dept. Biotechnology, Visva-Bharati	Journey with Phycology: Not the arrival matters.
19-02-2013	Dr. Debasis Bandopadhyay Dept. Physiology, University of Calcutta, Kolkata	Melaotnin: Protection against myocardial ischemia.
17-09-2012	M.Sc. students: 1) Anjali Gangwar 2) Archana Rai 3) Sayani Goswami 4) Kasturee Chakraborty	Extraction of DNA from different sources. DNA extraction and quantification by nano drop method Exploration of a soil isolated for its agriculture potential. Cloning and expression study of Dehydrin gene.

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	5) Dheerendra Pratap Mall	Isolation, purification and identification of actinomycetes.
24-09-2012	6) Priyajit Banerjee 7) Tejveer Singh 8) PratibhaSuku	Apoptosis Late blight of potato. Maternal acceptance of the fetus.
1-10-2012	9) Alfred besra	Fetuin acts as an endogenous ligand for TLR4 to lipid induced insuline resistance.
	10) Samreen fatima.	Thymus gland.
8-10-2012	11) Anjali Gangwar 12) Saumya Mishra 13) Sarthaki Ghonge	Antisense mechanism in drug development Green synthesis of silver nano particle Aggressive mechanism of pathogen
28-01-2013	14) Pramita Gorai	Current approaches to improve the anti cancer chemotherapy with alkylating agent.
11-02-2013	15) Ravi Kumar 16) Surbhi Kumari	Melanoma. Nano technology for the treatment of HI
18-02-2013	17) Archana Rai 18) Sayani Goswami 19) Reha Labar 20) Alfred Besra	Alzheimer's disease Brain reprogramming of adult cells Biodiesel Substrative suppression hybridization (SSH)
4-03-2013	21) Kasturee Chakraborty 22) Anjali Gangwar	Microbial fuel cell Codon optimization
11-03-2013	23) Priyajit Banerjee 24) M. Kondababu	RNA interference Evolution of microRNA
18-03-2013	25) Ravi Kumar 26) Dheerendra Pratap Mall	The phytoplasma miR398 level down regulates during biotic and abiotic stress

Summer training carried out by the students of the Department after their 2nd semester:

1. Ms. Kasturee Chakraborty took summer training on "Cloning and expression study of Dehydrin gene" under the supervision of Dr. Sudipta Ray, Dept. of Botany, University of Calcutta, Kolkata, West Bengal, from 15th May to 7th July 2012.
2. Ms. Anjali Gangwar took summer training on "Extraction of Genomic and Plasmid DNA from Plant and Animal sources and its analysis through nanodrop and agarose gel electrophoresis" under the supervision of Dr. Uma Shankar, consultant scientist, Biotech park, Lucknow, Uttar Pradesh, from 1st June to 30th June 2012.
3. Mr. Dheerendra Pratap Mall took summer training on "Isolation, Purification and Identification of Actinomycetes" under the supervision of Dr. Anurag Chaurasia, scientist, National Bureau of agriculturally important microorganisms (NBAIM), Maunath Bhanjan, Uttar Pradesh, from 20th May to 10th July 2012.
4. Ms. Sayani Goswami took summer training on "Exploration of a soil isolate for its agricultural potential" under the supervision of Prof. Sukanta Sen, Dept. of Botany, Visva-Bharati, Santiniketan, West Bengal, from 1st June to 4th July 2012.
5. Ms. Archana Rai took summer training on "Extraction of Genomic and Plasmid DNA from Plant and Animal sources and its analysis through nanodrop and agarose gel electrophoresis" under the supervision of Dr. Uma Shankar, consultant scientist, Biotech park, Lucknow, Uttar Pradesh, from 1st June to 30th June 2012.

In-house Project work by the M.Sc. 4th semester students for fulfillment of M.Sc. degree:

- 1 Sainy Ojha Amplification of 3' end of a gene encoding cellobiose dehydrogenase from *Termitomyces clypeatus* Dr. A. Roy, Associate professor, Dept. Biotechnology, Visva Bharati
- 2 Amplification Sweta of a part of glucoamylase gene from *Termitomyces clypeatus* Dr. A. Roy, Associate professor, Dept. Biotechnology
- 3 Alok Priya Characterization and genetic analysis of some rice genotype for osmotic stress tolerance and also characterization of ten flowering related genes Dr. N. Dey, Assistant Professor, Department of Biotechnology
- 4 Jyotsana Singh Potential of *Vigna unguiculata* for uptake of Zn from contaminated environment: Amplification of the transporter gene from *Vigna unguiculata*. Dr. Jolly Basak, Assistant Professor, Department of Biotechnology
- 5 Sheetal Chaya Biochemical and molecular profiling of three common rice (*Oryza sativa* Linn) lines with one wild rice and one rice relative in relation to osmotic stress tolerance. Dr. N. Dey, Assistant Professor, Department of Biotechnology
- 6 Ram Krishna Determination of hepatotoxicity and cardio toxicity in Balb/c mice upon treatment with coffee extract Dr. S. Saha, Assistant Professor, Department of Biotechnology
- 7 Sanjay Kumar Zinc response on growth dynamic and biochemical change in *Brassica juncea* to study its phytoremediation ability: amplification of resistance gene alalon from *Brassica juncea*. Dr. Jolly Basak, Assistant Professor, Department of Biotechnology
- 8 Vikas Fulia An *in vitro* investigation of the antimicrobial activity of humic acids Dr. N. Das, Assistant Professor, Department of Biotechnology
- 9 Ashok Kumar Biodiversity of cyanobacteria on building facades of Santiniketan and their tolerance to UV Prof. S.P. Adhikary,

National and International standard Conference/Seminar/ Workshop/ Exhibitions etc. attended by teachers/ Research scholars in details:**S.P. Adhikary:**

1. S.P. Adhikary: Special lecture on "Biodiversity of seaweeds in eastern India and their utilization for production of liquid fertilizer, agar and antioxidant enzymes. BIT's 1st annual International congress of Marine algae-2012 at Dalian, China, September 20-22, 2012.
2. S.P. Adhikary: Lead lecture in the theme on Biodeterioration session of the International conference on Microbial world: Recent innovations and future trends, on " Biodiversity of stress tolerant cyanobacteria on exposed surfaces of monuments of cultural heritage, their biodeteriogenic activity and possible control for conservation" at KIIT University, Bhubaneswar, Nov. 22-25, 2012 and Chaired a session.
3. S.P. Adhikary: Invited lecture on "Teaching and research on algae: past and present scenatrio in India" In National seminar on Cryptogams-the key contributors to the ecosystem" Department of Botany, University of Calcutta, Kolkata, 7th November 2012 and Chaired a session.
4. S.P. Adhikary: Plenary lecture in the International conference on algal biorefinery: a potential source of food, feed, biochemicals, biofuel and biofertilizers, at IIT, Kharagpur; Jan 10-12, 2013 and Chaired a session.
5. S.P. Adhikary: Plenary lecture in the National seminar on Ecology, Environment and Development at Sambalpur University, Sambalpur, Odisha on 25 to 27 January 2013 and Chaired a session.
6. S.P. Adhikary: Plenary lecture in the International conference on Biotechnology in Human welfare, at Kakatiya University, Warangal, Andhra Pradesh, 7th to 9th February 2013.
7. S.P. Adhikary: Invited lecture on " Diversity of fresh water algae in eastern and north eastern region of India: a comprehensive documentation through AICOPTAX, and algal culture collections for bioprospecting" in the National conference on Biodiversity and its conservation, at Sambalpur University, Odisha, 17 to 18th February 2013 and Chaired a session.
8. S.P. Adhikary: Special lecture on "Culture collections of microalgae and cyanobacteria: The Indian scenario int he globe" in the National Seminar on Micro- and macro resources in Biomolecular Technology, Dept. Biotechnology, North Bengal University, Siliguri from 25 to 26 February 2013 and Chaired a session.

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9. S.P. Adhikary: Plenary lecture in the National symposium on Fundamentals and applied phycology at the Department of Botany, Punjabi University, Patiala on March 25-26, 201 and chaired a session.

Delivery of seminar lectures at National level at different places :

- i. S.P. Adhikary: Lectures in the DST-INSPIRE Internship camp at Manipur Central University on 8th and 9th August 2012.
- ii. S.P. Adhikary: Lecture in the DST-INSPIRE Internship camp at Visva-Bharati, Santiniketan, 14th December 2012.
- iii. S.P. Adhikary: Lecture in the seminar of P.G. Dept. Botany at Dhenkanal Autonomous college, Odisha on 12th Feb. 2012.
- iv. S.P. Adhikary: Lecture in the UGC sponsored Refresher course at Sambalpur University on 7th September 2012.
- v. S.P. Adhikary: Key note speaker in the national seminar on Sustainable management of environment in mining areas, Barbil college, Barbil, Odisha, 18th and 19th August 2012.
- vi. S.P. Adhikary: Key note speaker in the national seminar on Sustainable development through the use of biofertilizers" at Aul college, Aul, Odisha, 5th and 6th January 2013.
- vii. S.P. Adhikary: Lecture in the UGC sponsored Refresher course at Sambalpur University on 16th February 2013.

A. Roy:

1. Dr. Amit Roy: participated and presented a poster entitled "New antifungal compounds from *Aegiceras corniculatum*, a mangrove plant from Sundarban estuary" in the 53rd Annual Conference of the AMI: International conference on "Microbial world: Recent innovations and future trends" held at KIIT University, Bhubaneswar between November 22nd and 25th, 2012.
2. Dr. Amit Roy: funded by a sanction under the Merged Scheme program of Visva-Bharati, participated and presented a poster entitled "Medicinal potentials of the mangrove plants from Sundarban estuary" at the 5th International Symposium (CTDDR-2013: Drug development for Orphan/Neglected diseases) organized by CSIR-CDRI, at Lucknow between 26th -28th February, 2013.

J. Basak:

1. Dr. J. Basak. Understanding the structural mechanism of non-host resistance in rice. ; January 3-7, 2013. 100th Science Congress, Kolkata.
2. Dr. J. Basak. Potential of *Vigna unguiculata* as a phytoremediation plant in the remediation of Zn from contaminated soil.; VI International Conference on Legume Genetics and Genomics. Hyderabad, October 2-7, 2012.
3. Dr. J. Basak. Molecular modeling of protein-protein interaction to decipher the structural mechanism of nonhost resistance in rice; Plant Biology Congress, Freiburg 2012. 29th July-3rd August, 2012. University of Freiburg, Germany.

N. Dey:

1. Dr. N. Dey. Golden Jubilee National Seminar on 'Advances in Agricultural Research towards Food Security and Environmental Sustainance'"Preparation of a databank for the excising land races, wild species and wild relatives of rice for utilization in Breeding Programme" on 1-13rd September, 2012.
2. Dr. N. Dey. Association of Rice Research Workers golden jubilee international symposium " Sustainable Rice Production and Livelihood Security: Challenges and Opportunities" ; Central Rice Research Institute, Cuttack from March 02-05, 2013.

S. Saha:

1. Dr. S. Saha. International workshop on 'Applications of Flowcytometry and Imaging in Cell Biology and Nano-Biotechnology' from 11 - 18 August, 2012, conducted by Centre for Research in Nanoscience and Nanotechnology, University of Calcutta.
2. Dr. S. Saha. 100th Indian Science Congress from 3 - 7 January, 2013 held at University of Calcutta, Kolkata.
3. Dr. S. Saha. National Seminar on 'Recent Advances in Rice Genomics and Biotechnology' during 23-24 March, 2013 held at Department of Biotechnology, Siksha Bhavana, Visva-Bharati.

Research Scholars and students:

Aritra Simlai, Research scholar:

1. Participated in the workshop " Molecular modelling and drug designing" at National Institute of Cholera and Enteric diseases, Kolkata, 12 to 13 April 2012.
2. Participated in the 5th International symposium on drug development for orphan/neglected diseases, CDRI, Lucknow, 26 to 28 February 2013.

Nitin Keshari, Research scholar:

1. Participated in a short term training programme on "Bioinformatical approaches for sequence analysis and protein structure predictions" held at Centre of Excellence in Bioinformatics (COEBI), Bioinformatics Infrastructure Facility (BIF), Department of Biochemistry, University of Lucknow, Lucknow during July 13-14, 2012.
2. Poster presentation entitled as "Cyanobacteria on the stone monuments of Santiniketan and their tolerance to the extreme environment on the exterior surface" in an international conference on Microbial world: recent innovations and future trends, 53rd Annual conference of Association of Microbiologists of India (AMI) organized by KIIT University, Bhubaneswar, Odisha during November 22-25, 2012.
3. Poster presentation entitled as "Cyanobacteria on the stone monuments at Santiniketan and their adaptation mechanisms to high solar insolation" in 100th Indian Science Congress organized by Calcutta University, Kolkata during January 3-7, 2013.
4. Oral presentation entitled as "Diversity and phylogenetic analysis of cyanobacteria on building facades at heritage sites of Santiniketan, West Bengal" in a national seminar on Micro and Macro Resources in Biomolecular Technology organized by Department of Biotechnology and Microbiology, University of North Bengal during February 25-26, 2013.
5. Poster presentation entitled as "Survey of cyanobacteria on the stone monuments and their survival strategies to elevated temperature" in a national symposium on Fundamental and Applied Phycology organized by Punjabi University Patiala, Punjab during March 25-26, 2013. The above was judged as the best poster presentation.

Dhanesh Kumar, Research scholar:

1. Participated in a short term training programme on "Bioinformatical approaches for sequence analysis and protein structure predictions" held at Centre of Excellence in Bioinformatics (COEBI), Bioinformatics Infrastructure Facility (BIF), Department of Biochemistry, University of Lucknow, Lucknow during July 13-14, 2012.
2. Poster presentation entitled "Cyanobacteria in Biological Crusts on arid soils of Santiniketan and their adaptation to water stress" at 53rd Annual Conference of Association of Microbiologists of India (AMI) on "Microbial World: Recent Innovations and Future Trends" organised by KIIT University, Bhubaneswar, Odisha during November 22-25, 2012.
3. Poster presentation entitled "Cyanobacteria in the biofilms on the soils of Santiniketan in Birbhum, their role in soil structuring and nutrient mobilization" at 100th Indian Science Congress organised by University of Calcutta, West Bengal during January 3-7, 2013.
4. Poster presentation entitled "Diversity and pigment analysis of soil crust cyanobacteria from tea gardens of Darjeeling Himalayan, West Bengal" at National Seminar on Micro- and Macro- resources In Biomolecular Technology organised by North Bengal University, Silliguri, West Bengal during February 25-26, 2013.
4. Oral presentation on "Cyanobacteria in the Biological Soil Crusts of Santiniketan and their Stress Adaptation Mechanism" at the National Symposium on Fundamental and Applied Phycology organised by Department of Botany, Punjabi University, Patiala, Punjab during March 25-26, 2013.

Debabrata Mohanty, Research scholar:

1. Poster presentation entitled "Protocol for the preparation of seaweed liquid fertilizer (SLF) and their effect on vegetative growth and yield of two vegetable crops" in a National Seminar 'Golden jubilee Seminar' on Advances in Agriculture organized by Pallisiksha Bhavana, Sriniketan, Visva-Bharati during September 1-3, 2012. The poster was adjudged 4th position and awarded.

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2. Oral presentation entitled "Preparation of liquid fertilizer from seaweeds of Chilika lake and its effect on the vegetative growth and yield of several crops" in a National Symposium on Fundamental and Applied Phycology organized by Department of Botany, Punjabi University, Patiala, Punjab during March 25-26, 2013. The above was judged as the best oral presentation.

Rajib Roychowdhury, Research scholar:

1. Oral Paper Presentation 'SSR Marker Based Genotyping of Some West Bengal Rice (*Oryza sativa* L.) Landraces for Osmotic Stress Tolerance' by Rajib Roychowdhury, Joydip Karmakar, Showkat Ahmad Ganie, and Narottam Dey. National Conference on "Utilization of Plant & Microbial Resources" organized by Department of Botany, Visva-Bharati, Santiniketan, West Bengal on 17th and 18th March, 2012.
2. Oral Paper Presentation 'SSR Marker Based Genotyping of Some West Bengal Rice (*Oryza sativa* L.) Landraces for Osmotic Stress Tolerance' by Rajib Roychowdhury, Joydip Karmakar, Showkat Ahmad Ganie, and Narottam Dey.; Seminar on "Frontiers in Molecular Biology & Workshop on Basic Flowcytometry" organized by Department of Zoology, The University of Burdwan, Burdwan, West Bengal, India at 9th July, 2012.
3. Oral Paper Presentation- 'Physiological and molecular marker based profiling of rice (*Oryza sativa* L.) landraces for abiotic stress tolerance' by Rajib Roychowdhury, Joydip Karmakar, and Narottam Dey. ARRW Golden Jubilee International Symposium on "Sustainable Rice Production and Livelihood Security: Challenges and Opportunities" organized by Central Rice Research Institute (CRRI), Cuttack, Odissa, India at 2nd - 5th March, 2013.
4. Poster Presentation-'Agro-morphology, quality and osmotic stress tolerance based profiling of West Bengal traditional rices (*Oryza sativa* L.)' by Rajib Roychowdhury, Joydip Karmakar, Amrita Paul, and Narottam Dey; National Seminar on "Recent advances in Rice Genomics & Biotechnology" jointly organized by Department of Biotechnology & Palli Siksha Bhavana, Visva-Bharati, West Bengal at 23rd - 24th March, 2013.

Joydip Karmakar, Research scholar:

1. Oral Paper Presentation-'Abiotic stress tolerance linked marker assisted screening of some indigenous West Bengal rice (*Oryza sativa* L.) landraces with some physiological and biochemical screening' by Joydip Karmakar, Rajib Roychowdhury, Rup Kumar Kar, and Narottam Dey National Conference on "Utilization of Plant & Microbial Resources" organized by Department of Botany (UGC-DRS, DST-FIST), Visva-Bharati, Santiniketan, West Bengal at 17th - 18th March, 2012.
2. Oral Paper Presentation-'Profiling of Selected West Bengal Folk Rice Cultivars in relation to Abiotic Stress Tolerance' by Joydip Karmakar, Debal Deb, and Narottam Dey Seminar on "Frontiers in Molecular Biology & Workshop on Basic Flow-cytometry" organized by Department of Zoology, The University of Burdwan, Burdwan, West Bengal, India on 9th July, 2012.
3. Seminar on "100 years of Science" organized by West Bengal Department of Science and Technology (WB-DST) held at Saha Institute of Nuclear Physics (SINP), Kolkata, West Bengal on 9th - 10th January, 2013.
4. Poster presentation-'Rice genomics for management of abiotic stress' by Joydip Karmakar, Rajib Roychowdhury, Rup Kumar Kar, Debal Deb, and Narottam Dey ARRW Golden Jubilee International Symposium on "Sustainable Rice Production and Livelihood Security: Challenges and Opportunities" organized by Central Rice Research Institute (CRRI), Cuttack, Odissa, India at 2nd - 5th March, 2013.
5. Oral Presentation- 'Study of selected rice landraces in relation to abiotic stress tolerance' by Joydip Karmakar, Rajib Roychowdhury, Rup Kumar Kar, and Narottam Dey; National Seminar on "Recent advances in Rice Genomics & Biotechnology" jointly organized by Department of Biotechnology & Palli Siksha Bhavana, Visva-Bharati, West Bengal at 23rd - 24th March, 2013.

Showkat Ahmad Ganie

1. Poster presentation-'Genotyping of Salt Tolerant Rice and its Wild Relatives using Microsatellite Markers spanning the saltol QTL located on Rice Chromosome 1' by Showkat Ahmad Ganie, Rajib Roychowdhury, Joydip Karmakar, Tapan Mondal and Narottam Dey; National Conference on "Utilization of Plant & Microbial Resources" organized by

Department of Botany (UGC-DRS, DST-FIST), Visva-Bharati, Santiniketan, West Bengal at 17th - 18th March, 2012.

2. Attended an workshop on "Introductory Bioinformatics, its Applications and Genome Analysis" on 9th and 10th April, 2012 at National Institute of Cholera & Enteric Diseases, C.I.T. Road, Scheme-XM, Beliaghata, Kolkata- 700 010.

Nisha Patwa, Research scholar:

Participated in the Workshop on recent Developments in Chemistry sponsored by Indian Academy of Sciences at the Department of Chemistry, Visva-Bharati from 29th Nov. to 1st December 2012.

Nibedita Chakraborty, Research scholar:

Participated in the Workshop on recent Developments in Chemistry sponsored by Indian Academy of Sciences at the Department of Chemistry, Visva-Bharati from 29th Nov. to 1st December 2012.

Miss Pratibha Suku, M.Sc. semester I student:

Participated in the sixth Benny Shilo Course of Developmental Biology organized by NCBS-TIFR, Bangalore.

Five M.Sc. Ist semester students- Pratibha Suku, Priyajit Banerjee, Samreen Fatima, Surbhi Kumari, Soumya Mishra and Pramita Garai: Participated the 100th annual session of Indian Science Congress at Kolkata from 3rd to 7th January 2013.

Ongoing Research projects in the Department:

S.P. Adhikary, PI:

1. Research project: "Molecular taxonomy of stress tolerant cyanobacteria and characterization of stress proteins and antioxidant defence systems in selected anhydrobiotes" sponsored by Department of Science and Technology, Govt. of India (2010-2013); Amount sanctioned: Rs.29,93,200/-
2. Lab-to-Land project entitled "Development of seaweed liquid fertilizer from seaweeds of Chilika lake for pulses and vegetable crops and entrepreneurship development in rural areas" sponsored by Department of Science and Technology, Govt. of India, New Delhi, 2010-2013. The project implemented in the villages in the Bolpur block adapted by Palli Siksha Bhavana of Visva-Bharati and villages close to Chilika lake of Orissa in Ganjam district with an aim to develop entrepreneurs in seaweed liquid fertilizer among farmers, unemployed youth, SSGs in rural areas of West Bengal and Orissa. Amount sanctioned: Rs.10,61,000/-
3. MOU between Visva-Bharati and University of Rome "Tor Vergata" on "Biotechnologies and nanotechnologies for cultural heritage"; PI in Visva-Bharati Prof. S.P. Adhikary & PI in University of Rome Prof. Patrizia Albertano, Head of Phycology group, Biology Division; 2010-2013.
4. Dr. B.P. Pal National Environmental Fellowship Award on Biodiversity project of Ministry of Environment and Forests, Govt. of India on " Biodiversity assessment of algae and cyanobacteria from eastern Himalaya and hotspots of North-eastern region"; 2012-2014; Rs. 3 lakhs for contingency, Rs.2,40,000 fellowship to PI and Rs.1,84,800/- or Total 7.24 lakhs

A. Ray, PI:

1. Research project: "Screening and characterization of antimicrobial compound(s) from *Ceriops decandra*, a beneficial mangrove plant from Indian Sunderban Estuary; Sponsoring agency: UGC; (On going)

Nilanjana Das, PI:

1. DST -SERC fast track project entitled "Age- and reactive species-mediated modification of macromolecules and its physiological consequence in yeast (*Saccharomyces cerevisiae*)". Rs 18,76,600/-.
2. CSIR project entitled "Evaluation of age-associated alterations in anti-oxidative defence in *Saccharomyces cerevisiae* and its role in accumulation of oxidative stress". Rs 28,24,820/-
3. UGC minor project entitled "A study on the probable reasons behind selective susceptibility of proteins to age and/or oxidative stress using bioinformatics tools" Rs. 1,20,000/-

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4. Partial research support of Visva-Bharati for the project "A method for *in situ* estimation of protein amount in polyacrylamide gels" Rs. 2,370/-

J. Basak, PI:

1. DST-Fast Track Research project :cDNA-AFLP to identify differentially expressed genes in *Vigna mungo* upon inoculation with Mungbean yellow mosaic India virus ; 24.3.2012-23.3.2015; Rs. 24 Lakhs
2. DBT , Govt. of India sponsored Research project: Identification and characterisation of *Phaseolus vulgaris* microRNAs differentially expressed in biotic stress condition by deep sequencing of small RNA transcriptomes; 01.07.2012-30.6.2015; Rs. 44.5 Lakhs

Narottam Dey,PI:

1. Research project: Biochemical and Molecular Profiling of West Bengal Folk Rice Germplasm with reference to Abiotic Stress Tolerance.; Department of Science and Technology, Govt. of West Bengal; Rs. 10,26,800/-
2. Research project: Allele Mining for Stress Tolerance in Traditional and Wild Relatives of Rice (*Oryza sativa* L.); University Grants Commission, New Delhi; Rs.8,99,300/-

S. Saha, PI:

1. UGC Research project: Therapeutic and immunomodulatory potential, and mechanism of action of *Tinospora* spp. against visceral leishmaniasis; (sanctioned on 5.3.2013 in the website of UGC); Rs. 13,18,800/-

Extension activities/NSS/Cultural and other activities organized by the Department and participated by the Teachers and students of the Department:

- i. Prof. S.P. Adhikary Organised workshop for farmers women self help groups and entrepreneurs on "Seaweed liquid fertilizer" at the DST-SEED Project extension site in village Manikati, Dist. Ganjam, Odisha on 14 & 15 February 2013; and at Krishi Vigyan Kendra, Palli Siksha Bhavana, Visva-Bharati on 19 & 20 November 2012.
 - ii. Dr. N. Dey Serving as N.S.S. Programme officer organised various NSS activities of Siksha Bhavana.
- III. Study Tour of M. Sc students and Research scholars to IICB, Kolkata on Nov. 20, 2012 guided by all the teachers of the Department.
- iv. Study tour of M. Sc students during Dec. 26-30, 2012 to Dudaars, West Bengal accompanied by Dr. N. Das and Dr. N. Dey, Assistant Professor of the Department.
 - v. A National Seminar on 'Recent Advances in Rice Genomics and Biotechnology' was organised on 23-24th March, 2013, Jointly by the Department of Biotechnology, Siksha Bhavana, Santiniketan and Palli Siksha Bhavana, Sriniketan; Organising Secretary: Dr. N. Dey of the Department. Totally 120 persons comprising of 45 M. Sc students, 35 Research scholars and 30 scientists including the teaching faculty participated in the seminar.
 - vi. Prof. S.P. Adhikary Organised workshop for farmers women self help groups and entrepreneurs on "Seaweed liquid fertilizer" at the DST-SEED Project extension site in village Manikati, Dist. Ganjam, Odisha on 14 & 15 February 2013; and at Krishi Vigyan Kendra, Palli Siksha Bhavana, Visva-Bharati on 19 & 20 November 2012.
 - vii. Dr. S. Saha: Organised the cultural program for the National Seminar on 'Recent Advances in Rice Genomics and Biotechnology' at the Department on 23rd March, 2013

Academic distinctions gained by the Teachers/Scholars or the Department as a whole:

Academic distinctions:

1. Prof. S.P. Adhikary: Conferred "Professor Harihar Pattnaik memorial award in Environmental sciences (in the field of algology)" by Orissa Botanical Society at Ravenshaw University, Cuttack on 22nd December 2012.
2. Dr. N. Dey: Visiting scientist by Indian National Science Academy (INSA) and visited Central Agricultural Research Institute, Hungarian Academy of Sciences, Matoonvasar (Hungary) for 3 months in 2012.
3. Dr. N. Das: Selected in the INSA International Collaboration programme 2013 to Scotland for 4 weeks.

Academic assignments of the faculty at the National level:

1. S.P. Adhikary: Member of the judging committee of ICAR for "Jawaharlal Nehru Award for outstanding Doctoral thesis research in Agriculture and Allied Sciences, 2010" awarded in June 2012.
2. S.P. Adhikary: Member of the Research Advisory Committee of ICAR for the National Institute of Abiotic Stress Management, Malegaon, Maharashtra, 2012-13
3. S.P. Adhikary: Member of the Expert committee of UGC, New Delhi in the discipline of Biotechnology, 2012-13.
4. S.P. Adhikary: Committee member of the NIMITEL Project on Biofuel from Marine microalgae of CSIR, New Delhi, 2012-2013.
5. S.P. Adhikary: Member of the judging committee of ICAR for "Swami Sahajananda Saraswati Outstanding Extension scientist award 2012"
6. S.P. Adhikary: Member of the selection committee as subject expert for selection of faculty positions in Life Science in 2012 and Environmental science in 2013 at the Central University, Jharkhand.
7. S.P. Adhikary: Visiting Professorship in Environmental science at the Sambalpur University, Odisha, 2013.
8. Member of Board of studies in Biotechnology at Utkal University, Bhubaneswar and Fakir Mohan University, Balasore, Odisha for 2012-2013.
9. S.P. Adhikary: Evaluated the Ph.D. thesis submitted to the following nine Universities for which I was the examiner during 2012-13: i. Central University, Hyderabad, (ii) Banaras Hindu University, Varanasi; (iii) University of Lucknow, Lucknow; (iv) Utkal University, Bhubaneswar, (v) University of Madras, Chennai, (vi) Kakatiya University, Warangal, Andhra Pradesh.
10. S.P. Adhikary: Reviewer of paper submitted to the following journals: (i) Gene (Elsevier); (ii) Photochemistry and Photobiology (Elsevier); (iii) Journal of Applied Phycology (Taylor & Francis); Phykos (Phycological Society of India); Seaweed research and Utilization Journal (Seaweed Research and Utilization Association); Arid Land Management (Elsevier); Journal of Astrobiology (Springer).
11. Dr. J. Basak: Participated in the Refresher Course of UGC-Academic Staff College, Calcutta University from 19.11.2012 to 08.12.2012.
12. Dr. J. Basak: Resource person at the DBT sponsored workshop entitled "Application of Bioinformatics Tools & Techniques in Modern Biological Research" from 22nd -23rd March 2013, at the Orissa University of Agriculture and Technology, Bhubaneswar.
13. Dr. J. Basak: Resource person at the DBT sponsored workshop entitled "The Bar coding and PCR techniques" from 22nd Feb-24th Feb 2013, at the Tripura University.
14. Dr. S. Saha: Participated in UGC sponsored orientation program from June 23 to July 21, 2012 (obtained Grade A) conducted by Academic Staff College of University of Calcutta.

Publications within the year: April 2012-March 2013 (Text books/ Other books/ Monographs/ Research papers in peer reviewed journals: National/International:

1. Sethi, S.K. and Adhikary, S.P. Cost effective pilot scale production of biofertilizer using *Rhizobium* and *Azotobacter*. African J. Biotech. 11:13490-13493, 2012.
2. Sahu, J.K. and Adhikary, S.P. Phylogenetic analysis of two stigonematalean cyanobacteria based on 16S rRNA sequence. Phykos, 42: 59-64, 2012.
3. Rath, J., Mandal, S. and Adhikary, S.P. Salinity induced synthesis of UV-sunscreen compound scytonemin in the cyanobacterium *Lyngbya estuarii*. J. Photochem. Photobiol. B. Biology. 115:5-8. Doi:10.1016; 2012.06.002; PMID:22819261.
4. Bhakta, S. and Adhikary, S.P. Algal diversity in two major rivers of eastern India and phycological assessment of their pollution. The Ecoscan special issue 1. 07-14, 2012.
5. Das, S.K. and Adhikary, S.P. Algal diversity in reservoirs of odisha state, India. Indian Hydrobiology, 15: 17-41, 2012.
6. Das, S. K. and Adhikary, S.P. Diversity of freshwater algae in Arunachal Pradesh and their distribution in different altitudes. J. Ind. Bot. Soc. 91:160-182, 2012.

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7. Das, S.K. and Adhikary, S.P. Algal diversity in the reservoirs of Odisha state, India. *Indian Hydrobiology*, 15:17-41, 2012.
8. Adhikary, S.P. and M. Jena. Algal diversity of Kaziranga national park and Majuli river island hot spots of Assam. *Nelumbo (Bull. Bot. Survey India)*, 54: 1-22, 2012.
9. Mohanty, D., Adhikary, S.P. and Chattopadhyay, G.N. Seaweed liquid fertilizer (SLF) and its role in agricultural productivity. *The Ecoscan, Special issue, Vol.III:147-155*, 2013.
10. Vinod K Gupta and Amit Roy . Comparative study of antimicrobial activities of some mangrove plants from Sundarban estuarine regions of India. *Journal of Medicinal Plants Research*, 5480 - 5488, 2012.
11. Aritra Simlai and Amit Roy. Analysis of and correlation between phytochemical and antimicrobial constituents of *Ceriops decandra*, a medicinal mangrove plant from Indian Sundarban estuary. *Journal of Medicinal Plants Research*, 4755 - 4765, 2012.
12. Bahadur RP and Basak J. Molecular modeling of protein-protein interaction to decipher the structural mechanism of nonhost resistance in rice. *J Bio Mol Str. Dyn (In Press)*, 2013.
13. Lodha TD, Hembram P, Tep N and Basak J. Proteomics: A successful approach to understand the molecular mechanism of plant-pathogen interaction. *Am J Pl Sc. (In press)*, 2013.
14. Dey N, The different members of Chroococcales, The Blue Green Algae from Darjeeling Himalayas, India. *Journal of Economic and Taxonomic Botany* 36: 216-222, 2012.
15. Roychowdhury R, Karmakar J and Dey ,N. PCR-compatible genomic DNA isolation from different tissues of rice (*Oryza sativa* L.) for SSR fingerprinting. *EurAsian Journal of BioSciences* 6:85-90, 2012.
16. Ghosh N., Das S P., Mandal C., Gupta S., Das K., Dey N and Adak, M K . Variations of antioxidative responses in two rice cultivars with polyamine treatment under salinity stress. *Physiol Mol Biol Plants* 18(4):301-313, 2012.
17. Karmakar J, Roychowdhury R and Dey N. A Simple cost effective, modified protocol for isolation of PCR compatible genomic DNA from rice (*Oryza sativa* L.). *Plant Archives* 12: 1077-1079, 2012.
18. Mandal C, Ghosh N, Maiti S, Das K, Gupta S, Dey N and Adak M (2012) Antioxidative responses of *Salvinia (Salvinia natans* Linn.) to aluminum stress and it's modulation by Polyamine. *Physiol Mol Biol Plants (Accepted)*, 2013.
19. Maiti S., Ghosh B., Mandal C., Das K., Dey N. and Adak M K (2012) Responses of the maize plant to Chromium stress with reference to antioxidation activity. *Braz. J. Plant Physiol.* 24(3): 203-212.
20. Sethi, S.K. and Adhikary, S.P. *Azotobacter*: A plant growth promoting Rhizobacteria used as biofertilizer. In. *Dynamics Biochemistry, Process Biotechnology and Molecular Biology*. Global science books, Japan, pp.68-74, 2012.
21. S.P. Adhikary, Development of Biofertilizer formulations for rice cultivation: a success story in a village in the Ganjam district of Odisha. In. *Proc. National seminar on New Frontiers in Plant science Research for sustainable development*. Ed/ S.K. Nayak, P.N. Auto. College, Khurda, Odisha, Pp. 141-150, 2012.
22. S.K. Ratha, Misra, N., Panda, P.K. and Adhikary, S.P. Cyanotoxins: an overview of their impact on human health. In. *Microbial toxins and toxigenic microbes*. Eds. V.D. Pandey and S.K. Singh, Studium Press, LLC, pp. 425-464, 2012.
23. Maiti S, Basak J and Pal A. Current understanding on plant R-genes/proteins and mechanisms of defense responses against biotic stresses. In: *Review of plant pathology*, Ed. B. N. Chakraborty. Vol 6, 2013 ISMPP publications (in press).

Designing New Course/Curriculum or any other teaching innovations introduced by the Department:

The M.Sc. Biotechnology syllabus with semester system was re-revised in 2011-12 and implemented from the academic year 2012-13 basing on the expertise of the 6 faculties of the centre, distribution of the syllabus for teaching equally with emphasis on the basic biotechnology courses in the 1st and 2nd semester, and the applied courses including IPR, entrepreneurship and project work in the 3rd and 4th semester and with elective papers under the supervision of each faculty in the 4th semester, and also with a provision of choice based credit system for other courses of the University. Continuous assessment of the students through internal assessment of 20% of marks of each paper at both M.Sc. and Ph.D. course work level in practiced at the Department.

A brief history of the Development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development:

Biotechnology course at M.Sc, level was started at Visva-Bharati under the school of Life Sciences in the year 1997 with an intake of 10 students. Subsequently in the year 2004 the course was supported by the Department of Biotechnology through the DBT-HRD program, and the students admitted into the course are those who qualify the joint entrance examination conducted by JNU for the course with an intake of 10 students per year. From the year 2009-10 it was increased to 15 and from 2010-11 it is 19 per year. The students receive scholarship @ Rs.3000 per month besides Rs.50,000/- per student for project work leading to a dissertation. The Centre for Biotechnology teaching was given Departmental status by the University from 2012-13 academic session. Presently the Department has state-of-art facilities in teaching and research at present under the guidance of six permanent faculties with diverse field of specialization under Biotechnology. The syllabus is almost the same followed for Biotechnology course at the National level. The Department conducts VBRET (Research Eligibility test) for selection of candidates for Ph.D. course work followed by Ph.D. registration under the supervision of a teacher of the Department.

Presently the teachers have grants through projects from UGC, DST, DBT, MOEF and WB-DST and in addition a MOU with University of Rome for international collaborative research, besides the yearly DBT-HRD grant for the course showing its potential for development in the years to come.

Any other relevant information, which in the opinion of the Head of the Department is worth-reporting should be included.

The Department was awarded DST-FIST support for infrastructure development including equipments from the year 2012 for 5 years.

CENTRE FOR MATHEMATICS EDUCATION

Name of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations: Nil

Departmental Seminar:

Lecture Series: Lecture Series on various topics of basic concepts of Mathematics has been arranged for the students ranging from school students to P.G. Students.

Speakers, Topic(s) & Dates:

- (i) Prof. M. K. Chakraborty, Former Professor, Department of Pure Mathematics, Calcutta University
Topic: From set theory to numbers ; Dates: 12.02.2013 & 13.02.2013
- (ii) Prof. K. C. Chattopadhyay, Former Professor, Department of Pure Mathematics, Burdwan University Topics : (i) An elementary proof of fundamental theorem of algebra; Date 12.03.2013 (ii) Equivalence of some fundamental properties of real numbers; Date 26.03.2013
- (iii) Dr. A. K. Bhuniya, Department of Mathematics, Visva-Bharati Topics: (i) On Quotient Structures; Dates: 26.02.2013 & 05.03.2013 (ii) On Foundations of geometry; Dates: 14.03.2013, 19.03.2013 & 21.03.2013

Publication of the Year:

Avijit Roy (Research Scholar):

(i) Avijit Roy, The short-form of the revised junior Eysenck personality questionnaire: Bengali edition, Industrial Psychiatry Journal, July-Dec, 2012, vol. 21, Issue 2, 28-31. (In Press)

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development:

The Centre was created after the recommendation of the IX th Plan UGC Visiting team. Ph.D Research Programme on mathematical education is going on at the Centre. Ph. D Course work is also taught at the Centre. Apart from this Seminar/Conference/Extension Programmes / Invited Lectures are arranged at a regular interval. In future the Centre has plan to develop audio-visual teaching aids and to build virtual class-room teaching on some basic topics of mathematics by expert teachers.

Any other relevant information

After successful completion of Ph D Course-Work one Part-time Research student has been registered for doing Ph D work on "Identification of the causes of anxiety and phobia in mathematics among the students of secondary schools and evolving a strategy for minimizing the same"

Particulars in details of the Departmental Library:

Indian Journal of Mathematics Teaching:	35
Ganit Parikroma:	07
Ganit Prosar	04
Total	46

Integrated Science Education & Research Centre (ISERC)

Name of the student qualified in UGC/CSIR/NET/SLET and GATE:

ISERC has started its first session with the first batch of students for the Five-Year Integrated M. Sc. in Physical Science in 2009. None of the students have yet qualified in the NET/SLET or GATE.

Departmental Seminar: Two

- (i) DST INSPIRE CAMP during December 10-14, 2012
- (ii) Seminar Lecture by Prof. Debashish Chowdhury, Dept. of Physics, IIT-Kanpur, March 26 2013.

National and International standard Conference/Seminar/Workshop etc. Attended by the Teacher/Research Scholar

Sl. No	Name of the Teacher/ Research Scholar	Name of the Conference/ Seminar etc. attended by the member	Venue and Duration
1.	Dr. Subrata Sinha	National Symposium on Radiation and Photochemistry (NSRP - 2013).	March 20-22, 2013, NEHU, Shillong.
2.	Dr. Susanta Ghosh	National Workshop on Recent Trend in Chemistry	Dept. of Chemistry, Visva- Bharati, November 29-December 1, 2012
3.	Dr. Mahasweta Nandi	1. National Workshop on Recent Trend in Chemistry 2. 57th DAE Solid State Physics Symposium (DAE-SSPS 2012)	Dept. of Chemistry, Visva- Bharati, November 29-December 1, 2012 IIT-Bombay, Mumbai, December 3-7, 2012
4.	Dr. Umesh Kumar Singh	International Humboldt Kolleg (IHK-2013) on Management of Water, Energy and Bioresources in Changing Climate Regime: Environmental issues and Challenges.	JNU, New Delhi, Feb 8-9, 2013

On-going Research Projects in the Department:

Name of the Investigator	Title of the project and duration	Amount sanctioned	Funding Agency
Dr. Subrata Sinha (Principal Investigator)	Dye sensitized solar cell: photo- induced electron transfer in porphyrin based donar-acceptor dyads attached to nano-structured films for 3 years	Rs. 31,80,463.00	DAE-BRNS

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Extension activities organised by the department and participate by the teachers and students of the Department:

Teacher's Day was observed in a solemn programme by the students of Integrated Science Education and Research Centre (ISERC) in the Second year class room at MCA building behind University Computer Centre.

Academic distinction gained by Teacher/ Scholars or the Department as a whole:

Nil

Publications within the year April 2012- March 2013

Year	Books / Books chapter Published	Papers published in Journals	
		National	International
2012-13	NIL	01	09

Details of Publication

Subrata Sinha (Physics)

- (1) Solvent effect on the photophysical properties of porphyrins, M.Ghosh and S.Sinha. National Symposium on Radiation and Photochemistry (NSRP - 2013), March 20-22, 2013, NEHU, Shillong.
- (2) Fluorescence self-quenching of tetraphenylporphyrin in liquid medium, M. Ghosh, S. Nath, A. Hajra and S. Sinha. J. Lumin. 141 (2013) 87.

Mahasweta Nandi (Chemistry)

1. Highly porous activated carbon monoliths with exceptionally high CO₂ storage capacity Mahasweta Nandi, Keisuke Okada, Arghya Dutta, Asim Bhaumik, Jun Maruyama and Hiroshi Uyama Chemical Communications 48 (2012) 10283-10285 (Selected for cover page)
2. Organic-inorganic hybrid porous sulfonated zinc phosphonate material: efficient catalyst for biodiesel synthesis at room temperature, Malay Pramanik, Mahasweta Nandi, Hiroshi Uyama and Asim Bhaumik, Green Chemistry 14 (2012) 2273-2281.
3. 3D-Hexagonal Mesoporous Silica and its Organic Functionalization for High CO₂ Uptake, Arghya Dutta, Mahasweta Nandi, Manickam Sasidharan and Asim Bhaumik, ChemPhysChem 13 (2012) 3218-3222.
4. Titanium containing periodic mesoporous organosilica as an efficient catalyst for the epoxidation of alkenes, Arindam Modak, Mahasweta Nandi, Asim Bhaumik, Catalysis Today 198 (2012) 45-51.
5. Functionalized mesoporous materials as efficient organocatalysts for the syntheses of xanthenes John Mondal, Mahasweta Nandi, Arindam Modak and Asim Bhaumik, Journal of Molecular Catalysis A 363-364 (2012) 254-264.
6. Triazine functionalized ordered mesoporous organosilica as a novel organocatalyst for the facile one-pot synthesis of 2-amino-4H-chromene under solvent-free conditions John Mondal, Arindam Modak, Mahasweta Nandi, Hiroshi Uyama and Asim Bhaumik RSC Advances 2 (2012) 11306-11317.
7. Hybrid porous tin(IV) phosphonate: an efficient catalyst for adipic acid synthesis and a very good adsorbent for CO₂ uptake, Arghya Dutta, Malay Pramanik, Astam K. Patra, Mahasweta Nandi, Hiroshi Uyama and Asim Bhaumik, Chemical Communications 48 (2012) 6738-6740

Umesh Kumar Singh (Environmental Science)

Mehta P., Singh U.K. (2013) : Green Technology & Green Building Towards Sustainable Future International Humboldt Kolleg(IHK-2013) Feb 8-9 2013, JNU, New Delhi, Management of Water, Energy and Bioresources in Changing Climate Regime: Environmental issues and Challenges.

Swapan Kumar Pandit (Mathematics)

Durga C. Dalal & Swapan K Pandit, July 2012 Transient Solution of an Incompressible Viscous Flow in a Channel with Sudden Expansion/Contraction, World Academy of Science, Engineering and Technology 67, 158-169.

Designing New Course/ Curriculum or any other teaching innovation introduced by the Department.

The course structure and ordinance of the Five-Year Integrated M. Sc. has been designed which has been approved by the Institute Board of Siksha Bhavana in its meeting held on 13th October 2012. Subsequently, the Academic Council (Siksha-Samiti) approved in its meeting held on 16th November 2012. This course has been designed by Visva-Bharati for attracting talented and motivated students who would opt for science education and research as a career goal.

The centre has also started the Ph.D. programme in Physics (Spectroscopy, High Energy Physics) Chemistry (Electrochemistry, Material Science), Environmental Science (Hydrology, Water & Soil Pollution), and Mathematics (Computational Fluid Dynamics).

As per DST-INSPIRE FELLOWSHIP guidelines, students will be sent to different national institutes and universities like IIT-Bombay, IIT-Delhi, IIT-Guwahati, IIT-Chennai, IIT Kharagpur, and TIFR, Mumbai for doing their project work with their mentors.

Brief history of the development of the Centre/ Department concerned with an indication of the future plans for development.

University Grants Commission in its XI Five-Year Plan has accepted the recommendation of The High Level Committee (HLC)) as constituted by The Paridarsaka (Visitor) of Visva-Bharati University, The Honorable President of India to introduce a Five-Year Integrated Programme in Physical Science under Siksha-Bhavana (Institute of Science), Visva-Bharati. During last academic year, Life Science has been introduced to Five Year Integrated Programme. The course is intended for attracting highly motivated students to research and education in basic sciences. After successful completion of the course, a Five Year Integrated M. Sc. degree with Physics/Chemistry/Mathematics/Life Science major will be awarded to the candidates.

Any other relevant information:**Umesh Kumar Singh:**

Participated in 21st Refresher course in Environmental sciences at Academic Staff College, The University of Burdwan, during 22nd September to 12th October 2012.

Particulars in details of the Department Library:

- a. Area in (Sq. Meters) quoted for the library: Nil; At present the departmental building is under construction at the new Siksha-Bhavana Complex in Andrews Pally, Santiniketan.
- b. Is there separate provision for Reading room: No
- c. Total no of books: 250
- d. Total No of books purchased during the year: 78
- e. Total No. of periodicals: Nil
- f. Total No. of periodicals purchased during the year: Nil
- g. Total No. of readers: 40
- h. Total number of Books and Periodicals issued: 100
- i. Total No. of Staff members: Nil

KALA-BHAVANA (Institute Of Fine Arts)

Kala Bhavana- a brief introduction

Kala Bhavana is a premiere institute of visual art and design. Since its inception It has always played significant role in developing new ideas in the education of modern art in India. Rabindranath Tagore, Nandalal Bose, Benodebihari Mukherjee and Ramkinkar Baij had contributed richly to its artistic heritage with their creative excellence. Their international fame as artists of this institute has always attracted a lot of scholars and students from all over the world to come and study in Kala Bhavana. Currently Kala Bhavana has students, visiting artists and scholars coming from France, Korea, Thailand, Japan, China, Bangladesh, Mauritius and Srilanka apart from all corners of India.

The last academic year saw, as always a variety of events of academic and artistic interest organized by students and staff of Kala Bhavana. There were a number of workshops, lectures, seminars, exhibitions and cultural programmes with participation of eminent artists, scholars, faculty members and students of Kala Bhavana. The students and faculty members of this institute participated in numerous exhibitions, workshops, seminars, at National and International level. Many achieved distinctions, awards, and fellowships, like Junior Research Fellowship, UGC(NET), National Scholarship from Lalit Kala Akademi, foreign scholarships etc.

During the past year the Bhavana organized lecture demonstration workshops in various departments. Nandan Mela, to celebrate the Birthday of Nandalal Bose, was organised with great success. Navin Baran was celebrated with great fanfare to welcome the newcomers. The final examinations were completed successfully in the month of May preceding the summer vacation.

DEPARTMENT OF DESIGN

The Department of Design consists of two major design courses of studies, viz. the BFA/DFA, MFA/Advanced Diploma in Textile Design and BFA/DFA, MFA/Advanced Diploma in Ceramics and Pottery Design. Besides these two major courses, there are also the courses e.g. two years Certificate course in Design, One Year Foreign Casual Course in Design, and One Year Indian Casual Course in Design, offered under the same roof of the Design Department. In this year, the Department changes its academic syllabus in the Degree/Diploma, MFA/Advance Diploma level, keeping in view of the introducing of the semester system of courses and specially the incorporation of the Glass as a medium in the Ceramic Design Courses. The Department has a panel of expert teachers who have established themselves in their respective field of specializations with their outstanding creative performances. Ultimately the academic session of 2012-2013, has ended satisfactorily.

As like every year, Department has also organize Nandan Mela with active participation of the teachers and students with their works on the occasion of birth anniversary of Acharya Nandalal Bose, successfully. Beside, the schedule academic activities, the students have also participated in different workshops/Exhibitions, both indigenous and abroad.

The Department of Design, doing the silent task as the appropriate venue for certain courses which are not, provably offered in the Art Colleges elsewhere, such as courses in organic and traditional materials. The Department of Design is playing an important role in the contemporary creative activities in the field of Textile Design and Ceramic Design in the vibrant global market.

However, few important activities of the Department, apart from the academic activities may be mentioning worthily here e.g.

- Organizing lecture cum demonstration on "Ceramics in throwing technique" by a renowned Japanese Artist Mrs. Midoree, Sept, 2012.

- Organizing Inter Disciplinary Art Activities Workshop on "Kalam Kari and Vegetable Dyes ", Nov, 2012.
- Organizing Slide presentation cum lecture demonstration by a Mexican renowned Artist Mrs. Paloma, Jan, 2013.
- Organizing workshop cum lecture demonstration on "Glass Ceramic" for two days by Prof. Sisir Sahana, Feb, 2013.
- Apart from these the Department also organized many activities, like, floor and stage decorations in the event of different festivals and Dramas.
- Moreover, it is mentioned worthily that a French Student has joined in Master Degree Course of Textile Design as the candidate of the event of Inter-exchange academic programme in Semester Level, in this current academic year in the Department (Jan to Jun, 2013).

Extention activities/NSS/Cultural and other activities organized by the Department and participated by the Teachers and students of the Department.

Departmental Seminar (Speaker, Title of the Seminar) Should be National and International standard, Conference/Seminar/Workshop/Exhibition etc. attended by Teacher/Research scholars in details.

Sisir Sahana

- 1) Held solo exhibition of paintings " I Return " at Kalakriti Art Gallery , Hyderabad in Dec. 2012.
- 2) Participated in a group show "flavors of Hyderabad" in January 2012 .
- 3) Flame working workshop in glass in the Design department, Kala Bhavana in March.

Goutam Kumar Das

- 1) Invited to participate Indo Bongo (150th Rabindranath birth anniversary) International workshop at EZCC, Organized by Ministry of Culture Govt. of India, 2012.
- 2) Invited to participate in International workshop exhibition and festival at Namisiom Island, South Korea, September.
- 3) Visit Songhai University, China. 2012.
- 4) Invited to participate in International exhibition and cultural festival at the National Art Gallery, organized by the Indo Srilanka foundation at Colombo, Sri Lanka, October-2012.
- 5) Invited to participate 27th Asian International Art exhibition, organized by the Ministry of Culture Thailand, January-2013
- 6) Invited to participate an International Exhibition at Silpakorn University, Thailand-January 2013.
- 7) Invited to participate in the 9th Phochang International Art Festival, Workshop & Exhibition organized by The Raja Mangala University, Thailand-2013.
- 8) Participate in the 1st International workshop , presentation & exhibition organized by The Naresuan University , Thailand-2013.
- 9) My work published in International Design Trend , South Korea -2012.
- 10) My work published in International Design Trend, Malaysia-2013.
- 11) British Council invited for the Meeting to discuss their five years Art & culture Activities program at Kolkata, 2013 .

Prasun Kanti Bhattacharya

- 1) Invited as a Foreign Guest Professor for two weeks, in the "Art and Design" Faculty, for Seminar, Workshop, & Lecture Demonstration at Naresuan University, Thailand.
- 2) Lecture on Art & Design along with Video Presentation of my Art Works at Naresuan University, Thailand.
- 4) A Paper presented in seminar -"An Avant Garde and Nationalist Movement in India", along with video projection of slides of their Art Works with analytical discussion at Naresuan University, Thailand.
- 4) Lecture on Indian Traditional Textile Art in a seminar at Naresuan University, Thailand. The video projection of Indian Contemporary Fibre Art also presented in the same discussion.

Debashish Mahalanobish

- 1) Participated in the National level seminar and presented paper on 'Craft Tourism: scope for sustainable livelihood of

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folk/ tribal artists and artisans', organized by Kalamandir, Jamsedpur, Jharkhand, 2012.

- 2) Acted as external resource person and expert in the National level Workshop on 'vernacular Architecture based on folk/ tribal craft and painting --- tradition of Jharkhand' organized by Kalamandir, Jamsedpur, Jharkhand, 2012.
- 3) Participated in the National level Workshop on "Eco-friendly printing with natural dyes", organized by department of Silpa Sadana, Visva-Bharati, 2012.
- 4) Participated in the State level Workshop and Seminar, organized by Gurusaday Museum, Kolkata and presented paper on 'Alpana : the aura of the women's spirit', 12.
- 5) Participated in the Artist's Workshop (International level) organized by Kala Bhavana , 2012 as a part of 'Dhaka Santiniketan exchange programme'.
- 6) Participated in the Artist's Workshop (International level) organized by Department of Fine Art, University of Dhaka, 2012.
- 7) Acted as the member of the State Level Painting Competition on Energy Conservation, organized by D.V.C.
- 8) Participated in the National Level Seminar on 'Recent Trends in Geographical Research', organized by Foundation of Practicing Geographers and paper submitted on 'Galaxy of Temples at Khardah Village : inquisitive search by her son of the soil'.

Krishnendu Bag

- 1) Published four works in an Inter National Book Catalogue " KSDT" (Korer Society of Design Trens) held on 2013 Feb. 21th (Thu) to 25th (mon) at the International Design International Exhibition, Malaysia Art Gallery.

Debasish Das

Assistant Professor of Ceramic , Department of Design.

1. Participated in "Creative Idioms" a group show Curretted by Seema Subbanna. 2012. New Delhi.
2. Participated in "TOGETHER" - an exhibition of Paintings, Prints, Ceramics & Sculptures by Artists from Delhi, from 25th Nov. to 1st Dec. 2012, at LKA Galleries, New Delhi.
3. Participated in "Ghummakkar" - a group show of Modern & Contemporary Art, at LKA Galleries, New Delhi, from 27th Dec. 2012 to 2nd January 2013.
4. Participated in "Akhil Bharatiya (ceramic) Mati Pradarshani " at Bharat Bhavan, Bhopal on 15th February to 5th March.

Madi Linda

Assistant Professor of ceramic, Department of Design

- 1) Exhibition - National Art Exhibition on 2013. State Lalit Kala Academy.

DEPARTMENT OF SCULPTURE

Departmental seminar/Workshop (Speakers, Title of the Seminar, Date)

Lecture Demonstration and workshop (with Sculpture students) of Rubber Mould technique by Sculptor Sri Tapan Kumar Das from Indian Museum, Kolkata. from 7-12th February 2013

Only International Standard conference/seminar/workshop exhibition etc. attended by teachers/research scholars in Detail

- a) Sculpture students participated on a Sound Sculpture Project conducted by Italian Sculptor Bettino Francini from 5-19th March 2013
- b) Ms. Paloma Torres Estrada, an artist from Mexico pursued research and allied activities with some selected senior students of the Department followed by a presentation and talk on her work and contemporary Mexican Sculpture.

Pankaj Panwar

Professor, Dept. of Sculpture Workshop/symposium:

Invited participation

- Bangladesh - Santiniketan Artists workshop, organized by ICCR, Santiniketan.
- International Workshop on Printmaking with Thai, Chinese and Korean Artists at SSVAD, Santiniketan.
- Lecture Demonstration & conducted sculpture workshop at Doon School, Dehradun.
- National Scrap welding Sculpture workshop, Govt. of Hyderabad, Andhra Pradesh.
- 1st International Art Festival & workshop, Narishuan University, Thailand
- 9th International Art Festival & workshop, Poh-Chang Academy of Arts, Rajamangala University, Bangkok, Thailand.

Exhibitions:

- All India Art Exhibition, Academy of Fine Arts, Kolkata.
- "Celebration 2013 Kolkata" an Art Exhibition/Workshop/Seminar/Music/Film, at ICCR, Kolkata
- Delhi Art Summit 2013 (International Art Exhibition), Ganges Art Gallery.
- Contemporary Indian Art Exhibition, at the Danish Embassy, New Delhi.

Others:

- Member of the Jury, Annual All India Visual Art Exhibition, Academy of Fine Arts, Kolkata.
- Curated Sculpture Exhibition organized by Gallery Ganges, at ICCR, Kolkata.

Sumitabha Pal

Associate Professor

Invited Participation:

- Invited to an UGC Sponsored Interactive Seminar & Lecture on - "Pointing Method of Stone Carving", Organized by Government College of Art & Craft, Calcutta., 8th September- 2012
- International Workshop on Printmaking with Thai, Chinese and Korean Artists at SSVAD, Santiniketan, September 2012.
- Participated ECA Art Fair, organized by Emami Chisel Art, Kolkata, from 2nd - 4th November 2012.
- "CREATIVE CONFLUENCE" an Indian participation in Sculpture category for the 15th Asian Art Biennale, at Dhaka, Bangladesh from 1st to 31st Dec. 2012.
- "Celebration 2013 Kolkata" an Art Exhibition/Workshop/Seminar/Music/Film, from 30th March to 12th April 2013 at Rabindranath Tagore Centre, ICCR, Kolkata, organized by Prof. Dhiraj Choudhury collaboration with ICCR, Kolkata.

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Others:

- Members of the Expert Selection Committee as a Jury for Awarding Scholarship to the upcoming artists, for the Year 2012 -13, at Lalit Kala Akademi, Rabindra Bhavan, under Ministry of Culture, Govt. of India, New Delhi.
- Published paper / article for UGC Sponsored Interactive Seminar & Lecture on -"Pointing Method of Stone Carving", Organized by Government College of Art & Craft, Calcutta., September, 2012

Sutanu Chatterjee

Associate Professor

Participation in Workshops/Exhibitions

- Invited participation in National Sculpture camp (Stone) at J.J. School of Art, Mumbai. Organized by Lalit Kala Akademi, New Delhi. February, 2013
- Environmental sculptural Project using Recycled Scrap Equipment of Satyajit Ray Film & television Institute (SRFTI), Kolkata, for beautification of SRFTI campus (Installed Two Sculptures). January, 2013.
- Invited as a 'Resource Person' in the UGC Sponsored workshop in area of 'Glass Sculpture'. Organized by Government College of Art & Craft, Calcutta. - September, 2012.
- Invited to an Interactive Seminar and Lecture on -'Sushen Ghosh and his works'. Sponsored by UGC. Organized by Government College of Art & Craft, Calcutta.- 8th September- 2012
- Invited for visit the SRFTI to inspect the equipment scrap materials and advise them on the scope of the project for beautification.-September, 2012.
- Nepal-Santiniketan International One Day Painting workshop at Kala Bhavana,Santiniketan.- January, 2013
- "Celebration 2013 Kolkata" an Art Exhibition/Workshop/Seminar/Music/Film, from 30th March to 12th April 2013 at Rabindranath Tagore Centre, ICCR, Kolkata, organized by Prof. Dhiraj Choudhury collaboration with ICCR, Kolkata.

Others:

- Published paper / article for UGC Sponsored Interactive Seminar & Lecture on -"Bhaskar Sushen Ghosh", Organized by Government College of Art & Craft, Calcutta., September, 2012

Rishi Barua

Assistant Professor

Participation in Workshops/Exhibitions

- National Level Sculpture workshop at Silparamam, Hyderabad, organized by Dept. of Tourism., Govt. of Andhra Pradesh. August 2012
- International Workshop on Printmaking with Thai, Chinese and Korean Artists at SSVAD, Santiniketan, September 2012
- 9th International Art Workshop at Rajamangala University of Technology, Bangkok, Thailand followed by Art Exhibition at Poh Chang Academy of Art, Rattanakosin, Bangkok.
- 1st International Art Camp at Naresuan University, Thailand, followed by Art Exhibition with 100 International Artists at Phitsanulok, Thailand.
- Group Show at ICCR. Called 'Celebration 2013 Kolkata', sponsored by ICCR, Kolkata.

Kamal Dhar

Assistant Professor

- Completed Bronze casting relief work of Mahatma Gandhi by Ramkinker for IGNC A - New Delhi. - March, 2013.
- Completed life size Marble statue (Size- 6.3ft.) of Sri Satya Sai, for "Sri Satya Sai Foundation", Bangalore.

Amit Kumar Dhara

Assistant professor

- Nepal - Santiniketan International One Day Painting workshop, January, 2013 at Kala-Bhavana, Santiniketan.

Lawanshaibha Kharmawlong

Assistant Professor

- Participated in National Exhibition, organized by Lalit Kala Akademi, New Delhi, at Agartala, Tripura.-January-2013.
- Supervising departmental Multimedia Sculptural Workshop conducting by International Visiting Artist - Bettino Francini.
- Supervising Rubber Mould & casting method workshop conducted by Sculptor Sri Tapan Kumar Das from Indian Musium, Kolkata.

Ongoing Research projects

Bronze Casting of Gandhi Relief for Indira Gandhi National Centre for Arts, New Delhi.

Extension activities

- a) Ms. Paloma Torres Estrada, an artist from Mexico pursued research and allied activities with some selected senior students of the Department followed by a presentation and talk on her work and contemporary Mexican Sculpture.
- b) Sculpture students participated on a Sound Sculpture Project conducted by Italian Sculptor Bettino Francini from 5th-19th March 2013

A brief history on the development of the Bhavana/ Sadana/ Vibhaga concerned with an indication of the future plans for development.

Since the beginning of Kala Bhavana Department of Sculpture played an important role in the development of the institute as a centre for alternative art practice and set up a new platform in the context of Modern Indian art.

The Department attracts students from various parts of the country and abroad as well, such as countries like Japan, Korea, Thailand, U.K., France, U.S.A., Bangladesh, Mauritius, U.S.S.R., Srilanka etc.

DEPARTMENT OF PAINTING

Student qualified for UGC/CSIR/NET/SLET &GATE Examination- 02

Departmental seminar/Workshop

- a) Workshop Demonstration on Suiboku Media technique by Japanese artist Yuriko Lochan-, August, 2012 coordinated by Sanchayan Ghosh and Dilip Mitra .All Painting department teachers & Students participated.
- b) Presentation on Traditional & Contemporary Sara & Pat Painting of Bangladesh by Prof. Nissar Hussain (Department of painting, Dhaka Charukala Parisad, Dhaka University, Bangladesh. All Painting department teachers & Students participated.
- c) 'We were trying to make sense...' Exploring socially engaged art practices. A presentation by Magda Fabianczyk, Polish artist/Curator, 31.01.13. All Painting department teachers & Students participated Coordinated by Sanchayan Ghosh
- d) Presentation on Contemporary New Media and Interactive Art by Jesper Alvaer from Norway and Isabela Grosseova from Prague on 15th February 2013. All Painting department teachers & Students participated .Coordinated by Dharitri Boro
- e) Contemporary Performance Art in Japan, a presentation by Sheiji shimodo, reknown Japanese Performance Art artist from Japan in Department of Painting, Kala Bhavana, 2012. All Painting department teachers & Students participated. Coordinated by Sanchayan Ghosh
- f) Performance art Demonstration by Sheiji Shimodo renkowned Japanese Performance Art artist from Japan

National and International standard Conference /Seminar /Workshop/Exhibition etc. attended by Teachers/ Research scholar in details.

Nandadulal Mukherjee:

1. Participated Swami Vivekananda 150th birth centenary selibration exhibition-organized by R.K. Mission, Kolkata, 2012.
2. Participant & Exhibited painting at Emami Chisel Art Fair . Kolkata. 2nd -to 4th nov 2012.

Dilip Mitra:

1. Participated Indo - Bangladesh eminent Artist Workshop, at EZCC organized by Minitry of culture- 2012
2. Participated as a Resource Person, UGC- Sponsored Workshop on Natural Dye Painting organized by Govt college of art & craft, Kolkata- 2012
3. "Art in Santiniketan-to-day" a group show curated by Pranab Ranjan Roy, organised by Pegasus art gallery and Santiniketan art hub, part-I at the state art gallery, Hyderabad And part-II at Salarjung Museum, Hyderabad

Sitanshu Mukhopadhyay:

1. Participant & Exhibited painting at Emami Chisel Art Fair. Kolkata 2nd to 4th nov 2012.

Sanchayan Ghosh:

1. BorderLands, An ongoing Research and Workshop based art activity in collaboration with Anshuman DasGupta (pursuing PhD, Goldsmith UK) on the notion of territory in Enclaves of North East India, 2012-13
2. Presented Audio Visual presentation on Socially Engaged Art Practise in India, at School of Fine Arts, Mahatma Gandhi Institute (MGI), Moka, Mauritius, 17th October 2012
3. The Mahatma Gandhi (MGI) ,Mauritius invited as a International Visiting Faculty for period of 6 weeks, from 15 September 2012 to 31st October 2012 at the School of Fine Arts to teach the following modules of MA Visual Arts programme:-

MVA 5113 - Interdisciplinary Studio Practicum II

MVA 5217 - Critical Issues in Contemporary Art II

FINA 4112 - Painting - Experimental Studio I

4. Conducted workshop on Handmade paper making from natural fibre with MVA students of School of Fine Arts, Mahatma Gandhi Institute (MGI),Mauritius,2012
5. Participated as an Invited Artist in International Art Event, Kochi -Miziris Biennale, organised for the first time in India in Kochi,12/12/12/ to13/03/13
6. Incomplete Circles:Invisible Voices, Conducted a workshop Community based sound Art project and a Site specific Installation in Kochi as part of the Kochi-Muziris Biennale,India 12/12/12
7. Participated in the Homelands:Round Table Session on the closing day of the International Art Exhibition,Homelands at The Harrington Street Art Centre, Kolkata,to brainstorm five-year arts strategy ,organised by British Council Kolkata on14th March ,2013
8. Organised and participated in the Workshop with Nine MFA students Kala Bhavana from Shantiniketan, led by Dr. Anthony Haughey(artist and lecturer/researcher in the School of Media at the Dublin Institute of Technology,Dublin,Ireland)as part of the International Exhibition :Homelands, based on the Art collection of British Council UK, curated by Latika Gupta, New Delhi,3rd March,2013

Arghya Priya Majumder:

1. Participated Indo - Bangladesh eminent Artist Workshop, at EZCC organized by Ministry of culture- 2012.
2. Participant & Exhibited painting at Emami Chisel Art Fair . Kolkata.2nd -to 4th nov2012.
3. "Art in Santiniketan-to-day" a group show curated by Pranab Ranjan Roy, organised by Pegasus art gallery and Santiniketan art hub, part-I at the state art gallery ,Hyderabad And part -II at Salarjung Museum, Hyderabad.2012

Ambarish Nandan:

1. Participated in an International art show (Life on Wall) organized by Art family. At Birla academi, Kolkata,from 26th December 2012.
2. Participated in 4th State level art workshop(Painting) 2days at Bengal Fine Arts college, Chandpara, West Bengal,2012.
3. Participated in the National Level workshop on "Eco friendly printing with natural Dye" organized by Department of Silpa Sadana,Visva Bharati. 8- 9th December 2012.
4. Participant & Exhibited painting at Emami Chisel Art Fair . Kolkata.2nd -to 4th nov2012.

Prasanta Sahu :

2013 -"100 Years of Indian Cinema" - a group show at Sarjan art gallery, Vadodara.

2013 -"Confluence des Arts" -a group show at gallery art chill, Jaipur

2013 -" Modern and Contemporary Indian art Spring auction-a group show cum auction arranged by Sublime galleria and art Chutney, at Bangalore.

2013 -"India Today, Copenhagen Tomorrow"-a sculpture group exhibition at Denmark Embassy, New Delhi, Jointly organized by Gallery Espace, New Delhi andGanges art Gallery, Kolkata.

2012 -"Diverse Palette", - a group show at Exhibition Hall, Faculty of Fine Arts; M.S. University, Vadodara.

2012 -"art in Santiniketan-to-day" a group show curated by Pranab Ranjan Roy, organised by Pegasus art gallery and Santiniketan art hub, part-I at the state art gallery, Hyderabad And part -II at Salarjung Museum, Hyderabad

2012 -"Beneath the black", a group show at Gandhara art gallery, Kolkata

2012 -Emamichisel Art (ECA) Fair which held on 2nd to 4th November 2012 at Emamichisel Art Gallery, Kolkata.

Workshop:

2013 "Marve Camp" - at Mudh Island, Mumbai, organized by Vickram Sethi & Harsh Goenka.

2012 Art camp in Jaipur,Rajasthan ,at samode palace, organized by Ganges art gallery, kolkata

2012 Art camp with Indo-Bangladesh artists, part of Joint Celebrations (CUP) to commemorate the 150th Birth Anniversary of Rabindranath Tagore. Organised by Ministry of Culture, Government of India.

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Rajarshi Biswas :

1. 'Emerging artists' an online show organized by gallery Artalive, New Delhi, 2013.

Sk. Sahajahan

GROUP SHOW:

1. Annual Group Show at 'The visual Arts Gallery, Habitat Center, Lodhi road, New Delhi, organized by Chowla Art Gallery, on 11th to 30th April 2012.
2. A group show for Paritosh Sen memory, named 'As a tribute to the man & The Artist, Organized by The Harrington street Arts Center, Kolkata, on 28th September to 20th October 2012.
3. "Art in Santiniketan-To-Day" by eminent & up coming artists from Santiniketan organized by Pegusus art gallery & Santiniketan Art Hub, on 16th March 2012 at State Art Gallery, Hyderabad.
4. "Art in Santiniketan-To-Day" held at "SALAR JUNG MUSEUM", Ministry of Culture, Government of India, Hyderabad from 18th to 25th April 2012 on the occasion of "World Heritage Week".

International Group Exhibition

1. An International Group Exhibition organized by Brendra Gallery of Art, Talaimari, Manikmia road, Rajshahee, Bangladesh, March 2013.

Participating Art Fair

Emami chisel Art (ECA) Fair which held on 2nd to 4th November 2012 at Emami chisel Art Gallery, Kolkata.

Dharitri Boro

1. Performance at KIPAFa . 13th Feb 2013.
2. Performance at Gauhati Artist's Guild, under the production of KANKHOWA, House Bearer, Feb 2013.

On going research Projects in the department

Research projects	Duration	Name of the Teacher	Sponsoring Agencies	Amount	Proposed amount for continuing the project
Research documentation of Art and Architecture in Fort Cochin, Kochi, Kerala	2012	Coordinated by Sanchayan Ghosh	None		Self funded
Digitization of documents of Technique of Kerala Murals In Painting Department, Kala Bavana	2013	Prof.Nandadulal Mukherjee Ambarish Nandan	None		Self funded

Extension activities

- A project by the Painting Dept. on paper making exploring the Fibers of local plant & trees, November 2012.
- Laquer toy making workshop
- Sara painting workshop
- Enamel painting workshop

- Enamel paper waight
- Mask , Greetings card, Sticker making workshop
- Silk scroll and reverse painting workshop.

Designing New Course / Curriculum or any other teaching innovations introduced by the Department.

Basic knowledge on interactive media practice

- Introducing Video art (documentary based digital editing with ideas exploring soundscape and lighting)

A brief history on the development of the Bhavana/ Sadana/ Vibhaga concerned with an indication of the future plans for development.

Department of Painting, Kala Bhavana initiated by Nandalal Bose is one of most important centre of Modern art practice in India established as an alternative academic art center during the age of Victorian academism in the colonial rule. The Department has explored a contextual approach to the idea of Modernism keeping close contact with traditional art practice in India and Asia in particular and Europe in general. From its initiation, Far Eastern techniques of calligraphy, scroll painting, Indian miniature and various other mural techniques are being introduced to the students. New thoughts and ideas of contemporary discourses are introduced in the academic activity in the department that evolved into an unique eclectic practice of art teaching.

In the last ninety years the Department has not only emerged as a premiere centre of artistic innovations but also evolved as a new platform for contemporary art keeping close contact with the change in the global art phenomenon.

In the last two decades the world of art has drastically changed with the emergence of new communication systems in the age of globalization and contemporary art practice have also evolved into new systems of sign making deriving methods from the constantly expanding domain of heterogenic cultural encounters. In this respect the department is also adopting and implementing new methods of art teaching giving focus to inter-disciplinary art activity in reference to a critical approach to methods and ideas. This intermingling of the new methods and materials like new media has created a new environment in the department which is generating dynamic experiments and innovative practices.

In this respect Department is creating opportunities for the students to interact with practicing artists, art historians and art critics from all over the world by regularly inviting experts from various fields to give presentations and lecture demonstrations .

In the last one year experts from Poland, Norway, Czech Republic, Japan, Bangladesh visited the Department and shared their experience with the students & faculty members. The present focus of the department is to generate an environment of critical investigation into multiple forms of visual application and provide opportunities to engage in innovative experimentations to reflect new areas of artistic expression.

DEPARTMENT OF GRAPHIC ART

National and International standard conference/seminar/workshop/exhibition etc. attended by teachers/research scholars in details:

Nirmalendu Das

Exhibition:

1. Violence -Double spared from private to the Public ,to the life systems-at nandan art gallery and Exhibition at JNU Delhi-2012
2. Indo-USA Printmaking exhibition under the title of "Multiple encounters second Edition"-2012.
3. Eminent Printmakers of Bengal Chitrak Gallery Dhaka ,Bangladesh -2012
4. 150th Birth anniversary of Rabindranath Tagore, Exhibition of Prints, Drawings and Paintings of Selected Artists of Santiniketan and Mauritius -at RTI, Mauritius-2012

Workshop:

1. PRINTMAKING CAMP ,organized jointly by ART ,CULTURE & YOUTH DEPT.GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN,VISVA BHARATI 2012 .

Publication :

1. "Multiple encounters second Edition"- . Indo-USA Printmaking exhibition, catalogue. New Delhi, edited by sanhita bhowal article "Nirmalendu das in conversation with Sanatkar -PP22-27"
2. The embodied image Krishna Reddy curator, Roobina Karode, Article by Nirmalendu das "Krishna Reddy -in the History of Indian Printmaking "-IGNCA- New Delhi

Others:

1. Member of the advisory board art family and an international journal of art and aesthetics alighr, UP. ISSN, no. 2249-0248
2. Supervise the exhibition in commemoration of 150thBirth anniversary of Rabindranath Tagore, at the National Gallery of Modern and contemporary art , ROME -ITALY-2012
3. UGC sponsored career cancelling cum interactive program on art and practice -CAD ,University of Barddhaman -2012
4. Lecture demonstration on art and design at Naresuan University, Thailand-2012.

Pinaki Barua:

Exhibition:

Workshop:

1. PRINTMAKING CAMP, organized jointly by ART, CULTURE & YOUTH DEPT.GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN, VISVA BHARATI 2012 .

Ajit Seal

Exhibition:

1. Indo-USA Printmaking exhibition under the title of "Multiple encounters second Edition"-2012
2. Kala Mela 2012. CIMA art gallery, Kolkata

Workshop:

1. Printmaking workshop. Lalit Kala Academy, Regional Centre, Bhubhaneshwar.-Odisha-2013
2. Invitation for visiting faculty programme -Platography at S.N. school Hyderabad University Dept. of Fine Art.-2012.
3. Invitation judging committee for 35th Odisha Art exhibition State Lalit kala Academy -2012
4. PRINTMAKING CAMP ,organized jointly by ART ,CULTURE & YOUTH DEPT.GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN,VISVA BHARATI 2012 .

6. Art Fair Organized by Emami Chisel, Kolkata.2012.

Arpan Mukherjee

Exhibition:

1. Summer Show, Organized by Gallery 88, Kolkata.
2. 150th Birth anniversary of Rabindranath Tagore, Exhibition of Prints, Drawings and Paintings of Selected Artists of Santiniketan and Mauritius -at RTI, Mauritius-2012
3. 'Violence-Double Spread' an curated exhibition on violence, School of Art & Aesthetics, JNU, New Delhi
4. 'Charodhyay' a curated exhibition, organised by ICCR & S.F, Colombo, Srilanka.
5. 'Gum Bichromate' a curated exhibition of gum prints, curated by P.Madhavan/ Goa -Cap, Thalam, Bangalore.
6. Curate 'Bikshan Annual Photography Exhibition' 2013, Nandan Art Gallery, Kala Bhavana, Santiniketan

Workshop:

1. Printmaking workshop, organized by Dept of Culture, Govt of Bihar, Santiniketan.
2. Photography workshop, organized by Lalit Kala Academy, Bhopal.
3. Conducted workshop on Alternative Photography Printmaking, organized by Goa-CAP, Alt Lab, Goa.

COLLECTION:

1. Lalit Kala Academy , Bhubaneswar.
2. Goa -Cap alt Lab, Goa

Pulak Dutta

Workshop:

1. PRINTMAKING CAMP ,organized jointly by ART ,CULTURE & YOUTH DEPT.GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN,VISVA BHARATI 2012 .

Salil Sahani:

Exhibition:

1. Indo-USA Printmaking exhibition under the title of "Multiple encounters second Edition"-2012

Workshop:

1. PRINTMAKING CAMP, organized jointly by ART, CULTURE & YOUTH DEPT.GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN,VISVA BHARATI 2012 .
2. Art Fair Organized by Emami Chisel, Kolkata.2012.

Uttam Kumar Basak :

Exhibition:

1. UNITED ART FAIR , NEW DELHI 2012 .
2. Indo-USA Printmaking exhibition under the title of "Multiple encounters second Edition"-2012.
3. Art Fair Organized by Emami Chisel, Kolkata.2012. Participated in ETCHING Workshop from 5-11 Sept. 2012) of Kala Bhavana Faculty members.
4. Participated in Group show of Etching workshop held in Nandha Gellery from 27 Nov. 2012.
5. Exhibition printmakers of Bengal, Chitrak Gallery, Dhaka, bangladesh 2012.
6. Eminent Printmakers of Bengal, Chitrak Gallery, Dhaka, Bangladesh 2012.

Workshop:

1. All India senior Artist Camp, organized by A.I.F.A.C.S, New Delhi 2013
2. Regional Printmaking Camp, organized by LALITKALA ACADEMI, KOLKATA, at SANTINIKETAN W.B 2012
3. PRINTMAKING CAMP ,organized jointly by ART, CULTURE & YOUTH DEPT. GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN,VISVA BHARATI 2012

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COLLECTION:

1. Lalitkala Academy ,New Delhi-2013.
M.THOMAS SINGH :

Exhibition:

1. Group Shows in Delhi, Mumbai Chennai, West Bengal etc.

Workshop:

1. Eastern Regional Print Making Workshop Org. By RLKK, Kolkata in 2001
2. PRINTMAKING CAMP ,organized jointly by ART ,CULTURE & YOUTH DEPT.GOV'T OF BIHAR AND DEPT OF GRAPHIC ART, KALA BHAVANA, SANTINIKETAN,VISVA BHARATI 2012 .
3. Art Fair Organized by Emami Chisel, Kolkata.2012. All W.B. Teacher's/University Painting Workshop org. by Bengal Film Art College collaboration with U.G.C in 2009.
Collection : ABC India Pvt. Ltd., W.B. Information Centre

Prashant Phirangi :

Workshop:

1. 2012 Alumni Camp in M.M.K College of visual art, Gulbarga, Karnataka.
2. Participated 2012 national Level seminar on ' Installation art' at Gulbarga University, Karnataka.

DEPARTMENT OF HISTORY OF ART

No. of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations: 01 (UGC-NET)

Departmental Seminar (Speakers, Title of the Seminar, Date), Lecture: XXXX

National and International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research scholars in details:

R. Siva Kumar

1. Presented paper, 'From Meaning to Presence: Rabindranath's emergence as a painter', Seminar on Rabindranath Department of Cognitive Science, Jadavpur University, Kolkata, 9th April 2012.
2. Artists on Art: In conversation with K.S. Radhakrishnan, Lalit Kala Akademy, New Delhi, 21st April 2012.
3. Gallery Talk on Ramkinkar Baij, NGMA, Delhi, 22nd April 2012
4. Talk on Rabindranath and Modern Art, on the occasion of International Museums Day, Indian Museum, Kolkata 18th May 2012
5. 'Ramkinkar, Santiniketan and His Tryst with Modernism', National Gallery of Modern Art, Bangalore, June 17th 2012.
6. 'Rabindranath's Encounters with Modern Art and his Emergence as a Painter,' Coomarasawamy Memorial Lecture organized by the National Lalit Kala Akademi, at Jaipur Kala Kendra, 22nd Aug. 2012.
7. 'Art Pedagogy in Santiniketan' paper presented at SublimeExpressions: The Art Conclave, The International Centre Goa, 3rd and 4th October 2012.
8. 'Ramkinkar, Santiniketan and His Tryst with Modernism', National Gallery of Modern Art, Mumbai 8th November 2012
9. Panel Discussion on The Anxious Artist Today, organized by the Guild Gallery and Mohile Parikh Centre, Mumbai 9th November 2012.
10. 'Rabindranath and Art education at Santiniketan', Dhaka University, 12th January 2013.
11. Public conversation with Mustafa Zaman, Dhaka Art Centre, January 12th 2013.
12. 'From Meaning to Presence: Rabindranath's Emergence as a Painter', Bengal Foundation, Dhaka 18th Jan 2013.
13. 'Rabindranath's Photographic Self-presentations and Imagining of the Body in his Paintings', 4th DRS International Conference, Department of English and other Modern European Languages, Santiniketan 18 and 19th February 2013.
14. 'Rabindranath's Letters from Japan to Artists', presented at the international seminar on 'A Man of Letters: Rabindranath Tagore and his Epistles, Rabindra Bhavana, Santiniketan, 14-15 March 2013.
15. 'On Nilima Sheikh', Gallery Espace, New Delhi, March 16th 2013.
16. 'From Meaning to Presence: Rabindranath's Emergence as a Painter', Faculty of Fine Arts, M S University, Vadodara, 18th March 2013.

Soumik Nandy Majumdar

1. 'Receiving Art: Children as viewers' - paper presented at Sublime Expressions: The Art Conclave, The International Centre Goa, 3rd and 4th October 2012.
2. 'Looking at Art: Art Appreciation for children' - a talk at Art Initiatives Series -11, The International Centre Goa, 5th October 2012.
3. Two lectures on 'Modern Western Art', -- part of Art Appreciation programme, Pashchimbanga Charukala Parshad, Kolkata, 19th and 20th November, 2012.
4. 'Art of Benode Behari Mukherjee' - a presentation at Ramkrishna Mission Institute of Culture, Kolkata,

Sanjoy Kumar Mallik

1. Three day lecture series on Traditional Idioms in Early Modern Art: Case Studies - Abanindranath Tagore, Gaganendranath Tagore, Nandalal Bose, Benode Behari Mukherjee, Ramkinkar Baij, Jamini Roy, Rabindranath Tagore as part of their course titled 'Modern and Contemporary Indian Art History-1850-2011', Bhau Daji Lad Museum, Mumbai, 15th - 17th March 2013

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2. Presentation on the artist's oeuvre and a curatorial walk in the galleries in association with the curated exhibition "Gopal Ghose/a jubilant quest for the chromatic", NGMA, New Delhi, 15th & 16th January 2013
3. Presentation introducing two curated exhibition projects - (a) "Chittaprosad" (DAG, New Delhi) & (b) "Gopal Ghose" (NGMA, New Delhi) at the SN School of Arts & Communication, Hyderabad Central University, Hyderabad, 14th March 2013
4. Presentation introducing the curated exhibition project "Chittaprosad" at DAG, New Delhi at the Bhau Daji Lad Museum, Mumbai, 17th March 2013

Syed Parvez Kabir

1. Participated in the panel discussion organized by Amit Mukhopadhyay on the theme: 'Violence: Double Spread' at the School of Arts and Aesthetics, J.N.U, 5th October, 2012.
2. Worked as a Researcher and Resource Person as part of the Higher Education Program realized in the Kochi Muziris Biennale, curated by Bose Krishnamachari and Riyas Komu, Kochi, October 13-19, 2012.
3. Worked as an Executive resource person behind a photo mural executed by a team of five Artists at the Kochi Muziris Biennale, curated by Bose Krishnamachari and Riyas Komu, 22-27th March 2013.

Academic distinction

R. Siva Kumar

1. Curated the exhibition 'The Last Harvest: Paintings of Rabindranath Tagore' commissioned by the ministry of culture, Government of India opened at the NGMA Delhi on the 19th of Nov. 2012.
2. Manojmohan Smarak Puraskar, for the book Ramkinkar Baij, Pashimbanga Bangla Akademi Jan 2013.
3. Felicitated with a plaque of special honour by the Dhaka University Jan 2013

Publications within the year April 2011 to March 2012

R. Siva Kumar

Books:

1. Ramkinkar Baij, NGMA and Delhi Art Gallery, New Delhi, Nov. 2012. ISBN978-93-81217-24-5
2. The Paintings of Abanindranath Tagore, Popular Edition Pratikshan, Kolkata January 2013, ISBN 978-81-89323-49-3

Article:

1. 'The Arabian Nights and the Web of Stories', Art Etc., Kolkata June 2012, pp.26-29.
2. 'Mural Shilpy Subramanyan', Anustup, Vol 47, No. 1, Autumn 2012, pp. 851-864.
3. 'An Extraordinary Cohesiveness', Sudhir Patwardhan The Guild, November, 2012.
4. Preface to Between Darkness and Magic: Examining the Kerala Metaphor, CIMA Gallery, Kolkata, 7th Dec 2012 to 5th Jan 2013
5. 'A Celebration of this Oddly Mixed-up Scene', introduction to K G Subramanyan exhibition at the Focus Gallery, Chennai, Jan 2013.
6. 'Ramkinkar Baij and Modern Indian Sculpture', Take on Art, Vol. 3, No. 10, Jan 2013 ISBN 0976-4011, pp.32-35
7. 'Jogen Choudhury: Lyric and Enigmatic Visions', Jogen Choudhury Retrospective, Nandan Kala Bhavana, Santiniketan 11-28 February 2013, pp.4-8.

Soumik Nandy Majumdar

Books:

'In touch with the real - the art of Rafiqun Nabi' - a book co-authored with Syed Azizul Huq, published by Dhaka Art Centre, Dhaka, Bangladesh, 2013

Papers:

1. 'Utopia visualized: Paintings of Rabindranath Tagore', Utopias from Asia : East Asia Intercultural Studies, Ed. By Konrad Meisig, Wiesbaden, Germany, July, 2012. ISBN: 978-3-447-06794-2

2. 'Teaching art: In conversation with Jogen Choudhury', Jogen Choudhury Retrospective, Nandan Kala Bhavana, Santiniketan 11-28 February 2013.

Sanjoy Kumar Mallik

Book:

“Gopal Ghose/ a jubilant quest for the chromatic” - NGMA (New Delhi) & Akar Prakar (Kolkata) with MAPIN Publishers (Ahmedabad), 2013 [ISBN 978-81-8995-78-2(Mapin) & 978-1-935677-37-6 (Grantha Corporation, USA)]
(Supported by two complementary booklets on sketchbooks by the artist)

Articles:

Six introductory notes on individual artists/works-of-art, “Manifestations IX - 75 artists/ 20th century Indian art”, Delhi Art Gallery, New Delhi, 2013 [ISBN: 978-93-81217-33-7]

Parvez Kabir

1. Essay: "Reading Robot" in Art & Deal, Issue no. 50/ Vol.8/No 20/ August 2012

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with a indications of the future plans of development:

The Department of History of Art, Kala Bhavana, grew out of a long tradition of informal art discussions that was part of the teaching program of the institution since its inception. It became a formal subject of instruction and examination in 1957. In the 1960s and 1970s the faculty was strengthened and specialization in Art History introduced at the Graduate level. Post Graduation in Art History was introduced in 1979 and since then the Department has produced a small but well-recognized group of young art historians, many of whom are teaching in art institutions in India and abroad.

At present it has a faculty of relatively young art historians who have already gained peer recognition and made a mark on the Indian art scene through their writings. The faculty is especially strong in the study of 19th and 20th century art and the local traditions. The Department has been trying to build an archival documentation through its own resources and initiative, and intends to develop it into a full fledged Art History Resource Centre.

NANDAN, KALA BHAVANA MUSEUM

❖ Digitization/Documentation of Art Object	:	3148 Nos.
❖ Accession & Documentation of Art Object	:	1536 Nos.
❖ Conservation Related work of Art Objects		
(a) Curative Conservation	:	001 No.
(b) Insecticidal & Fungicidal treatment	:	333 Nos.
(c) Mounting with Acid free mount board	:	353 Nos.
(d) Condition Assessment of Art Object	:	014 Nos.

- Curator, Kala Bhavana was invited as a speaker in an International Conference on the Occasion of 150th birth anniversary of Rabindranath Tagore in Colombo, Sri Lanka - organized by ICCR, New Delhi & Indian Embassy in Sri Lanka on 11-12th June, 2012.
- Amulya Kumar Jena, Preservation Assistant, Kala-Bhavana participated in "Seminar cum Workshop for Conservation of Built Heritage (SWORCOBH)". Organised by West Bengal Heritage Commission, Kolkata. during 24-25th August, 2012.

❖ Distinguished Visitors

- (1) Mrs. Yuriko, Japan
- (2) Ms. Yamamoto, Japan
- (3) Mrs. Sujata Chowhan, MHRD, Delhi
- (4) Mayor, Sakura city, Japan
- (5) Mr. Shizno Tsunoda, Curator, Kampo Arai Museum, Japan
- (6) Dr. Ashok Das & Shyamali Das, Kolkata
- (7) Secretary, Atomic Energy, Delhi
- (8) Ms. Lekha Sarkar, Schweizer Radio
- (9) Mr. Ashis Anand, Delhi Art Gallery, Delhi
- (10) Mr. Martin de Rooij, Heidelberg, Germany
- (11) Ms. Regina Bittner, Bauhaus- Dessau, Germany

❖ Exhibition & Other activities at Nandan Gallery, Kala Bhavana Museum

- (1) Annual Exhibition of Siksha Satra, Sriniketan 06th September, 2012.
- (2) Exhibition of recent photographs, Siksha Bhavana students 13th September, 2012.
- (3) Art works of Sitthiporn Banjogetch, Thailand 20th September, 2012.
- (4) A Special Exhibition of Japanese Art 06th November, 2012.
- (5) Exhibition of Etching prints, Teachers & Staff, Kala Bhavana 29th November, 2012.
- (6) Annual Exhibition of Patha Bhavana, Santiniketan 06th December, 2012.
- (7) Retrospective Exhibition of Prof. Jogen Chowdhury 11th February, 2013.
- (8) An open session with Prof. Jogen Chowdhury, 23rd February, 2013.
- (9) Annual Exhibition of Photography, Bikshan, Santiniketan 07th March, 2013.
- (10) Group Exhibition of 3rd year students, Kala Bhavana 21st March, 2013.

SANGIT BHAVANA

SANGIT-BHAVANA : AN INTRODUCTION

Sangit Bhavana as an Institute of Music, Dance & Drama under Visva-Bharati University is absolutely unique in nature as much as in its regular involvement in organizing functions and festivals e.g. Bengali New Year day and Tagore's birth day, 7th Pous, Festival of the rains, Tagore week, Tree Planting Ceremony, the Autumn festival, Spring festival as well as weekly Mandir Services (Upasana) etc., as laid-down in the statutes of the University since the time of Rabindranath Tagore. Innumerable other musical soirees are also presented in honour of respected guests of the University, seminars of other depts., throughout the year. The pressure is primarily on the dept. of Rabindra Sangit and also partially on the dept. of Dance, all of which fall within the dept. of Rabindra Sangit, Dance & Drama. These are activities which lie outside the syllabus of the institute but are integrated factors which help our students to become acquainted with stage performance and become individual performers in later life. This is also considered as an essential aspect which uplifts the traditional idea of Tagore which has become absolutely essential for the entire country at present.

It's Achievements

Regarding achievement of Sangit-Bhavana, it is worth to be specially mentioned that, on the occasion of Rabindranath Tagore's 150th birth anniversary Sangit-Bhavana has organized, conducted and performed numerous cultural programmes, Seminars etc.

ACHIEVEMENTS AND HERITAGE OF THE DEPT. OF HINDUSTHANI CLASSICAL MUSIC (VOCAL & INSTRUMENTAL)

Gurudev Rabindra Nath Tagore, in his education system, had introduced Music & Dance as compulsory subject in academic curriculum since the inception of 'BrahmaVidyalaya' at Santiniketan in 1901. From that time Brahma Sangit and Rabindra Sangit were taught to the students. The renowned poet, Ajit Chakraborty took charge to teach the students Brahma Sangit. Dinendra Nath Tagore, Rabindra Nath's nephew, trained them in Rabindra Sangit. Sometimes, Guru Dev himself taught the students. After a few years he realized that without the training of Hindusthani Classical Music, the students can never learn music properly. Moreover, Guru Dev himself hailed from such an illustrious family of Jorasanko at Kolkata, where Hindusthani Classical Music was compulsorily taught to every member of Tagore family. In this connection, the Bengali Dhruvad maestros, Visnu Chakravorty (1804-1900 A.D.) and Jadu Bhatta (1840-1933 A.D.) and later other Ustads were appointed to train up the youngsters and youth of this family in Hindusthani Classical Music. Guru Dev, out of love and respect for Hindusthani Music, also appointed Bhimrao Hasalkar, a Marathi Ustad, for Brahma Vidyalay, Santiniketan. After 5 years, in 1919, Nakuleswar Goswami of Visnupur Gharana, a close relative of Kshetramohan Goswami was appointed to train up the Boys in Hindusthani Classical Music. Latter Gurudev built a separate Music department named 'Gandharva Bhavana' better known as Sangit-Bhavana in 1933 where Dance was also included. The Manipuri Dancer Buddhi Monta Singha, originally from Tripura, was called by Gurudev from Jorasanko to train up the boys and girls.

Since then, the Institute of music, Sangit-Bhavana, has been imparting training to its students in particularly in three different streams i.e., Rabindra Sangit, Hindusthani Classical Vocal, Instrumental and Percussion Music & also Kathakali and Manipuri Dance. We take pride that under the guidance of our sincere and learned teachers many boys & girls has obtained National Scholarships, National Fellowships, Doctoral Degrees, Distinguished positions in different Music competitions of National level and are serving as teachers in Musical Institutions all over India.

No. of students qualified in UGC/CSIR/NET/SLET and GATE Examinations. - 09

Departmental Seminar (Speakers, Title of the Seminar, Date).

Conference/Seminar /Workshop/Exhibition etc. attended by the Teachers/Research Scholars in details;

Ch-II

T.S.Vasuni

1. Seminars Presentations: Classical dance forms on Rabindranath Tagore's compositions from 13-15th March, 2012, Organized by Sangit bhavana.
2. Participated and Presented a paper " Abinaya in Kathakali' extersion Programme 23rd to 25th March,2012 Organized by Sangit-Bhavana.

Kaberi Kar

1. Presented solo classical vocal (Dhrupad) at Azad Bhavana Auditorium, New Delhi organized by ICCR on April, 2012.
2. Gave interview with demonstration on D.D.Bharati channel telecast from Delhi Doordarshan on the topic " Mahila Dhrupad Gayikaon Ka Samgam" at Bhupal From 4th July to 7th July, 2012 organized the seminar by international school at Dhrupad "Dhrupad Samsthan" Bhupal
3. Performed Dhrupad recitael organized by Gopeswar college of Music at Bishnupur on 14th June, 2012.
4. Performed at two day's national seminar organized by (IGNCA) Indra Gandhi National Cultural Academis at Delhi on 28th July 12.
5. Performed solo perogramme on the memory at Ustad R.F Dagar at I.C.C.R Kolkata on 16th September, 2012
6. Delivered a lecture with demonstration about "Dagar Gharana" by U.G.C sponsored Seminar at Rabindra Bharati University on September, 2012.
7. Joined as a Resource person in the workshop organized by "Pamaga Naidu College of Music under Burdwan University
8. Received honour as a senior most female Dhrupad Singer of India from Rajasthan Sangit Academy at Jaipur on December 14th 2012.

Sabyasachi Sarkhel:

- I) Visited Mauritius, delivered lecture demonstration & conducted workshops in the Department of Performing Arts at Mahatma Gandhi Institute, University of Mauritius From 3rd to 16th June'2012.
- II) Delivered lecture demonstration as a resource person in the U.G.C. Seminar of Padmaja Naidu College of music. University of Burdwan on 28th and 29th September'2012.
- III) Performed Sitar recital at Door-darshan(DD Bangla) on 28.08.2012.
- IV) Published one article named "Amar Guru Sangitacharya DhruvaTara Joshi" on Lok Bharati Patrika, July-September'2012 (ISSN No 2277-5889).
- V) Attended Akashvani Sangeet Sammelan,2012 held on 29th September'2012 at Gitanjali, Santiniketan.

Smt. Basavi Mukerji:

- 1) Performed Khayals for AIR, Delhi. (2). Participated as observer at International Seminar on Folk Classical Music of Asia at Delhi University, Delhi. (3). Performed as Solo artiste at Thumri Festival of ICCR at Varanasi.

Buddhadev Das

- 18/07/2012 TV Recording in Esraj Solo recital at Santiniketan Door- Darshan for DD Bangla (Kolkata).
- 25/07/2012 TV Recording Accompanied in Esraj with Rabindra Sangitin at Santiniketan Door Darshan for DD Bangla (Kolkata).
- 21/09/2012 Radio Recording (Esraj Solo recital) Prasar Bharati All India radio Kolkata. Broadcasted on 01.10.2012.
- 25/09/2012 to Cultural Exchange program by Visva-bharati in Srilanka Tagore Dance Drama : "Shap Mochan " was performed By Sangit Bhavana in Hillwood College Auditorium at Kandy & John De Silva Memorial hall At Colombo,Sri Lanka.
- Tagore Dance Drama : " Chandalika" was performed by Siksha Satra in Hillwood College Auditorium at Kandy & Ram Krishna Mission at Colombo,Srilanka.
- 13/10/2012 to Invited by "Santiniketan Friends" in Srilanka and performed Esraj Solo recital in The Inaugural
- 19/10/2012 Music Festival at John de Silva Memorial hall and National Art gallery Colombo, Srilanka.

- 18/10/2012 Invited, and took part a lecture demonstration Esraj in Workshop in the University of Visual and Performing arts, Colombo, Sri Lanka.
- 17/12/2012 Accompanied in Esraj with Sangit Bhavana, which performed Tagore dance drama "Chandalika" in 11th Indo-German academy CSIR organized by ERI, Durgapur
- 14/02/2013 Performed Esraj solo recital in Classical Music Concert at Mandirtala, Shibpur, Howrah.
- 03/03/2013 "Poetry Festival" Dedicated in the memory of Sunil Gangopadhyaya at Lipika Santiniketan Organized by Ministry of culture government of India. And collaboration with Sahitya Akademy and Adhyapak sabha Visva-Bharati. Accompanied Esraj in Rabindra Sangit.

RAJESH MENON.N

Attended a UGC Sponsored Refresher course on 'Theatre and Performing Arts (Dance)' at Manipur University Seminars presentations: - Conducted and presented a paper a seminar on 'Origin and development of Kathakal' at Academic staff college, Manipur University.

Others:-(Public Display)

- 1) Bhavabhavanam Kathakali festival organized by Kalashetra Chennai -Sept. 2012.
- 2) 'Swaralaya Dance festival' Palakkad - October-2012
- 3) Mothera Dance Festival October-2012.

MANOJIT MALLICK

1. Performed in Classical Music Concert at Birla Academy arranged by Kolkata Music Forum" in June 2012.
2. Performed solo recital of 90 minutes in the National Programme of All India Radio New Delhi which was broadcasted on 17th February 2013.
3. Performed and recorded one hour performance in the programme on " Kalyan Ki Prakar" (a software project of A.I.R. Kolkata) on February 2013.
4. Performed in Classical Music Concert arranged by Akashvani Nagpur on 19th March 2013 at Sai Sabhagriha Shankarnagar Nagpur Maharashtra.

RAJESH.K.V

1. Technical Director of Pt Jasraj Music Concert in Visva-Bharati on 30th January, March 2013.
2. Technical Director of National Women's Theatre Festival Organized by Visva-Bharati and Rangakarmee on 22nd to 25th March 2013.
3. Lighting Designer of Physics Department Cultural Programme in Visva-Bharati on 20th Feb 2013.
4. Lighting Designer of Hindi Sahitya Sammelan Cultural Programme in Visva-Bharati on 16th March 2013.
5. Lighting Designer of Philosophy Department Cultural Programme in Visva-Bharati on 30th March 2013.

PERFORMANCE-

- Performed in National Seminar on "Impact of Rabindranath on Indian Literature" organized by Bhasha Bhawan, Visva-Bharati, Santiniketan on 7th & 8th March 2013.
FOUNDER EDITOR-IN-CHIEF: Launched Sangeet Galaxy, the first refereed E-Journal dedicated to Indian Music, (ISSN: 2319-9695) in October 2012 as Editor-in-Chief. (www.sangeetgalaxy.co.in).

PRASANTA KUMAR GHOSH

Associate Professor, Rabindra Sangit

- a) Participated and Performed in the Workshop on "Guru Shisya Parampara" under Ustad Ashis Khan and Pandit Swapan Chowdury, Organized by the Sangit Bhavana, Visva-Bharati, Santiniketan on 17-20 December, 2012 at Sangit Bhavana and Lipika Auditorium, Santiniketan.
- b) Participated and Performed in the two day International Seminar on "Tagore and His Global Vision : Forging Bonds with the World" Organized by the Department of History, Visva-Bharati, Santiniketan under the auspices of the ICSSR, ICHR and Visva-Bharati on 14-15 January 2013 at Santiniketan.

Ch-II

- c) Performed Rabindra Sangit (SOLO) at Rabindra Bhavana, Bilaspur, organized by S.E.C.L, BILASPUR, CHARTRISGARH, on 3rd November, 2012.
- d) Directed and Performed as a main Singer in Tegore's Dance Drama "SHAPMOCHAN" at SRI LANKA by the invitation of "Hillwood College, Kandy" of Sri Lanka on 29th September, 2012.
- e) Directed and Performed as a main Singer in Tagore's Dance Drama "SHAPMOCHAN" at John De Silva Auditorium, Colombo, SRI LANKA 3rd October, 2012.
- f) Performed Tegore's Dance Drama "CHANDALIKA" at C.M.E.R..I Auditorium, Durgapur on the occasion of International Conference of C.M.E.R.I, on 14th December, 2012.

ESHITA CHAKRABORTY

1. Chairperson in National Seminar on "Shastriya Sangeet ka badalta swarup evam isme yuva kalakaron ki bhumika" on April 2012 (20th & 21th) at Jamshedpur Music College, Jamshedpur.
2. Refresher Course 21st November - 11th December 2012, University of Madras, Chennai.
3. National Seminar at Kanpur on "Teaching methodology and techniques of Present day music education" - 6th Oct 2012
4. International Seminar on "Values and Contemporary Culture: Indian Perspective" jointly organised by the Council for Research in Values & Philosophy, Washinton D.C., USA & Department of Philosophy & Comparative Religion, Visva Bharati, Santiniketan - 14th Jan & 15th Jan 2013
5. National Seminar at Kanpur on "Uttar Bharat ki bivinna dharmik paramparaon me Sangeet"- 22nd January 2013 Scholarship interview duty
6. Workshop on Guru Shishya Parampara (Acharya Allauddin Khan Music Centre) by Ustad Asis Khan & Pandit Swapan Chowdhury at S.B. 17th - 20th Dec 2012

Paper Presentation

1. "Young generation towards classical music tradition" at National Seminar organised by Department of Music, Jamshedpur Music College, Jamshedpur
2. "Rhythm makes life musical or Music makes life rhythmic" paper presented for UGC sponsored Refresher Course by University of Madras, Chennai
3. "Bangalir Jeevanprobahe Ramprasadi ShyamaSangit" paper on a religion oriented book "Influence of Nazrul ShyamaSangeet in tradition of Bengal humanism" at National Seminar organised by Department of Music, Dayanand Girls P.G.College, Kanpur
4. "Present day music education - A target through technich.com" at National Seminar organised by Department of Music, Dayanand Girls P.G.College, Kanpur

Mousumi Roy

1. Presented a programme of "Ghazal and Semi Classical Music" on 19th September 2012 at the Rumi Seminar on "Revisiting rumi's Mystico-Humanistic Thought in Modern Times' Organized by the Institute of Persian Research Aligarh Muslim University, Aligarh.
2. Presented paper in international seminar on 'Sources of Indian History and Culture' held in Rampur Raza Library from 2-4 November 2012.
3. Completed Refresher Course in Music held at Kerala University during 5-25 March, 2013.

P. Mukunda Kumar

1. Attended at Academic Staff College Kerala University 5th March to 25th March 2013.
2. Conducted and presented a paper for a seminar on "Navarasas in Kathakali" at Academic Staff college, Kerala University on 12th March 2013.
3. Performed as an artist in Kathakali at Kathakali Club, Kannur, Kerala on 24th October 2012.
4. Performed as an artist in Kathakali at U.W.S.Kalanilayam, Thrisur, Kerala on May 28th 2012.
5. Performed as an artist in Kathakali at the Senate hall Kerala University, Trivandram on 23rd Mar5ch 2013.

Amit Kumar Verma
RESEARCH PAPER

- "Devdasi Pratha : Kal Aaj Aur Kal" published in Sangeet Galaxy E-Journal in ,Vol.1, No. 1, October 2012. (www.sangeetgalaxy.co.in)

Some of them are as follows:-

Cultural Programmes

- 1) Performed Rabindranath Tagore`s Dance-Drama "Shapmochan" on 29th September, 2012 at Kandy and 2nd October, 2012 at Colombo in Sri Lanka.
- 2) Participated in the programme of lecture on "Tagore`s Model of Holistic Education" delivered by respected Upacharya Prof. Susanta Dattagupta along with Tagore-songs and dance. This programme was held at:
 - A. Bose Institute, Kolkata on 26.11.2012
 - B. Uttarayan complex, Santiniketan on 19th December, 2012 in presence of His Excellency, Sri Pranab Mukhopadhyay, President of India and the Paridarshaka (Visitor) of Visva-Bharati on the occasion of the inaugural programme of Centenary Celebrations of the award of Noble Prize .
 - C. On the occasion of the Centenary celebrations of the Indian Science Congress at Aikatan, Eastern Zonal Cultural Centre, Kolkata on 6th January, 2013.
 - D. Natyaghar, Santiniketan on 18 February, 2013.

Seminars

1. A vast and important project on Kalanukramik Rabindra-Sangit has been taken by the Dept. of Rabindra Sangit, Dance & Drama Sangit-Bhavana and the work has already been started from 10.09.2012.
2. GURU SHISYA PARAMPARA WORKSHOP Organized by "Acharya Allauddin Khan Music Centre", Sangit-Bhavana, Visva-Bharati, Santiniketan was held from 18th. December to 20th December, 2012, conducted by Ustad Ashish Khan and Pandit Swapan Chowdhury.
3. During 02.03.2013 to 31.03.2013 Mr. Weerasena Gunathilaka and Mrs. Nalini Gunathilaka of Srilanka visited Sangit-Bhavana, Visva-Bharati and conducted work-shop on Rabindra-Sangit & Kandy Dance of Sri Lanka.

**VINAYA-BHAVANA
(INSTITUTE OF EDUCATION)
DEPT. OF EDUCATION**

A brief history of the Department of the Bhavan/ Sadan/ Vibhaga concerned with an indication of the future plans for development :

Vinaya-Bhavana called as Institute of Education started functioning as a craft oriented teacher training institution in 1948 before the recognition of Visva-Bharati as a Central University and an Institution of National Importance by an Act of Parliament, Government of India in the year 1951. Keeping pace with the changing time and needs this institution has always made an effort to strike a balance between the professional and liberal dimensions of education by way of integrating teacher education, extension education, work education, education and physical education. Department of Education offers one-year B.Ed. teacher training programme, two-year M.A. Education programme and Ph.D programme in Education. Department of Physical Education provides three-year B.A./B.Sc(Hons) in Physical Education, one-year B.P.Ed., and two-year M.P.Ed teacher training programmes along with Ph.D in Physical Education.

National and International standard Conference / Seminar/ Workshop/ Exhibition etc attended by teachers / Research Scholars in details :

K.C.Sahoo,
Associate Professor

Key Note Address in the National Seminar

1. Attended and Delivered the Key Note Address in the National Seminar on Peace Education organized by the STTC and the Department of Education, SKB University, Purulia, West Bengal on 12th April 2013
2. Attended and delivered the Key Note Address " Aligning SSA With RTE : Between The Lines of Pledge & Practice" in the National Seminar on SSA: A Challenge for the New Era at Nilamani Mahavidyalaya, F.M. University , Odisha during 15-16 Dec 2012

National Seminar/ Workshop Attended and Paper Presented

1. Attended and participated in the National seminar on "Constructivist Approach in School Learning' organized by the Sikshan Mandir , Ramakrishna Mission, Belur , Howrah, West Bengal in collaboration with Satya Priya Roy college of Education, Kolkata during 6th & 7th March 2012 .
2. Acted as a Resource Person and delivered a lecture on " Mass media: Optimizing Instructional Role" in the IGNOU workshop at ACTC, Jalpaiguri on 21st May 2012
3. Acted as a Resource Person and delivered their lectures in the IGNOU workshop at ACTC, Jalpaiguri from 28th June 2012 to 30.6.12
4. Attended and delivered a Lecture on "Essay Test in Tertiary level- An appraisal in Hi-Tech Era" in the National Seminar at Motto +3 Degree College, Bhadrak on Dt. 31.03.2013 & 01. 04. 2013.
5. Attended and delivered a Lecture on Quality Inputs for Teacher Education as the Chief Guest in the National Seminar on Strategies for Enhancing Quality in Teacher Education organized by the HKC, Gangtok, Sikkim on 29-30 Apr 2013

S.K.Rath

Assistant Professor

National Seminar Attended & Paper Presented

1. Attended and presented a Paper entitled "Philosophy of Education" in the State Level Teachers' Training Program me organized by Utkala Shiksha Parishada, Bhubaneswar, Odisha held at D.O.V. Balashrama, Godisahi, Keonjhar, Odisha from 26th to 29th December , 2012.

2. Attended and presented a Paper entitled "Relevance of Indian Educational Philosophy in B.Ed. Curriculum" in the National Sanskrit Seminar on Shikshashastrapathyakrame Bharatiasampratyayanam Samavesha organized by Rashtriya Sanskrit Sansthan (Deemed University)Shree Sadashiva Campus, Puri' held at Puri, Odisha from 20th to 21st February, 2013.
3. Attended and presented a paper entitled "Paramparagatashastriya-anusandhane Sankhyashastrasya Anuprayoga" in the National Seminar on Paramparagata Shastro me Vaijnanka Shodhapavidhi Ka Anuprayoga organized by Department of Vaidic Darshna, B.H.U. Varanasi (U.P.) from 22nd to 24th February,2013.
4. Attended and presented a paper entitled "Bhashashikshane Pathyasamagri" in the National Seminar on Teaching Materials for Sanskrit at Different Levels organized by Rashtriya Sanskrit Vidyapeetha, Tirupati (A.P.) from 08th to 09th March,2013.

Prohlad Roy,

Assistant Professor

INTERNATIONAL SEMINAR:

1. Participation and paper presentation "Aesthetic and philosophy: A culture approach" in international seminar on 'Values and contemporary culture: Indian perspectives' on 14.01.2013 to 15.01.2013 at Deptt. Of Philosophy & Comparative religion, Visva-Bharati.

National Work Shop:

2. Attended and participated in the UGC sponsored National Work Shop on Statistics, organized by Surendranath College Raiganj, Uttar Dinajpur, W. B during September 05, 2012 to September 12, 2012

Asheesh Srivastava

Assistant Professor

Participation and Presentation in National and International Conference/ Seminar/Workshop/Exhibition.

- i. Participated and Presented a paper titled 'Indian Universities: Where We Are?' in an International Seminar on 'Professional Development of Teachers' held on 17-18 Nov. 2012 organized by The Learning Community, India and held at S.C.Bose Institute of Higher Education, Lucknow.
- ii. Participated and Presented a paper titled 'Quality Inputs at Secondary Education' in a Regional Seminar on 'Issues, Concerns & Challenges in Implementing RMSA in N-E Region' held on 12-14 Mar. 2013 organized by NERIE (NCERT), Shilong.

Sarita Anand

Assistant Professor

Participation and Presentation in National and International Conference/ Seminar/Workshop/Exhibition

1. Participated in National Seminar on "Woman in Ancient Texts" organized by Women's Study Centre held on March 8th (International Women's Day), 2013 at Lipika Auditorium, Visva-Bharati.
2. Paper presented entitled "Effective Teaching Strategies" in 62nd Orientation Course on Sept. 27, 2012 at ASC, BHU.

M. S. Siddiqui

Assistant Professor

National and International Conference/ Seminar/Workshop/Exhibition/OP

- i. Participated and presented a paper entitled 'From Asfalasafileen to Ahsanitaqweem: Rethinking Islamic Philosophy of Education' in an International Seminar at Nayab Abbasi Girls (P.G.) College, Amroha, M.J.P. Rohilkhand University, U.P., organised by AIAER, during June, 9-11, 2012.
- ii. Participated and presented a paper entitled 'The Legacy of Indian Education and Human Development: Rethinking the Ideals of Higher Learning in Global Context in an International Seminar at Vivek P.G. College, Bijnor, M.J.P. Rohilkhand University, U.P., organised by Vivek College of Education, during November, 25-26, 2012.

Ch-II

- iii. Participated and presented a combined paper entitled 'Purification of Behaviour: A Sufi Approach to Ensure the Essence of Quality in Higher Education in an International Seminar at Vivek P.G. College, Bijnor, M.J.P. Rohilkhand University, U.P., organised by Vivek College of Education, during November, 25-26, 2012.
- iv. Participated and presented a combined paper entitled 'Politics of Religious Fanaticism in Post Independent India: Researching the Diabolism of Communal Violence' in a National Seminar at Allahabad University, U.P., organised by Rajiv Gandhi Chair, University of Allahabad, during November, 21-22, 2012.
- v. Participated and presented a paper entitled "Alaikum bil qawareer' (Take Care of Women as You Take Care Glass Products): Status, Rights and Role of Women in Islam in a National Seminar at R.K.G. Educational College, University of Lucknow, organised by Department of Education, on December, 9th, 2012.
- vi. Participated and presented a paper entitled 'Marginal Cost of Economic Development: The Developmental Strategy with Educationally Deprived National Minority' in an International Seminar at Jamia Millia Islamia, New Delhi, organised by Centre for Jawaharlal Nehru Studies, during March, 5-6, 2013.
- vii. Participated and presented a paper entitled 'The Crisis of Modernity: Education, Environment and Sustainable Development in a National Seminar at Visva-Bharati, Santiniketan, organised by Department of Environmental Sciences, on March, 9th, 2013.
- viii. Participated in Short term Programme on ICT in Education, organised by UGC Academic Staff College, University of Lucknow, during November 5th to 11th, 2012.
- ix. Completed 110th Orientation Programme organised by UGC Academic Staff College, University of Lucknow, during December 1st to 31st, 2012.
- x. Participated and presented a paper entitled 'Education and Empowering the Villages: Towards Sustainable Development' in a National Seminar at Visva-Bharati, Santiniketan, organised by Department of Social Studies and Rural Development, Palli Charcha Kendra, Sriniketan during 22-23 March, 2013.

Sharmila Yadav

Assistant Professor

Participation and Presentation in National and International Conference/ Seminar/Workshop/Exhibition/OP

1. Presented a Paper in the International Seminar on Managing Behavioural Problems of Students through Teaching and Parenting, held at Constitutional Club, Delhi, from 10th to 11th September, 2012.
2. Participated and Organised a Regional Workshop for Childrens' Magazine in collaboration with NCERT, New Delhi at Deptt. Of Education, Vinaya-Bhavana, Visva-Bharati, Santiniketan, from 19th to 21st February, 2013.
3. Participated in a National Seminar on "Role of Women in Ancient Texts" organised by Women's Studies Centre, Visva-Bharati, Santiniketan on 8th March, 2013.
7. Academic Distinctions gained by Teachers / Scholars or the Department as a whole (like recognition as D.S.A. or C.A.S. etc.) : --

P. Roy

Assistant Professor

was Awarded with 31st Bharat- Bangladesh (International) Gunijon Sambardhana (19th May Bhasa Shahid Award) 2012 from Uttar Banga Natya Jagat, W.B. India and Adwaita Mallabarman Birth Centenary Award 2013 by Adwaita Mallabarman Educational Research Centre, Kolkata, W. B.

Sukla Bhattacharya

Associate Professor

Published a Book on "Environmental Education: The Contemporary Phase" with ISBN No.-978-3659221217 -LAP Lambert Academic Publishing (August 21, 2012) Germany.

K.C.Sahoo

Associate Professor

Significance of Oral Data- Types of Primary and Secondary Source and Teaching-Learning Resources in Social Sciences in the Textbook on Pedagogy of Social Sciences being published by the NCERT, New Delhi

Trishna Banerjee

Assistant Professor

"Madhyajugiyo Bharate Sri Chaitanyadeber Bhaktibadi Chetona O Shamprodayik Shompriti Shadhona Tanr Abodan" (in Bengali). Published in MS Academic (ISSN: 2229-6484), an international, multidisciplinary, refereed journal, Vol. 3. No. 1. Feb-March, 2013.

Prohlad Roy

Assistant Professor

RESEARCH BOOKS (INTERNATIONAL PUBLICATIONS):

1. Roy, Dr. P. (2013 January). Paradoxical view and Content Analysis in Quality Education. LapLambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-32859-6
2. Roy, Dr. P. (2013 January) Educational Thoughts and Philosophy of Rabindranath Tagore. LapLambert Publication, , AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-32371-3
3. Roy, Dr. P. (2013 January) Education for Dalit. LapLambert Publication, , AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-32181-8
4. Roy, Dr. P. (2012 November) Secondary Education Comparative Delineation LapLambert Publication, , AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-29784-7
5. Roy, Dr. P. (2012 October) Language Teaching, Curriculum and Problems An Analysis LapLambert Publication, , AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-29113-5
6. Roy, Dr. P. (2012 October) Human Rights in Ancient Indian Society An Educational Retrospect LapLambert Publication, , AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-27747-4
7. Roy, Dr. P. (2012 September). Primary Education A Comparative Appraisal LapLambert Publication, , AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, ISBN 978-3-659-27503-6

RESEARCH BOOKS (NATIONAL PUBLICATIONS):

1. Roy, Dr. P. (2012). Absurd psychology and modern Bengali poetry. Laxmi Books Publications, Maharashtra. ISBN 978-81-92843-2-0
2. Roy, Dr. P. (2012). Development of Mass Education the contribution of HariGuruchand. Laxmi Books Publications, Maharashtra. ISBN 978-81-92843-1-
3. Roy, Dr. P. (2012). The voice of Time Educational and Social thoughts. Laxmi Books Publications, Maharashtra. ISBN 978-81-92843-0-6

BOOKS (BEING EDITOR):

Expression: Education, Literature, and Society, Laxmi Books Publication. Solapur, Maharashtra. ISBN 978-81-924687-8-5

Ch-II

RESEARCH ARTICLES (INTERNATIONAL JOURNALS):

1. Roy, P. (2012), Barber Culture: A Newsworthy Advance of Bolpur Town. Review of Research, Maharashtra vol. 1. Issue XII ISSN 2231-506
2. Roy, P. (2012), A Compendium of Expedition of 'Paribrajak' Vivekananda: A Religiously Geographer. Review of Research, Maharashtra: Vol.1, Issue VIII, ISSN: 2249-894X
3. Roy, P. (2012), The Life of Muchi: A Socio-cultural Survey. Golden Research Thought, Maharashtra: Vol. 1, Issue VII, ISSN: 2231-5063
4. Roy, P. (2012), The Status of language learning in education Sphere. Review of Research, Vol.1, Issue VII, Maharashtra: ISSN: 2249-894X
5. Roy, P. (2012), Human Status in Later Vedic Era: Study From Manusamhita. Indian Stream Research Journal. Maharashtra. Vol 2, Issue IV, ISSN: 2230-7850
6. Roy, P. (2012). Education for All: A Novel Phase in Contemporary Education. Research Analysis and Evaluation. Rajasthan: Rajbil Pub., Vol. III, Issue 28. ISSN: 0975-3486
7. Roy, P. (2012). The Circumstances of Language Teaching in West Bengal. International research & Review. Rajasthyan: RAE publication Vol.I, Issue 1, ISSN: 2250-2556.
8. Roy, P. (2012). Folk-Culture in Vedic Literature. Indian Stream Research Journal. Indian stream Research journal. Maharashtra. Vol. 1, Issue XII, ISSN: 2230-7850

CONTRIBUTED IN CHAPTERS OF DIFFERENT BOOKS

1. Janasikshay Lok Sangit : Bikash o Gurutta. (2013) Expression: Education, Literature, and Society (ed), Laxmi Books Publication. Solapur, Maharashtra. ISBN 978-81-924687-8-5
2. Rabindra Nritya Manipuri o Gaurio Vaishnav Nitirer Prabhav. (2013) Expression: Education, Literature, and Society(ed), Laxmi Books Publication. Solapur, Maharashtra. ISBN 978-81-924687-8-5
3. Bipannya Jol, Bippana Jati (2013) Expression: Education, Literature, and Society(ed), Laxmi Books Publication. Solapur, Maharashtra. ISBN 978-81-924687-8-5
4. Jiban Kendrik Siksha O Rabindranath (2013) Expression: Education, Literature, and Society (ed), Laxmi Books Publication. Solapur, Maharashtra. ISBN 978-81-924687-8-5
5. Nari Sikshar Alope Mankumari Basu (2013) Expression: Education, Literature, and Society (ed), Laxmi Books Publication. Solapur, Maharashtra. ISBN 978-81-924687-8-5
6. Roy Prohlad (2012). Bhasha Samtras: Bipanna Banglabhashi. 'Violence: Its representation. August 2012. Academic staff college (UGC), Burdwan university, ISBN 978-93-80663-64-7

Asheesh Srivastava

Assistant Professor

Publication/Book/Research Papers/Articles/Book Chapter

- i. "Teacher Education @ Tagorian Thought", The Journal of Advance Education, ISSN 0974-6498, Vol. 8, No. 1, March, 2012, p. 38-43.
- ii. "Rethinking Development of Tribal Education", Shodha Samiksha: National Journal of Research in Education & Sanskrit, ISSN: 2249-5045, Vol-1, Issue-2, Jul-Dec 2011, Page 48-55.
- iii. Book Chapter on "Neo-Realistic Undercurrents in Secondary Education Commission (1952-53): An Analysis" in an edited book Titled 'Prospects and issues concerning education at secondary level', ISBN: 978-81-921743-8-9, 2012, published by Manas Publishers & Distributors, Jaipur, India.
- iv. "Movement for Globalizing Next Generation Education@ ICT", "Education India Journal: A Quarterly Refereed Journal of Dialogues on Education", An on-line, e-Journal, ISSN: 2278-2435, Vol. 2, Issue 1, Feb. 2013.

Sarita Anand

Assistant Professor

Paper entitled EFFECTIVE TEACHING-LEARNING STRATEGIES IN THE FUTURE CLASSROOM published in Journal of Humanities and Life Sciences, Issue-1, Vol.2, 2012, pp. 27-35, (ISSN 2248-9673).

M. S. Siddiqui

Assistant Professor

- i. 'From Asfalasafileen to Ahsanitaqweem: Rethinking Islamic Philosophy of Education with reference to Present Pendimnium' Published in a book, 'Emerging Issues and Challenges in Education' edited by Garima Tyagi, ISBN 81-7487-808-4, New Delhi: Radha Publications.
- ii. 'Changing Scenario of Women Development: Emerging Partnership in Economic Development and Challenges Ahead' Published in a Book 'Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization, Edited by P.K. Chattopadhyaya ISBN 978-93-81274-25-5 New Delhi: New Delhi Publishers.
- iii. Ensuring the Quality of Hearts for Imparting Quality Education: A Sufi Approach to Teacher Training, Published in PANORAMA-An Education Journal (Vol-2) 2011 ISSN 2230-9101, Kanpur: CSJM University.
- iv. Pedagogy of Vedanta: The Education of Body, Mind and Spirit, Published in a Book 'Modern Perspective on Vedanta' Edited by G.N. Jha ISBN-812460639-0 New Delhi: D. K. Print World.
- v. 'Coming Across The 'Crescent Moon': Tagore's Treatment to Child Education' published in 'RESEARCH TODAY'- A Peer Reviewed (Open Access) Journal of Language and Literature ISSN 2278-7585, <http://www.researchtoday.in/> Vol. 1 Issue 3 Jan/Feb 2013
- vi. 'Virtual Effects with Virtuous Personality: A Sufi Approach to the Ethical Aspects of ICT in Education' published in Bhattar College Journal of Multidisciplinary Studies ISSN 2249-3301-A print and online open access journal <http://bcjms.bhattercollege.ac.in> Volume II, December, 2012
- vii. 'Pedagogy of the Making of Man: The Legacy of Teacher Education in India' Published in a Book 'Teacher Education in Twenty First Century Edited by R.L.Nikose, ISBN-978-93-313-1946-3 New Delhi: APH Publishing Corporation.

DEPARTMENT OF PHYSICAL EDUCATION

The Department of Physical Education is now a constituent part of Vinaya-Bhavana (Institute of Education), Visva-Bharati. Since the inception of the Brahmacharyaasrama in Santiniketan in 1901, Games and Sports were integral part of education. The traditional programmes of physical activities, games and sports underpin the development of the Department of Physical Education in Visva-Bharati in due course of time. The Department introduced 3-year Bachelor Degree programme (B.P.E.) in the year 1997-98; 2-year Masters programme (M.P.E.- NCTE recognized) in 2001-02 and offered 4-year B.A.(Honours), B.P.Ed. (NCTE recognized) degree in 2002-06. At present, the Department of Physical Education, Vinaya-Bhavana runs the following degree programmes:

Sagarika Bandyopadhyay

- a. National (2013): Participated and presented paper entitled "Empowerment of Women and National Development" in the National Conference on 'Role of Women in National Development in the New Millennium' held at Pt. Ravishankar Shukla University, Raipur, CG during 10-12 January, 2013.

Samiran Mondal

International (2013)

- a. Invited lecture on 'Science of Exercise : Ancient Indian Origin, Global conference on Traditional Physical Culture, Sport and Game, HVPM, Amravati, Maharashtra, India; 15 to 17 January, 2013.

National (2013)

- a. Chaired in the session No : 2 and invited lecture on "Ancient India and the development of exercise science", National Seminar on Physical Education for Health, Wellness, Fitness and Social Integrity"; Dept of Physical Education, Haldia Government College, Purba Medinipur, West Bengal; 22 & 23 March, 2013.

Ratnesh Singh

International Conferences/Seminar

Global Conference on Traditional Physical Cultures, Sports and Games Sports and Exercise Psychology, "Relationship of Selected Anthropometric & Kinematic Variables to the Technique of Front Foot Off Drive in Cricket", HVPM, Amravati, 2013.

Mahesh Sawata Khetmalis

International

- a. International Seminar on Physical Education, Recreation & Yogic Sciences, 'A Comparative Study of Mental Toughness of Volleyball & Football Players of Visva-Bharati, Santiniketan', BHU, Banaras, 2012.
- b. Global Innovations, Strategies & Policies in Physical Education & Sports Sciences, 'Psychomotor Education in Primary School Children: An Experimental Research', GKV, Haridwar, 2012.

National

- a. National Conference on Role of Physical Education & Yoga for the Welfare of Society, 'Growup Fit prepare Fit Generation by Moulding Today', M.M. Nilanga, 2012.

International

- a. Global Conference on Traditional Physical Cultures, Sports and Games Sports and Exercise Psychology, 'A Study of Psychomotor Education in Pre School Children', HVPM, Amravati, 2013.
- b. Asia-Specific International Conference on Sports & Exercise Psychology, 'A study of Psychomotor Education in School Children', Nagpur, Feb-2013.

National

- a. National Seminar on Fitness Yoga & Rehabilitation, 'A Study of Psychomotor Education in Pre School Children', LNUPE, Gwalior, 2013

5. Ongoing Research Projects in the Department

Brajanath Kundu

- a. Miss Sangita Bose, 'Identification of Talent of Female Volleyball Players: An Exploratory Study',

b. Name of Supervisor : Dr Sagarika Bandyopadhyay

Name of Project:

- 1) "Study on Health Related Fitness and Psychosocial Wellbeing of Mid Age Women"- a project jointly with M.U.C. Women's College , Burdwan

- 5) "A Cross Sectional Study on Anthropometric Variables and Motor Attributes of School Children".

Sponsoring Agency and amount : UGC; Rs. 1,41,500.00

Samiran Mondal

- a. Principal Investigator, UGC Minor Research Project (Rs. 1,10,000), A study on neuropsychological profile of Indian football players

- b. Co Investigator, UGC Minor Research Project (Rs. 1,48,800), Physical fitness profile of Indian Handball players

- c. Self Financing, Science of exercise : Ancient Indian origin and modern relevance

Mahesh Sawata Khetmalis

- 1) UGC, Sponsored, 'A Comparative Study of Psychomotor Components & Emotional Intelligence of Students Belonging to Teachers Training Institutes of Physical Education in West Bengal'

Samiran Mondal

A. National

- a. Life Member, National Association of Physical Education and Sport, HVPM, Amravati, Maharashtra, India.

- b. Executive Member, West Bengal Council for Institute of Physical Education (WBCIPE).

- c. Member, National Association of Physical Education and Sports Science (NAPESS).

- d. Editor, Indian Journal of Yoga, Exercise and Sport Science and Physical Education, 2012 (ISSN : 0975-265X).

- e. Peer Reviewer, Unmesh : A Journal on Physical Education (ISSN : 0974-9829)

B. International

- a. Member, Asian Traditional Sports Games Association (ATSGA)

- b. Member, International Traditional Sports Games Association (ITSGA).

Ratnesh Singh

- a. Member of Editorial Board of the Indian Journal of Yoga Exercise & Sport Science and Physical Education (ISSN 0975- 265X).

Mahesh Sawata Khetmalis

- a. Peer Review Committee Member of International Journal of Physical Education and Sports, ISSN No. 2277-5447, 2012.

Brajanath Kundu

- a. "Prediction Model To Estimate The Peak Expiratory Flow Rate of Healthy Indian College Male" in the Asian Journal of Health, Physical Education & Computer Science in Sports, Vol.7, pp.138-141, 2012.

- b. "Physical Fitness differences among National level Talented Female Volleyball Players" in International Journal of Health Physical Education & Computer Science in Sports, Vol. 8, No. 1, pp.103-110, 2012

Ch-II

Sagarika Bandyopadhyay

- a. Sentu Mitra, Sagarika Bandyopadhyay and Arup Gayen "Effects of Plyometric Training and Resistance Training on Agility of Basketball Players", International Online Physical Education & Sports Research Journal: Academic Sports Scholar: Vol. 1 , Issue. 12 , March 2013; ISSN : 2277-3665
- b. Bandyopadhyay Sagarika and Chowdhury Biplob "Osteoporosis and its Non-pharmacological Management", Vyayam Vidhyan, Vol-45, No.3, August 2012, p29-36. ISSN: 0975-8895.
- c. Bandyopadhyay Sagarika and Chaudhary Binod "Effects of Selected Asanas and Kriya on Cardiopulmonary and Body Composition Variables", Akash - Journal of Physical Education, Sports and Yoga Sciences Vol.1, No. 2, April-May, 2012, p 11-15.

Ashok Kumar Goon

- a. Dr. Ashok Kumar Goon & Dr. Kollol Chatterjee, "Effect of Induced Fatigue of Different Duration on Selected Psycho-Motor Components" UNMESH ,PGGIPE, Banipur, Vol.7, No. : I & II, 2011, ISSN : 0974 - 9829
- b. Dr. Ashok Kumar Goon & Dr. Kollol Chatterjee, " A Study on Balance and Orientation Ability after Induced Different Duration of Fatigue on University Level Volleyball Players" , UNMESH, PGGIPE, Banipur, Vol.8, No.: I & II, 2012, ISSN : 0974 - 9829
- c. Dr. Khushal Singh Bisht, Dr. H.S.Papola & Dr. Ashok Kumar Goon, "Effect of Diurnal Variation on Selected Physical, Physiological and Psychological Variables of School Children" , Indian Journal of Movement Education and Exercises Sciences (IJMEES), January 2013, Bi-annual Refereed Journal, Online ISSN 2249 - 6246 Print ISSN 2249 - 5010.
- d. Dr. Meera Devi Shukla, Dr. Ashok Kumar Goon ,Abhishek Kumar Yadav & Supriya Mondal, "Comparison of Ex-Post Facto Effect of Gymnastic, Yoga & Mallakhamba Activities on Flexibility", Proceedings of National Seminar on Fitness, Yoga & Rehabilitation, "Latest Innovations in Fitness, Yoga & Rehabilitation in the Modern Era", February 2013, Gwalior, Organized by Deptt. Of Health Science & Fitness, LNUPE, Gwalior.

Sumanta Kumar Mondal

- a. Opinion of the Players towards the Development of Table Tennis in Indian School, UNMESH, A Journal of Physical Education, Vol & No. I & II, 2012, ISSN No. 0974-9829 (Joint publication)
- b. Survey of Players Opinion towards Development of Table Tennis Standard in India, WELLNESS, Journal of Health, Physical Education and Sports, Vol. 4 No.1 Jan-June, 2012 , ISSN No. 0975-136X (Joint publication)
- c. Comparison of Emotional Intelligence between Sports Achievers and Academic Achievers of various Professional Courses, AMASS, , A Multilateral Research Journal, Bi-lingual Bi-Annual, Reg. No. UPBIL/2009/29672, ISSN No. 0975-3966, Vol. 4, No.1, May-June-2012. (Joint publication)
- d. Comparison of Personality Traits between Sports Person and non Sports Persons, Pantnagar Journal of Research, Vol . 10 (2), July-December 2012, ISSN No. 0972-8813, (Joint publication)
- e. Relationship between Horizontal Velocity and Vertical Velocity for Front Row Spiking in Volleyball, Pesy, Journal of Physical Education Sports Management and Yogic Science, Vol. 1, No.1 July-September 2012, ISSN No. 2278-795X, (Joint publication)
- f. Personality of Sports and Academic Achievers: A Comparative Study, Vol. 12 Issue. 1, Jan-June 2012, ISSN No. 0976-1101, (Joint publication)
- g. Journal of Educational Chronicle, An International Journal of Education, 'Comparative study of Mental Toughness between Basketball and Volleyball players of Visva-Bharati, Santiniketan', Vol-1, No.2, june, 2011, ISSN-2229-6220.
- h. Akash, Journal of Physical Education sports and yoga sciences, 'General motor performance determinants of soccer players in different field positions', Vol-1, no.2, april-may 2012, ISSN-2250-1398.
- i. Akash, Journal of Physical Education sports and yoga sciences, 'Relationship of physical performance capacity to self confidence and memory retention of visually challenged children', Vol-1, no.2, april-may 2012, ISSN-2250-1398.

Samiran Mondal**A. International**

- a. A study on physiological health, health habits, daily physical activity status and presenteeism (Job productivity loss) in an university worker. *International Journal of Sports and Health Education*. Vol-1; Issue 2; June, 2012. pp 8-19. ISSN : 2278-0645.
- b. Effect of functional training on physical fitness components on college male students - a pilot study : *IOSR Journal of Humanities and Social Science*. Vol-1; Issue-1; Sep-Oct, 2012. pp 1-5. ISSN : 2279-0845
- c. Growth status of school children : a survey report from school of West Bengal : *International Journal of Physical Education health and Sports Sciences*. Vol 01; Issue 1; September, 2012. pp 18-24. ISSN : 2279-0306.

B. National

- a. Effect of twelve weeks of yogic training on general immunological health variables in a middle aged group : *Yoga Mimamsa*. Vol-XLIV; No-1; April 2012. pp 1-19, ISSN : 0044-0507.
- b. Effect of yogic asana on health related physical fitness in school children : *Yoga Mimamsa*. Vol. XLIV; No. 2; July, 2012. pp 83-100. ISSN : 0044-0507
- c. Physical exercise in the ancient Indian Literature. *Vyayam-Vidnyan*. Vol 45; No 3; August, 2012. pp 1-6. ISSN : 0975-8895.
- d. Yoga applied to competitive sports performance : a critical appraisal. *Research Bi-Annual for Movement*. Vol 29, No 1, October, 2012, pp 36-47. ISSN : 0973-1989.

Ratnesh Singh

- a. *International Journal of Sports & Health Education*, Vol.1, Issue 1, Jan.2012, "Relationship of Selected Kinematic and Anthropometric Variables to the Technique of Front Foot Straight Drive in Cricket. pp: 40-51".
- b. *Indian Journal of Yoga, Exercise, Sport Science and Physical Education*, Vol-6, 1, 2012, "Kinematic Analysis and Relationship of Backlift to the Technique of Front Foot Straight Drive in Cricket".
- c. *AMASS Multi Research Journal Bi-lingual Bi-annual*, Dec. 2012, "Comparison of Emotional Intelligence Between Cricket and Football Players".
- d. *Pantnagar Journal of Research*, "Comparison of Mortality Among Agriculture, Veterinary and Engineering Students".
- e. *Pantnagar Journal of Research*, "Comparison of Personality Traits Between Team Sports person and Non Sports person".

Mahesh Sawata Khetmalis

- a. *Indian Journal of Movement Education & Exercise Sciences*, 'Comparison of Selected Coordinative Abilities and Motor Abilities of Female Athletes of Selected International Schools in Pune', Vol. 2, No. 1, Jan-Jun 2012, 88-95. ISSN NO. 2249-6246.
- b. *International Interdisciplinary Research Journal*, 'Relationship of Self-Esteem with the Performance of Contact & Non-Contact Sports', Vol. 2, No. 2, Mar-April 2012, 51-56. ISSN NO. 2249-9598.
- c. *International Interdisciplinary Research Journal*, 'Effect of Ujjayi and Bhastrika Pranayama on Selected Physiological Variables of Physically Challenged Students', Vol. 2, No. 2, Mar-April 2012, 173-177. ISSN NO. 2249-9598.
- d. *International Journal of Behavioural Social and Movement Sciences*, 'Comparison of Aggression between Team and Individual Game Players', Vol. 1, No. 2, April 2012. ISSN NO. 2277-7547.
- e. *AMASS Multi Research Journal Bi-lingual Bi-annual*, 'Comparison between Selected Coordinative Abilities and Motor Abilities of Female Athletes of Selected International Schools in Pune', Vol. 4, No. 1, May-June 2012, 72-80. ISSN NO. 0975-3966.
- f. *Sportica - An International Research Journal in Physical Education & Education*, 'Comparison of Aggression between Team Game Players and Individual Game Players', Vol. 3, June 2012, 102. ISSN NO. 0977-0279.
- g. *Capital Bi annual Journal of Physical Education & Sports*, 'Comparative Study of Mental Toughness between Volleyball and Football Players of Visva-Bharati, Santiniketan', Vol. 1, No. 1, July 2012, 69-70. ISSN NO. 2277-8519.
- h. *International Educational E-Journal*, 'Knowledge and Attitude of Professional Students towards Drug Abuses and Smoking', Vol. 1, No. 4, July-Aug-Sep. 2012, 66-72. ISSN NO. 2277-2456.

Ch-II

- i. Lokavishkar International E-Journal, 'Development of Norms for Selection of Senior Volleyball Players in Maharashtra', Vol. 1, No. 3, July-Aug-Sep. 2012, 17-21. ISSN NO. 2277-727X.
- j. International Journal of Physical Education, Fitness and Sports - IJPEFS, 'Comparison between Selected Coordinative Abilities and Motor Abilities of Female Athletes of Selected International Schools in Pune', Vol. 1, No. 3, Sep. 2012, 1-08. ISSN NO. 2277-5447.
- k. International Interdisciplinary Research Journal, 'Development and Standardization of a Test Battery for Selection of Football Players', Vol. 2, No. 5, Sep-Oct 2012. ISSN NO. 2249-9598.
- l. Indian Journal of Movement Education and Exercise Sciences, 'To Investigate the Psychological Aspects of Male Maharashtra State Volleyball Players', Vol. 2, No. 2, July-Dec. 2012. ISSN NO. 2249-6246.
- m. Indian Journal of Movement Education and Exercise Sciences, 'Relationship between Foot Length, Length of Longitudinal Arch Ratio to the Performance of Vertical Jump', Vol. 2, No. 2, July-Dec. 2012. ISSN NO. 2249-6246.
- n. Indian Journal of Yoga, Exercise & Sport Science and Physical Education, 'An Experimental Approach to Psychomotor Education In Preschool Education', Vol.6, No. 1&2, 2012. ISSN NO. 0975-265X.
- o. International Journal of Physical Education, Health and Social Science, 'Awareness of aids in Undergraduates of Santiniketan, West Bengal', Vol.2, No.1, Jan-2013. ISSN NO. 2278-716X.

PALLI SAMGATHANA VIBHAG
RURAL EXTENSION CENTRE
(Department of Adult Continuing Education & Extension)

Rural Extension Centre (REC) is one of the oldest departments under Visva-Bharati. It has been actively engaged in improving the condition of the villagers since its inception. Over the years the Centre has been giving emphasis on extension programmes to encourage the villagers to become self-reliant through formation of Village Development Societies, Self-Help Groups, Youth Organizations, Mohila Samities (women's forum). From inceptions this department has been playing the role of advocacy for the co-operative way of living with integration, local initiatives, local leadership and local self governance in every aspect of public life.

Operational Area of Rural Extension Centre:

Blocks Covered: 2 (Two), 1) Bolpur-Sriniketan 2) Illambazar
 Gram Panchayats: 8 (Eight)

Name of the Panchayats: Under Bolpur-Sriniketan Block: 1) Raipur-Supur 2) Konkali 3) Sattore 4) Kosba 5) Sain-Muluk
 6) Ruppur 7) Albandha-Sorpalehna

Under Illambazar Block: 8) Illambazar.

Total villages Covered: 50 (Fifty)

Nature of villages in terms of Caste domination:

- a) Number of ST dominated villages: 09 (Nine)
- b) Number of SC dominated villages: 04 (Four)
- c) Number of Minority dominated villages: 06 (Six)
- d) Number of Mixed caste villages: 31 (Thirty one)

Among the manifold and multifaceted activities of REC the following are the most important:-

I) Village Development Societies:

Village Development Societies at a Glance:

Types of Village Development Societies	Number covered	No. Of Villages Registration Act	Societies under
Youth Societies	37	39	37
Mohila Societies	10	10	2
Health Society	1	1	1

The area of operation of the department is now extended over 50 villages under 8 Gram Panchayats in 2 Blocks namely Bolpur-Sriniketan and Illambazar in Birbhum district. Out of those 50 villages, a total 41 Village Development Societies (VDS), 10 Mohila Samities and 1 Health Society is organised and motivated to initiate the reconstruction activities in the villages. These village development societies are the focal point of services of Rural Extension Centre. For the purpose of proper monitoring and effective supervision of the programmes & to carry out the extension activities effectively in the villages, 05 meetings have been conducted with the secretaries of VDS last year. All extension programmes of the department are being implemented through active co-operation of Village Development Societies. During this year, financial assistance was given to 21 VDSs for the construction, electrification, repairing of society buildings, purchase of essential materials etc. Village Development Societies are also facilitated with partial financial assistance for conducting cultural programmes, health awareness programmes, sports and other extension programmes in their respective villages by involving local people, resources and institutions.

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The villages were grouped under Cluster approach. The name of the five clusters are Rathindra, Kabiguru, Pratimadevi, Elmhirst, Kalimohon and all these clusters have conducted their meetings on regular intervals to plan and execute developmental activities in collaboration with the department.

II. Mahila Samities (Women's Forum):

Mohila Samities at a Glance

No. of Mahila Samities	No. of villages covered	No. of registered	Members societies	No. of activities organized
10	10	2	350	5

Women empowerment is the prime attention area of Rural Extension Centre since its early days. The need for formation of Mahila Samities in the villages had been felt long ago since the time of inception of Rural Extension Centre.

Addressing different health & social issues concerning women in the villages is one of the works of Mahila Samitis. Besides, they have the key role to plan and implementation of different developmental programmes in villages. Presently, this department has 10 Mahila Samities in the operational areas. In connection with women empowerment, different types of awareness and training programmes have been conducted with active support of the Mohila Samities. Mahila Samities in different villages are used to observe Barsha Mongal, Briksharopon & Rakhi Bandhan programmes in their respective villages. During last year 3 meetings have been conducted in the villages.

III. Brati Organisation:

Brati at a Glance

	Number of Brati dal			Number of villages covered	Number of members		
	Male	Female	Mixed		Male	Female	Total
03	05	08		16	140	180	320

Rural Boys and Girls between 9 and 14 years of age are mobilised into groups and motivated for welfare activities. The objectives of the programme are: -

- To develop the spirit of Community Services.
- To undertake physical exercise to make a sound body with a sound mind.
- To develop an awareness of natural equilibrium & environment education.
- To develop leadership qualities through group dynamism.

Caste wise composition of Brati Dal in villages

Sl. No.	Name of the villages	No. of Brati Dal	Boys				Girls				Total			
			SC	ST	OBC	GEN	SC	ST	OBC	GEN	SC	ST	OBC	GEN
1.	Binuria	3	15	5	6	4	12	4	10	4	27	9	16	8
2.	Bahadurpur	1	-	-	-	-	10	-	4	6	10	-	4	6

3.	Lohagarh	1	-	-	5	5	-	-	6	4	-	-	11	9
4.	Mahula	1	3	2	2	3	4	-	3	3	7	2	5	6
5.	Mahidapur	2	2	-	8	10	3	-	7	10	5	-	15	20
6.	Nurpur	1	10	-	-	-	10	-	-	-	20	-	-	-
7.	Rajatpur	1	3	-	2	5	2	-	3	5	5	-	5	10
8.	Paruldanga	1	4	-	2	4	3	-	3	4	7	-	5	8
9.	Sukhbazar	1	-	-	10	-	-	-	9	1	-	-	19	1
10.	Ballavpur	1	2	-	2	6	3	-	3	4	5	-	5	10
11.	Mirzapur	1	-	-	-	-	2	-	5	13	2	-	5	13
12.	Mouldanga	1	3	2	3	2	2	2	3	3	5	4	6	5
13.	Jadavpur	1	-	-	5	5	-	-	6	4	-	-	11	9
TOTAL		16	42	09	45	44	51	06	62	61	93	15	107	105

During 2012-2013, the Department had 16 such Brati Groups of which 03 were boys', 05 were girls' groups and 08 were mixed groups comprising 140 boys and 180 girls distributed over 13 villages. For successful implementation of the programme 5-days physical training programme was organized for the Brati leaders. During this year 7 nos. monthly meeting conducted with the Brati Leaders to monitor the performance of the Brati Dals. The Brati Groups with the active support of the Department and the concerned Village Development Societies conducted the following programmes during the year.

SL No.	Name of the programme	No. of Villages	Participants		
			Boys	Girls	Total
1.	Shramdan (Offering voluntary Labour)	13	140	180	320
2.	Drawing	13	80	70	150
3.	Cultural Programme	13	78	104	182
4.	Craft Making	13	65	70	135
5.	Leaf collection (Through out the year)	13	140	180	320
6.	Excursion & Picnic	13	140	180	320

During annual 'Brati O Yubo Utsav' on 6th February, 2013, as many as 352 Brati children's & Brati Leaders and 248 youth representatives from VDSs including the Librarians, Assistant Librarians participated in the ground performance.

IV. Self Help Groups (SHGs):

Self- Help Groups at a Glance

No. of Groups formed under REC till date	Groups (gender wise)			Groups (Caste wise)				
	Male	Female	Mixed	Gen	SC	ST	MUS	Mixed
110	16	86	08	16	34	29	01	30

Organisation and supervision of Self Help Group as a part of Women Empowerment and Community Empowerment Programme is another special programme of the department. The main objectives of the programme are-

- To improve the socio-economic condition of the rural people with special emphasis to women.
- To develop the spirit of self- reliance and self-sustenance.
- To grow the habits of savings among the women community.
- To enable women to pool their own resources and use it judiciously.
- To develop the spirit of co-operation within the community.

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Each and every group has conducted 10 to 12 meetings on an average round the year. The groups are also engaged in different income generation programmes like craft making, animal husbandry, small business etc. As a part of social and cultural development, SHGs were taken initiatives to conduct sports, cultural programme, and picnics round the year.

Details of the meeting conducted with the SHG members for Training Need Assessment (TNA):

This year special drive has been taken by the department to conduct meetings with the SHG members in different villages for Training Needs Assessment. Following table would highlight the details:

Sl.No.	Villages	No. of Groups	Members presents	Key Training Needs
1.	Laldaha	1	14	Tailoring
2.	Bahadurpur	1	12	Animal Husbandry
3.	Binuria	4	40	Animal Husbandry
4.	Lohagarh	1	13	Duck & Hen rearing
5.	Chakpali	1	13	Goat rearing
6.	Bonovilla	3	10	Animal Husbandry
7.	Kamarpara	2	18	Craft training
8.	Ballavpur	2	16	Capacity building of Groups
9.	Supur	11	70	Jute craft making, mushroom cultivation
10.	Srichandrapur Chandrai	4	44	Fish cultivation, Agriculture
11.	Kankuria	9	45	Agarbati
12.	Raipur	9	35	Fish cultivation, goat rearing, Craft
13.	Mirzapur	7	40	Mushroom Cultivation, tailoring, Craft using Crystal
14.	Srichandrapur Agrani	3	20	Craft
15.	Rahamatpur	3	9	Craft, fish cultivation
16.	Shukbazar	5	67	Batik, Jute-Paper Craft
17.	Halshidanga	3	60	Vermin-Compost Training

* Continuing campus cleaning activities in Visva-Bharati area:-

This initiative had already taken up by the University itself to wide the scope for income-generation of the SHG members situated in 4 Tribal hamlets within Visva-Bharati campus. The main aim of this programme is to keep Visva-Bharati Campuses clean by encouraging SHG members in the cleaning activities & by doing this enhance the economic standard of the tribal families. Tribal SHGs under Santiketan Adibasi Mahadal have been successfully engaging in this activity round the year.

V. Rural Library Services:

Rural Library services are one of the important services of Rural Extension Centre through which literacy movement are carried out in the villages. Apart from literacy activities another objective of this programme is to develop it as an information & cultural center in the respective villages. This programme in rural areas has been carried out through network of 38 rural libraries with an active and financial support from Raja Rammohann Roy Library Foundation (RRRLF), Kolkata. Librarians and Assistant Librarians have been working voluntarily since inception of the programme.

The objectives of the programme are:

- To develop the reading habits among the villagers.
- To use library as a cultural communication and continuing education centre.
- To develop self-reliance and self-confidence.
- To provide all updated information regarding modern and advanced science and technology.
- Retention of acquired literacy skill for the neo-literates.
- Centre for sharing, sustaining and strengthening the knowledge base of the people.

Glimpse of Rural Library Service

No. of Blocks:	02	(i) Bolpur-Sriniketan (ii) Illambazar
No. of Gram Panchayats:	08	
No. of villages covered:	38	
No of Village Development Societies:	38	
No of Functional Libraries	34 (2 temporarily suspended, 2 show-caused)	
Library exclusively for Health purpose	01 (Surul Health Society)	
No. of Children Libraries:	12	
No. of Children's Corner	01	
No. of Computers	08	
Status of Books:		
Total No. of books in Rural Library :	1, 14,970	
No. of books purchased during the year :	2754	
Specimen Copies of Books collected during this year :	943	
Status of Readers:		
No. of enrolled Readers :	1904 (approx)	
No. of Books issued and returns :	26784 (approx)	
Activities of the Library during this year:		
Library day observation :	15 Libraries	
Wall Magazine Published by :	19 Libraries	
Cultural Programme with : 32 Libraries		
Total seminar organised :	12 nos.	

Building construction with the financial support from RRRLF

No. of library building constructed :	24
No. of library under construction	02

Book Binding:

As per the demands from the Rural Libraries financial assistance was provided to them for binding of damaged and soiled books and as a result 531 numbers of books made ready for the use of readers.

Children's Library:

Presently Rural Extension Centre has twelve children's library situated in 12 villages under its command area. These libraries are equipped with children books, Joyful learning materials, playing materials etc.

Total Books in Children library till date : 1970 (approx)

New addition of Rural Library Service (Under non-matching grant from RRRLF):-

1. RRRLF Children's Corner: -

With the aim to give special emphasis to the children section, Children corner has been set up in Monoharpur village. This children corner has been furnished with all accessories including computer aided learning. This is the first of its kind in India.

2. Senior Citizen Corner:

Special emphasis also has been provided to Senior Citizen of the villages. With that aim Senior Citizen Corner has been set up in Khoskadampur village, where books and storage materials provided to that section.

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3. Computer devices to Rural Library:-

Computer Devices has been provided to 6 Rural Libraries with the aim to build library as information centers. Those three Societies are 1) Supur Dedoot Club 2) Raipur Yubo Sangha & 3) Ballavpur Joyti Sangha 4) Sukhbazar Vivekananda Palli Seva Sangha 5) Mirzapur Palli Unnayan Samity 6) Monoharpur Gram Seva Sangha.

4. Providing Internet Facilities in Rural Library

Raipur Yubo Sangha Pathagar got two computers along with internet facilities in their library this year in addition to their normal stock. Now the number of computer in the Raipur Yubo Sangha Pathagar is three (3). All three computers are connected with INTERNET & LAN. This is unique initiative in history of Rural Library Services to extend computer with internet facilities among the rural readers. The readers from Raipur and surrounding villages are using internet. We are also getting very positive responses from the villagers of Raipur. Hopefully, Raipur Yubo Sangha Library will become a model Rural Library in the future harnessed with latest e-information

5. Publication of SRISTI:

SRISTI is the name of the magazine published with the selected writings from the readers of rural libraries. During this year one special issue of this magazine was published on the Halakarshana Utsav i.e. 8th August, 2012 on "Rural Reconstruction: A collection of writings".

6. Organizing Patha Charcha Kendra:

With the objectives to develop library as centre for information and culture, 05 Patha Charcha Kendras have been organized in 5 different villages where children from poor & distress families in the village used to get free education (coaching).

VI. Health Extension & Sensitization Programme on Health:

Under this programme, six poor patients of different villages were given financial assistance for treatment. In collaboration with the Elmhirst Institute of community studies, Santiniketan, the department organised a sensitization programme on Adolescence & Drug De Addiction at Binuria Nirod Barani High School, where students from XI & XII class Participated.

VII. Agricultural Extension:

This Department generally promotes awareness relating to agriculture and assist the departments in extending agriculture extension work in the villages. As a part to promote horticulture in the villages, 30 grafted fruit plants were supplied to SHGs and VDSs under Elmhirst Cluster of Halakarshan Utsav in Sriniketan on August 9, 2012. Besides, training on Vermin-compost also organised in collaboration with Palli Siksha Bhavana in Halshidanga village involving SHG members.

VIII. Vocational Training Programme:

Imparting vocational training to the various section of population is one of the priority areas of Rural Extension Centre. One month training programme on Jute Art Work on Paper Pulp were organised in Sukhbazar village where 15 SHG members from 5 SHGs participated in the vocational training programme. All the participants are belongs to OBC category. Self-Help-Group member were also benefited through this kind of training programme.

IX. Continuing Education Programme:

Under continuing education programme different kind of awareness and sensitisation programmes were conducted as per the need of the community. During the year 2012- 13 several such programmes were organised under Continuing Education Programme. Specifically during this financial year, 10 Rally cum Awareness Generation programme on women empowerment at different villages namely Sattore, Srichandrapur, Kendradangal, Lohagarh, Binuria, Mohidapur, Surul, Bergram, Bishnubati majhi para, ghoshaldanga villages in collaboration with the Department of Social work. In each village more than 200 participants including representatives of village development societies, mohila samities, and self-help groups and other stake holders from villages attended the programme. Director, Studies, Educational Innovation, and Rural Reconstruction also delivered her lecture on women empowerment in three such programmes.

Training / Sensitisation/ Awareness Generation Programme At a Glance:-

Sl. No	Name to the Programme	Place	Total	Collaborative Agencies/ Distinguish Participant Resource persons
1.	Women's Day Celebration	Deptt. of Social Work, PSV	60	Deptt. of Social Work, PSV
2.	Awareness against Superstition	Rajatpur High School	200	Rajatpur High School, Birbhum Paschim Bongo Bigyan Mancha
3.	Rally cum Awareness Generation Programme	10 villages (Sattore, Srichandrapur, Kendradangal, Lohagarh, Binuria, Mohidapur, Surul, Bergram, Bishnubati majhi para, ghoshaldanga)	2000 (approx)	Dept. of Social Work, PSV & Respective Village Development Societies.

X. Training for youth Leaders:

On the occasion of 150th Birth Anniversary of Swami Vivekananda, the department has organized one day training programme on Role & Responsibility of Youths in Rural Reconstruction at Rural Extension Centre. The secretaries from Village Development Societies and Mohila Samities participated in this training programme. Different aspects of Rural Reconstruction and Role of Swami Vivekananda in Rural Reconstruction were discussed by the resource persons. Director, Studies, Educational Innovation, and Rural Reconstruction Visva Bharati, Sriniketan and Prof. Raghavendra Chattyapadya from IIM Calcutta delivered lectures on this occasion.

XI. Sports & Games:

As a part of promotion of games and sports the village Development Societies of the command area were facilitated with minimum financial assistance to purchase different sports materials like Football, Volleyball & net etc. During this year 30 Village Development Societies has been provided sports materials.

XII. Folk Cultural Activities:

To revive the traditional folk culture and to encourage the creative potentialities through this traditional asset in the rural areas is the main objective of this programme. Different types of folk cultural programmes were organised by the members of the village development societies. During the year, Rural Extension Centre organised folk cultural programmes with the active participation with the village folk artists. During Sriniketan Magh Mela (2013), Rural Extension Centre took part in the programme called "Loko Sanskritir Ashor" where artists from different villages were participated. As many as 10 Village Development Societies received financial grant for organising different folk recreational items in their villages. Those folk item includes Vadu, Harinum, Yatra, Kirtan are noteworthy.

XIII. Crafts Promotion Programme:

Promotion and revival of traditional crafts is the main objective of this programme. The Rural Extension Centre as a part of Entrepreneurship Development Programme has undertaken the Crafts promotion Programme since 2001. Santiniketan - Sriniketan Craft Society is a registered society under REC which gives the platform to the distressed craftsmen of our

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command area villages. Craftsmen are engaged in different crafts such as bamboo work, lacquer based handicrafts, wire, meetings were conducted with the society for planning and execution of different programmes. In the year 2012-2013, Rural Extension Centre organized number of exhibitions-cum- demonstration of the rural artisanary during important occasions. During Poush Mela 2012, Magh Utsav-2013 demonstration- cum-sell counters had been set up by the craftsmen, where a total of Rs. 1, 05,105 (approx) had been recorded as sell.

XIV. Activities of Audio-Visual Unit:

The Audio-visual section of this department had taken commendable initiatives to prepare print as well as photographic documents of the activities for future uses. This wing has been conducting the routine work of still & Video-graphic documentation of all educational programmatic events of the department.

Exhibition: During Pous Mela this unit had prepared an exhibition on 'Rural Handicraft' of the department which was appreciated by all.

XV. Activities of Music Unit:

The thrust area of Music Unit of REC is to expand and inculcate the practice of Rabindra music in the surrounding village areas. Opportunities are given to the children to participate in various functions and festivals of Sriniketan and Santiniketan. This unit usually takes lead role to organise different functions and festivals of Sriniketan.

Details of the Music Classes at Village Level (both Music and Dance):

Name of the Center	Name of the villages	Number of Days classes held in week	Total Number of students (at village level)
Paruldanga	1) Paruldanga 2) Khoskadampur	2	37
Raipur	3) Raipur 4) Supur	2	30
Binuria	5) Binuria 6) Islampur 7) Bahadurpur	2	20
Total	7 villages	6	87

Workshop on Tagore Music:

An initiative has been taken by the Music Unit this year to organize Tagore music teaching the villages for the rural girls. Padma Bhusan Sri Dwijen Mukhopadhyaya, an eminent singer was invited as visiting professor. Total 50 students from different villages participated in this workshop. Another workshop was also organised by the music unit by involving village students. Sri Ajoy Chakroborty, eminent Hindustani classical singer was invited to share singing tips to village students.

Participation of the Music Unit in the weekly Mondir, other functions and festival of the University:

During the year 2012-2013, village students of Music Unit actively participated in the weekly Mondir (Upasana griha), Barsha Mongal and Basanta Utsav (spring festival). Their participation brought a new dimension to the village extension programmes.

Running of Six Months Certificate Course on Rabindra Sangeet & Folk Music:

The Department has been running the Six Months Certificate Course on Rabindra Sangeet & Folk Music. Total 07 students admitted during the year for the said course.

Details of the students admitted in the six months certificated course:

General		SC		ST		OBC		Minority		Total	
M	F	M	F	M	F	M	F	M	F	M	F
02	-	02	-	-	-	01	01	01	-	06	01

XVI. CELEBRATION OF IMPORTANT EVENTS/DAYS:

- 1) The Library Day was celebrated on 20th December by 15 rural Libraries. Those rural libraries had observed the day through organising awareness programmes, village rally with various posters, charts and cultural programmes. On that occasion the villagers collected books from the villagers. On the occasion, 4 libraries published wall magazines.
- 2) On 8th September the International Literacy Day was celebrated at Kendradangal High Madrsa School, Kendradangal, Birbhum. Sri Ramkumar Chattapadhyaya, Director, Granthan-Vibhaga, kolkata was present on that occasion as the Guest-in-Chief and addressed the audience. On this occasion successful students in Madhyamik Examination & successful students in higher secondary examination from our command area villages were felicitated by the department. All secretaries, librarians, representatives of SHGs, Brati Leaders participated in this programme.
- 3) The Children's Day was celebrated on 14th November at Mohidapur Primary school, Mohidapur, Birbhum. The Children representatives from different societies performed cultural programmes on this occasion. Asst. Director, Commissioners of Child labour, Suri was present during the occasion as the Guest-in-Chief. During this occasion a drawing competition was also organised with the participants from the villages.

XVII. LINKAGE DEVELOPMENT:

The Rural Extension Centre, Visva-Bharati has been developing linkages with the following Institutions:

External:-

1. Panchayat & Rural Development Department, Govt. of West Bengal
2. Ministry of Self-Help Groups & Self-Employment, Govt. of West Bengal
3. District Rural Development Cell, Suri, Birbhum.
4. Elmhirst Institute of Community Studies, Santiniketan.
5. Tagore Society for Rural Development, Bolpur.
6. Panchimbanga Gramin Bank, Illambazar, Sriniketan, Raipur Branch
7. Block Development Office, Illambazar, Bolpur- Sriniketan
8. Block Primary Health Centre, Bolpur & Illambazar
9. NABARD
10. All India Radio, Santiniketan.
11. Sian Sub-Divisional Hospital, Bolpur
12. Sriniketan-Santiniketan Development Authority.

XVIII. Seminar / Workshop / Conference/Training:

The technical staff members of REC attended several workshops, Seminar, Conferences and the training programmes. The technical staff members as Resource persons attended several programmes organised by other non-government and government organisations.

National and International Standard Conference / Seminar / Workshop / Exhibition etc. Attended by Teachers/ Research scholars in details:

Name of the Teacher

Seminar Details

1. Prof. Amit Hazra

1. Lectures delivered as the Resource Person in the "98th. Orientation Programme" organized by the Academic Staff College, University of Calcutta, on September 1, 2012.
2. Lectures delivered as the Resource Person in the ICSSR-New Delhi sponsored "10-Day Workshop on Research Methodology in Social Sciences" organized by CSSEIP, Tripura University in collaboration with ICSSR-NERC Shillong, at Tripura University, during Novem-ber 27-29, 2012.

2. Dr. Rafiqul Islam

3. Lectures delivered as the Resource Person in the "Multi District RCC Conference 2013" organized by the Rotary International, Bolpur, on March 17, 2013.
 4. Lectures delivered as the Resource Person in Interactive Programme for Research Scholar organized by the Academic Staff College, Burdwan University, Burdwan on March 18, 2013.
 5. Key-Note Address delivered in the National Seminar on "Rural Development : Challenges and Opportunities" organized by the Geographical Society of North Bengal and NABARD, Alipur Duar, on March 23-24, 2013.
1. Participated in the Plan Appraisal Process and Presentation made on implementation of SSA and MDM programs in the Project Approval & Budget (PAB) of Andaman & Nicobar Islands for the year 2012-13 from 21-22 May 2012 of the Department of School Education and Literacy, MHRD, Govt. of India at Shastri Bhavan, New-Delhi.
 2. Participated in the National level workshop and meeting in connection with the implementation of SSA programme held at Chandighrah from 11-12 June, 2012 sponsored by Department of School Education and Literacy, MHRD, Govt of India.
 3. Act as Resource Person and delivered lectures on the Training program of Community Participation and Social Mobilization for Universalization of Elementary Education held at National Institute of Rural Development (NIRD), Hyderabad from 4-6th. July 2012.
 4. Attended and Presentation made in the 12th National Level Monitoring workshop for Monitoring Institutions for Implementation of SSA programme at Scope Complex, Lodhi Road, New Delhi from 27-28th. August 2012 sponsored by Department of School Education and Literacy, MHRD, Govt of India.
 5. Attended and Presentation made in the Workshop with the State Governments and Union Territory Administrations on MDM MIS with integration of Interactive Voice Response Systems (IVRS) and Monitoring Institutions held at Thiruvananthapuram, Kerala on 18-19th. October 2012 sponsored by Department of School Education and Literacy, MHRD, Govt of India.
 6. Participated in the Plan Appraisal Process and Presentation made on implementation of SSA and MDM programs in the Project Approval & Budget (PAB) for the State of West-Bengal for the year 2013-14 from 11-12th. March 2013 of Department of School Education and Literacy, MHRD, Govt. of India at Shastri Bhavan, New-Delhi.
 7. Participated in the Plan Appraisal Process and Presentation made on implementation of SSA and MDM programs in the Project Approval & Budget (PAB) for the Andaman & Nicobar Islands for the year 2013-14 from 18-19th. March 2013 of Department of School Education and Literacy, MHRD, Govt. of India at Shastri Bhavan, New-Delhi.

On going Research Projects in the Department:

Name of the Teacher	Name of the Project	Sponsoring Agencies	Amount Sanctioned
1. Dr. Rafiqul Islam	i) Project Monitoring & Supervision of SSA and MDM Programs for the selected Districts (10) of West Bengal.	Department of School Education and literacy, MHRD, Govt. of India since 2003	Rs.5.00 Lakhs
	ii) Project Monitoring & Supervision of SSA and MDM Programs for the A& N Islands Research study	Sponsored by Dept. School Educaion & Literacy, MHRD, Govt. of India since 2011	Rs.1.55 Lakhs
	iii) Research study on MDM Programs of four Districts of (Birbhum, Bankura, Coochbehar and Howrah) West Bengal.	Sponsored by Department of School Education, Govt of W.Bengal	Rs.2.40Lakhs
2. Dr. Amit Hazra	i) Development of The Benchmarking Tools For PRIs	Indian Audit and Accounts Dept.	
	ii) Conduction of Child Labour Survey in Birbhum District.	Labourt Commissioner, Birbhum, Govt. of W.B	Rs. 2.75 Lakhs
	iii) Developing Community based Child Protection & Monitoring Mechanism to Combat Child Trafficking from West Bengal.	Save the Children and UNICEF Sarba Siksha Mission, Birbhum.	Rs.1.0 Lakhs
	iv) Model Rural Primary School: A Challenge for Providing quality Education to All.		Rs. 8.40 Lakhs
	V) Evaluation/Impact Assessment of ICT @ School Scheme	Ministry of Human Res. Development D/o School Education & Literacy.	Rs. 5.90 Lakhs
	VI) Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV (Co Principal Investigator)	Dept. of Science & Technology, Govt. of India	Rs. 270 Lakhs

Publication within the year April 2012- March 2013

i) Text books ii) Other Books iii) Monographs iv) Research Paper (Author (s), title of the paper; year, Journal, Volume No. Pages) v) Number of paper published in peer / reviewed journals: National / International.

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Sl. No.	Name of the Paper/ Monographs/ Report/ Text Books	Year/ Date of Publication	Name of the Journal, Volume No. Pages	National/ International	Name of the Author(s)
01.	Monitoring and Evaluation reports on implementation of SSA and NDM programmes for the districts of West Bengal 1) East Mednapur 2) West Mednapur 3) Murshidabad 4) Nadia 5)South 24 Parganas.	2012-13	Each report contains 110 pages	Submitted to MHRD, Govt. of India	Dr. Rafiqul Islam
02.	Monitoring and Evaluation reports on implementation of SSA and NDM programmes for the districts of North and Middle Andaman of A&N islands.	2012-13	Each report contains 110 pages	Submitted to MHRD, Govt. of India	Dr. Rafiqul Islam
01.	Gala Rural Development Programmes in India : Challenges and opportunities.	2012-13	Paper published in "Rural Development : Challenges and Opportunities" ,	-	Prof. Amit Hazra
02.	Study on Vulnerability of Children in Closed and sick Tea Gardens in Jalpaiguri District, West Bengal.	April, 2012	Vol. II, (Ed. Dr. Piyal Basu Roy), published by the Geographical Society of N. Bengal. A collaborative study by Save the Children, UNICEF, Visva-Bharati & Burdwan University, April, 2012	-	Prof. Amit Hazra
01.	Gender Perspective in Disaster Preparedness : A Study in Flood Prone Areas in Rural West Bengal	Nov 2012	Social Work Chronicle	ISSN No: 2277-1395 International	P. Dubey, T. Pal, A. Chatterjee & S.Santra

SILPA-SADANA

A brief history on the development of the Bhavana

Silpa-Sadana, a department under Palli Samgathana Vibhaga at Sriniketan is well acquainted for its Technical & Vocational training imparted in Cottage Industries & Craft since its inception in 1922. It also has a long tradition in enriching taste of the people through its artistic and innovative craft products. Construction of new building of the department is going on out of XI th. Plan grant. Setting up of a modern computer laboratory in addition to its own server is also in progress. The departmental Workshops / Studios / Laboratories have been developed and upgraded by incorporating new equipments / tools / machineries purchased out of XIth plan equipment grant.

The department had once taken leadership role in revitalizing the decadent rural industries and craft sector of India. Its present activities are:

Training Activities:

In the Training Section, systemic training in different trades or disciplines is being imparted to about 124 regular students out of which 60 students are studying at degree level 29 at Diploma level and 35 at Certificate level. Silpa-Sadana offers 8-semester Bachelor Degree course in Design, 3-year Diploma Courses in i) Textile Technology (Handloom), ii) Furniture Technology & Interior Design, and iii) Pottery & Ceramic Technology; and 2-year Certificate Courses in i) Hand Made Paper Making, ii) Book Binding & packaging, iii) Hand Batik and iv) Artistic Leather Work v) Wood Work vi) Pottery vii) Handloom Weaving.

Production, Extension and Marketing :

This wing has been carrying out production of artistic craft articles in the above-mentioned trades with the help of teaching & technical staff of the department, village artisan, daily rated casual workers and students of training units of Silpa-Sadana. The products made are sold through its Sales Emporium at Sriniketan.

Name of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations:None

Departmental Seminar/ Workshop (Speakers, Title of the Seminar, Date):

National Workshop on "Eco-friendly printing with natural dyes" was held at Silpa-Sadana during 8th - 9th December, 2012. The said workshop was inaugurated by the honorable Vice-Chancellor and almost one hundred participants from various educational institutions, NGOs, entrepreneur etc. were attended the said workshop. The organizing committee of the workshop comprised of :

Shantanu Kumar Jena

1. Invited as a resource person for "Privartan" a workshop for prompt art craft and culture among Village school children of Bihar, Maharastra & Panjab state at Narandrapur, District Siwan, Bihar from 10th Oct. to 21st Oct 2012
2. Appointed as a commissioner for the selection of 30 participants for an All India Ceramic Artist Exhibition organized by Bharata Bhavan, Bhopal on its 31st Anniversary at Bharat Bhavan
3. Participated as an Invitee All India Ceramic Artist Exhibition organized by Bharata Bhavan, Bhopal on its 31st Anniversary at Bharat Bhavan from 15th Feb. To 5th March 2013
4. Invited as a Resource person to speak on Design & Design Process Elements of design & Trends for Kantha Stitch Cluster Under Department of Handicraft & Textile 22nd July 2012
5. Invited as a Resource person to speak on Design & Design Process Elements of Design & Trends, for Rajnagar Block Printing Cluster, jointly organize by NIDMSME Cell and Santiniketan Society youth Empowerment 12th Sept. 2012
6. Invited as a Resource person to speak on Design Process Elements of Design & Trends in Design for Jambazar Shoe Cluster, Kolkata organize by NID MSME Cell 7th Nov. 2012.

Vishal C. Bhand

1. Chairman, Technical Session at National Seminar organised by MPVSS and NIMH Hydrabad.
2. Group exhibition of paintings at Colombo, Sri Lanka by Indo- SriLanka Foundation

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Prabir Kumar Choudhuri

1. Paper entitled "Investigation of suitability of Eri over Acrylic and Woollen yarn for making winter garments through Multi-Criteria Decision Making (MCDM) approach" presented in the International Seminar organised by the International Science Congress Association, India during Dec.8-9, 2012.
2. Paper entitled "Scope of application of Multi-Criteria Decision Making (MCDM) technique for gradation of jute fibres" presented in the National Seminar organized by National Institute of Research on Jute & allied fibre Technology, ICAR, Kolkata during Jan. 3-5, 2013.
3. Paper entitled "Selection of clusters or villages for Social work program using Multi Criteria decision Making (MCDM) Technique: A new approach" presented in the Golden Jubilee National Seminar organized by Dept. of Social Work, Visva-Bharati during Jan. 28-29,2013.
4. Paper entitled "Need for fibre selection in contemporary textile design" presented in the National Seminar organized by Dept. of Painting, Textile Design section, Banaras Hindu University, Baranasi, during Feb. 22-23, 2013.
5. Paper entitled "Manufacturing of eri silk yarn in Ring spinning system and evaluation of its acceptance for warm clothings using AHP and MAHP technique of Multi-Criteria Decision Making (MCDM) approach presented in Technological Conference at the Dept of Jute and Fibre Technology, University of Calcutta on 23.03.2013

Sankar Roy Maulik

INTERNATIONAL

1. Paper entitled "Studies on Kinetic and Thermodynamic Parameters of Natural Dye Extracted from Punica granatum on Protein Fibres" was presented in the 4th RMUTP International Conference on "Textile & Fashion" at Bangkok, Thailand during 3-4, July, 2012 by availing DST International Travel Support Scheme,

NATIONAL

1. Paper entitled "Eco-friendly Dyed & Printed Handloom Textiles" was presented in the National Seminar on "Design Innovation in Indian Fabric Art-1950-2000" held at Department of Painting. Faculty of Visual Arts. BHU, Varanasi from February 22 to 23, 2013.
2. Paper entitled ""Creative printing on handloom textiles" was presented in the Technological conference (National level) on ""Challenges and Opportunities in Textiles" organised by The Textile Association (India), West Bengal Unit held on 23rd March, 2013 at Kolkata.
3. Paper entitled "Painting on handloom textiles with natural dye-an approach towards product diversification" was presented in the National seminar organised by Department of Fashion and Apparel Design, Rani Birla Girls' College, University of Calcutta held on 25th March, 2013 at Kolkata.

WORKSHOP AND TRAINING PROGRAMME CONDUCTED/ATTENDED

1. Organised National Workshop on "Eco-friendly printing with natural dyes" as Convenor at Department of Silpa-Sadana. Visva-Bharati, Sriniketan, West Bengal during 8th - 9th December, 2012.

Arabinda Mondal

"Characterization of Fly ash generated from Bakreswar Thermal Power Plant" ICUFA-2013, an International Conference on Fly ash utilization in 2013.

Jaya Boro

Invitation as "Resource Person" for Cluster development activities in Terracotta at Asharikandi. Dhubri, on

- a) Training on use of modern machinery from 15th December to 24th December. 2012,
- b) Training on design diversification from 16th December to 22th December. 2012.
- c) Training on design diversification and quality control from 22nd January to 3rd February, 2013.
- d) Training on packaging process from 23rd January to 25th January, 2013.

Sponsored by Development Commissioner Ministry of Micro Small & Medium Enterprises, Govt. of India

Arun Kr Sharma

1. Attend the 2nd China Changchun International Ceramic Symposium from 20th July to 10th August 2012 organized by Changchun Municipal Foreign Affairs Office, Renmin Street, Chachun Jilin Province, P.K. China,
2. Attend As a Fellow in the Karigar Congress- 2012 from 17-09-2012 and 18-09-2012. Organized by Madhya Pradesh Council of Science & Technology at Vigyan Bhawan, Nehru Nagar, Bhopal (M.P)
3. Attend in National Ceramic Camp at Bhopal from 6th to 14th October ,2012
4. Conduct the Terracotta cum Ceramic Workshop from 03- 01 - 2013 to 12-01-2013in Scluptor Department, College of Fine Arts, Karnataka Chitrakala Parishath, Bangalore.

Asish Ghosh**International precipitation**

1. participated in performance for documental 13th July 212
2. participated art exhibition friends of santiniketan at Sri Lanka September -2012
3. participated "One World - Many Papers" artwork and project at Paper and Bookarts Museum of Ege University, Izmir, Turkey December- 2012

National precipitation.

1. Participated group show at Nandan art gallery santiniketan Violence-Double Spread Curator- Amit Mukhopadhyay 2012
2. participated group show at J.N.U DELHI art and aesthetic departments art gallery Violence-Double Spread Curator- Amit Mukhopadhyay 2012
3. Organized Nature art/design workshop at Patna art collage Bihar January 2013

Sanjay Kumar Goswami

1. Sectional personal research work done on Sisal fibre for thin paper for Letter Pad making
2. Introduced many varieties of new and innovative Hand made paper and paper pulp products through Training Unit, Silpa-Sadana.

Ongoing Research Project in the Departments:**Arabinda Mandol****Research projects (ongoing)**

SI. No.	Title	Agency	Period	Grant/Amount Mobilized
1.	Effect of fly ash on the development of ZrO ₂ -Cordierite composites.	DST	3 years	Rs. 16,85,000.00

Extension Activities/NSS/Cultural and other activities organized by the Department and participated by the teachers and students of the Department.

- i. Through the extension activities of Textile section of the department, handloom weavers of nearby villages have been given job of manufacturing fabrics out of our supplied yarns and as per our designs & specifications. The final products have been sold through the Sales Emporium of the Department and Pous mela.
- ii. Similarly, rural craftsmen in the field of carpentry, pottery, artistic leather crafts, handmade paper making, batik etc have also been provided employment through manufacturing of different respective craft items either by providing raw materials or by directly purchasing the finished items as per the design supplied by the department.
- iii. Undertaken a plant visit at 'The Kansabati Co-operative Spinning Mills Ltd.', Barjora, Bankura with final year students of Diploma in Textile Technology (Handloom) during October, 2012.

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Academic distinctions gained by Teachers/Scholars or the Department as a whole

Sankar Roy Maulik

UGC Research Project

Implementing UGC Research Project entitled "Value addition of handloom cotton fabric through natural colour dyeing" (F. No 41-1307/2012 (SR) dated 30th July, 2012) as Principal Investigator.

OTHER ACADEMIC ACTIVITIES

1. Expert committee member in 'Bachelor of Fashion and Apparel Design' under University of Calcutta.
2. Expert committee member for vocational course on "Tailoring and Dress Designing" of Netaji Subhas Open University.
3. Selected as a panel of referee for Indian Journal of Fibre and Textile Research, National Institute of Science Communication and Information Resources, Dr. K S Krishnan Marg, Pusa Campus, New Delhi 110 0J2.
4. Selected as a referee for the Indian Journal of Traditional Knowledge, National Institute of Science Communication and Information Resources, New Delhi.

Prabir Kumar Choudhury

1. Awarded the Fellow membership of International Science Congress Association.
2. Awarded the life membership of Indian Society for Technical Education.
3. Acted as reviewer of Indian Journal of Traditional Knowledge published by NISCAIR to review the article: 'Design and development of fashion accessories inspired from the hand woven shawls of Nagaland'

Publications within the April 2012 to March 2013

Vishal C. Bhand

Publications:

1. Time, Space and Education p.293-297 Issues and Challenges on Higher Education, Wordsworth Pub.ISBN 9788192541976
2. Crafting Craft, E. Publication of Craft Revival Trust.
3. Design of Cover Page of Journal publication by IGNOU, AC training collage Siliguri

Prabir Kumar Choudhuri

1. Studies on Tensile properties of Eri/Acrylic blended yarn, Indian Journal of fibre & Textile Research., Vol. 38, March 2013, pp. 66-73
2. Determination of acceptance of Eri silk yarn for warm clothings using AHP and MAHP technique of Multi-criteria decision making (MCDM) approach, Proceedings of the 26th National Convention of Textile engineers and National Seminar, organised by The Institution of Engineers (India) during Feb. 2-3, 2013.
3. Studies on manufacturing of Eri silk yarn in conventional Ring spinning system and its tensile behavior, Proceedings of the 26th National Convention of Textile engineers and National Seminar, organised by The Institution of Engineers (India) during Feb. 2-3, 2013.

Asish Mitra

Paper published in Peer Reviewed Journal:

1. Ashis Mitra, Abhijit Majumdar, Prabal Kumar Majumdar and Debamalya Bannerjee, "Comparative Analysis of Regression and ANN Models for Predicting Drape Coefficient of Handloom Fabrics"; IJFTR (CSIR), Vol. 37, December 2012, pp 313-320.

Paper Published in the Proceedings of International Conference:

1. Presented a paper entitled "Prediction of draping behaviour of handloom cotton fabrics by artificial neural network" in the first International Conference on Intelligent Infrastructure, CSI 2012 organised by Computer Society of India, Kolkata Chapter held on December 1-2, 2012 at Science City, Kolkata.

2. Presented a paper entitled "Application of multi-criteria decision making (MCDM) techniques for ranking of handloom fabrics as summer clothing" in the 2nd International Science Congress held on December 8-9, 2012 at Bon Maharaj Engg. College, Vrindaban, Mathura, UP.

Sankar Roy Maulik

PUBLICATIONS

1. CdO and CdS nanoparticles from pyrolytic method: Preparation, characterization and photocatalytic activity, Indian Journal of Chemistry, 51 A, June (2012), pp 807-811.
2. An innovative approach towards tie-dye technique. Asian Dyer, 9(2), 2012, pp 42-45.
3. Dyeing of wool and silk with Madhuca Indica, Asian Dyer, 9(5), (2012), pp 41-47

Book Published as Author

Name of the book: Tailoring and Dress Designing (Bengali Version), Publisher: Netaji Subhas Open University, Kolkata
ISBN: 978-93-82112-00-6

Arabinda Mondal

A. Mondal, "Effect of incorporation of ZnO containing glaze on the densification of porcelain" Indoceram, Vol. 48, No. 2, 2012, pp 42-45

Shantanu Kumar Jena

Publish an article "New Design Trends in Tableware's "magazine publishes Quarterly Journal of All India Pottery Manufacturers' Association Vol.1 No.1, 2012

DEPARTMENT OF SOCIAL WORK

A brief history on the development of the Department: The Department of Social Work was established in 1963 offering a BSW (Hons.) course and MSW course in 1977 and Ph.D programme were added. The Department is part of the Palli Samgathana Vibhaga (PSV) or the Institute of Rural Reconstruction. Visva-Bharati is the first of the universities situated in a rural ambience. Tagore choose such a setting as he thought that this would help in bridging the gap between rural and urban people. Tagore's ideas and philosophy of rural rejuvenation and reconstruction along with the added role of universities in dissemination of education form the bedrock of our courses. The Department is convinced that Tagore's ideas are modern and dynamic and it has been the aim from the very beginning how to achieve more and more consonance with his ideas through our academic and extension work as well as to keep all channels open for a constant dialogue between theory and praxis. It is a matter of great pride that we have been able to project the departmental activities as having an intimate engagement with rural life and conditions, the aim of which lies in empowering communities through healthy exchange of ideas, knowledge and services in the area of Social Work in a mutually enriching manner as we cull the wisdom and knowledge of the rural people through this exchange.

Any other relevant information, which in the opinion of the Head of the Department is worth reporting, should be included:

Name of the students qualified in UGC/NET/CSIR/SLET/GATE : NET-2, JRF-2

Departmental Seminar/Workshop/Camp : 1. Golden Jubilee Seminar on Advances in Social Work Education and Practice in Changing Social Milieu on January 28-29, 2013.

One Day Workshop/Tanning Programme on Human Rights: Rights of the Unrecognized Sector on January 29th, 2013.

National and International standard Conferences attended /organized by the faculty:

Kumkum Bhattacharya:

International Conferences attended:

- Presented a paper entitled, "Jivan Devata: Nuances of Interpretation" in Rabindranath Tagore Centre, Napier University, Scotland, UK, May 2012.

Publications:

- 2012 "Utopias in Praxis: Rabindranath's Rural Reconstruction" in Utopias from Asia (An international and interdisciplinary symposium in Santiniketan on the occasion of the 150th birthday anniversary of Rabindranath Tagore edited by Konrad Meisig, Germany, Harrassowitz Verlag, Weisbaden.

M.M.Mukherjee

- Chairperson of the Award Committee at XXXI Annual Conference of Indian Society of Professional Social Work at Manipal University, Manipal on 4th January, 2013.

Publication

- Female Foeticide, Social Work Foot-Prints (Samaj Karyada Hejjegalu), Bangalore, December 2012, Vol-III, Issue-I, Page-30-33.

Prasanta Kr. Ghosh

- Presented a paper at the International Conference on the Relevance of Tagore's Rural Reconstruction Experiment in India organised by IIPA, New Delhi. During 1-3 May 2012.
- Presented a paper on Tagore's Strength Based Community Development Practice - A Sustainable Social Development Practice for Rural India, at Kathmandu, Nepal in Nov. 2012.

Publications (book chapter)

- History and Philosophy of Social Work in India, Encyclopaedia of Social Work in India, 2012.
- Tagore's Strength Based Community Development Practice - A Sustainable Social Development Practice for Rural India, Strength Based Social Work Practice: Ed; Pulla Venkat, Baktj Stefan, Brisbane Institute of Strength Based Practice, James Cook University, Australia, Nov. 2012.

Fulbright Fellow 2012

- Nehru International Fulbright Fellow on Academic Administration, 2012, USEFI. New Delhi.
- Visited Dartington Hall, UK to present a paper on Sriniketan : Experiment to Experience and initiated for having academic exchange programme with Visva-Bharati.

Debotosh Sinha

Publications

- "Tagor and Sriniketan: Underpinnings of Professional Social Work Practice": Perspectives of Social Work, Vol-XXVII, No-1, April 2012.

Book

- Social Welfare and Social Work, 2012, Concept Publishing Company Pvt. Ltd, New Delhi.

Seminar

- Paper presented on "Prospects of Social Work Practice in Tea Industry of Assam" in the International Seminar on Human Development & the Marginalized Sections in North-East India: Issues, Challenges & Way forward, Assam University, Silchar, 18-20 March, 2013.

Sanjoy Roy

- Organized First Indian Social Work Congress, 2013 on "Social Work Profession in India: Bridging Gaps and Building Bridges" on 23-25 February, 2013 at Conference Centre, University of Delhi.
- Attended Refresher Course organized by CPDHE, Delhi University from 15th September to 6th October, 2012.
- Presented paper in National Seminar entitled, 'Teacher Education Perspective in India', on Quality Assurance of Teacher Education: Institutions & Mechanisms organized by Department of Education, Modern Technology, Rishikesh, Uttarakhand on 21-22 April, 2012.
- Presented paper on "Need and Importance of Courses related to HIV/AIDS offered by Universities in Northern India" (Co-author) in 10th Annual national Seminar on "Social Work Response to HIS/AIDS, January 28-31, 2013 organized by School of Social Work, IGNOU collaboration with Kerala Central University.

Publication

Article

- "Child trafficking in India: A Monstrous Crime" in an International Magazine, Bal Chappal, Delhi, Issue-2, July, 2012.
- "Women Work-Force in Unorganized Sector in India: Realization from Social Security Perspective", in an Edited book, 'Women Workers in Informal Sector' by Dr Ravi Prakash by Abishkar Publication, Jaipur, 2013(accepted).

Book

- 'Social Welfare Administration: Development and Prospects' by Discovery Publishing House, New Delhi, 2013, ISBN-935056305-3.

Sukumar Pal

- Presented a Paper titled "Decentralized Planning and Panchayati Raj Institutions: An analysis of Constitutions (73rd Amendment) Act in the context of Rural Development" in National Seminar on 'Changing Rural Scenario in the New Millennium' held at Department of P.C.K (Social Studies and Rural Development), Visva-Bharati, Sriniketan on 22nd-23rd March' 2013

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- Presented a paper titled "Problems of Tribal People in Stone Crusher's area at Pachami belt in Birbhum District: Search for Social Work Intervention in ensuring their Rights and Livelihood" in Golden Jubilee National Seminar on "Advances in Social Work Education and Practice in changing Social milieu" at Department of Social Work, Visva-Bharati on January 28-29' 2013

Neelmani Jaysawal

- Organized a Golden Jubilee National Seminar titled "Advances in Social Work Education and Practice in changing Social milieu" held at Department of Social Work, Visva-Bharati on January 28-29' 2013.
- Presented a Paper titled "Role of Civil Society in organizing Social Capital through Community Mobilization" in a Golden Jubilee National Seminar held at Department of Social Work, Visva-Bharati on January 28-29' 2013.
- Presented a Paper titled "Civil Society, Democratic Space and Social Work" in 1st Indian Social Work Congress' 2013 held at Department of Social Work, University of Delhi on 23rd- 25th February' 2013.
- Presented a Paper titled "Rural Development Policies and Neo-liberalism" in National Seminar on 'Changing Rural Scenario in the New Millennium' held at Department of P.C.K (Social Studies and Rural Development), Visva-Bharati, Sriniketan on 22nd-23rd March' 2013.

Sudeshna Saha

- Presented a paper titled "CSR and its Role in Corporate Sector" in a Golden Jubilee National Seminar on Advances in Social Work Education and Practice in Changing Social Milieu Visva-Bharati Jan 28-29, 2013.
- Presented a paper titled "CSR and its efficacy in Modern Era" in a Indian National Congress 2013 Social Work Profession in India: Bridging Gaps and Building Bridges organised jointly by NAPSWI and Deptt of Social Work, Delhi University 23rd to 25th feb 2013.
- Foreign Direct Investment on Retail and its effects on Agrarian Sector in a Department of Palli Charcha Kendra Visva-Bharati Sriniketan, on 22nd and 23rd March 2013.

Subhashree Sanyal

Papers Presented in Seminar

- Presented paper on "Child Marriage Norms in Fakirtilla Village of Barak Valley; Assam" in 1 day "Consultation on Child Marriage" organized by Law Research Institute; Gauhati High Court in Association with Centre for Studies in Human Development; Assam University and supported by UNICEF office for Assam; 17th September 2012
- Presented paper on "Development Communication: An Essential Tool for Social Work Practice" in 2 day Golden Jubilee National Seminar on Advances in Social Work Education and Practice in changing social milieu organized by Department of Social Work, Visva-Bharati; Shantiniketan on 28th and 29th January 2013
- Presented paper on "Looking at India on the Map of International Aid Effectiveness: A Commentary" in Indian Social Work Congress organized by Department of Social Work, University of Delhi and National Association of Professional Social Workers in India from 23rd to 25th February 2013

Publications

Journals

- Sanyal, S [2012]: Development Communication: Intensifying Rural Development in India ; Kurukshetra Vol 60[3] pp 27-30; ISSN 0021-5660
- Sanyal, S [2012]: Evolution of NGO Initiatives in India: A Brief Analysis; South Asia Politics Vol 10[11] pp 28; RNI: DELENG/2002/6815 [Co-authored]
- Sanyal, S [2012]: The Other Side of Development: Female Migration in India: Trends and Impacts; Perspective in Social Work ; Vol XXVI [3] pp 42 ;ISSN 0974-5114
- Sanyal, S [2012]: Mission Education for All: Reflections From Sarva Shiksha Abhiyaan ; Kurukshetra Vol 60[11] pp 8-10; ISSN 0021-5660

- Sanyal, S [2012]: Mujhe Pankh Dedo-Give me Wings to Fly Reflections on Education of Girl Child in India ; Social Welfare Vol 59[6] pp 12-13; ISSN 0037-8038
- Sanyal, S; [2012]: Tackling The Growing Incidences of Maternal Mortality in Rural India: Emerging Issues & Concerns; Women's Link; Vol 18 [4]; ISSN 2229-6409 [Co-authored]
- Sanyal, S [2012]: Bharat Nirman: A Giant Leap Towards Rural Infrastructure Development; Kurukshetra Vol 60[12] pp 59-61; ISSN 0021-5660
- Sanyal, S [2012]: Looking at Nagaland Through MDG Lenses, Yojana Vol 56 pp 50; ISSN 0971-8400

Books (chapter)

- Sanyal, S [2012] "MGNREGA: A promise to Rural India for Pro-Poor Development" in Sinha, H & Zorema, J [eds] Decentralization and Rural Development in North East India, Abhijeet Publications, New Delhi: ISBN 978-93-81136-65-2
- Sanyal, S & Kaushik S [2013] " Partnership in Good governance: Role of Government and the HSDS" in Ramanathan, C & Dutta, S [Eds] Governance , Development and Social Work , Routledge, Taylor and Francis Group ISBN 978-0-415-52251-
- Sanyal, S [2013] "Women's right to Health Care: Some Reflections from Cachar District, Assam" in Sinha, H [eds] Women Empowerment in India: A North East Perspective; Concept Publications, New Delhi ISBN: 13: 9788180699078

Ongoing Research Projects/Project(s):

- The Global Fund to Fight Against AIDS, Tuberculosis and Malaria (GFATM) (on Counselling Sub-Component): Under this project the Department has organized training programme for Master Trainers and training programme for ICTC counsellors and STI Counsellors. The department has also acquired infrastructure of 15 lakhs under this project for enhancing its capacity of teaching learning and training.

Extension activities organized by the department:

The distinguishing feature of the field activities of the Department is that the students and supervisor(s) were actively involved in different activities mentioned as below:

- **Organized Rallies and camps:** The Department organized 20 rallies (10 Awareness camp, 11 Rallies) in its field work villages in and around Sriniketan on social issues. It also organized two workshops at Department on the development of fieldwork practicum with community leaders and Panchayat members. The students, faculty and academic support staff were engaged in organizing the programme.
- **Medical Social Work:** Medical Social Work programme is going on at S. D. Hospital, Sian, P.M. Hospital, Santiniketan and PHC, Bolpur. The programme got added impetus because hospital authorities have taken active interest. They are also providing learning opportunities to the students and also helping them to undertake health awareness camp within the purview of the hospitals, undertaking filaria check-up camp, blood donation camp etc.
- **School Social Work:** The Department extended its field placement programme to different schools in Bolpur, Sriniketan and Santiniketan, such as, Sailabala Girls High School, Nichupatti Boys School, Ramkrishna Vivekananda School, Siksha- Satra in Visva-Bharati, Tara Sankar Vidya Pith in Bolpur, etc. The principals/managing committees of these schools were highly appreciating the programme and services given by the students of the Departments, especially in the context of maintaining discipline in schools, arranging parent-teacher meetings, helping individual students, forming study groups, awareness building on social issues, etc.
- **Rural Camp:** The Department organized a rural camp at Chotosimulia, in Bolpur subdivision. We are happy to acknowledge that we have received good support in getting premises of Tagore Society of Rural Development for arranging accommodation for the students of BSW (Hons) Semester II. The students have received good exposure and gained experience of rural life and their problems.
- **Legal Awareness Camp:** The students of the Department were also engaged in organizing legal awareness camp in

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field work villages like Dangapara by taking assistance from Bolpur Court. Other relevant information about the teachers/Scholars of the Department as a whole.

- **Placement Cell:** The Department is helping outgoing students for seeking job in different organizations through placement cell. Most of our students are selected by different non-government agencies.

Designing New Course/ Curriculum or any other teaching innovations introduced by the Department:

The work on modification of MSW course curriculum has been completed.

PALLI CHARCHA KENDRA

Palli Charcha Kendra, P.S.V., V.B a teaching department, founded in 1977, is under the Institute of Palli Samgathana Vibhaga. It offers the postgraduate degree course on Rural Development. It conduct research on various aspects of life of the rural people and also has Ph.D. programme..tha Bhavana.

Departmental Seminar (Speakers, Title of the Seminar, Date) : National Seminar held on the topic ``Changing Rural Scenario in the New Millennium" organized by the Department, P.C.K., V.B.

National and International Standard (Conferences / Seminars / Workshops / Exhibitions etc. attended by Teachers / Research Scholars in details.

On going Research Project in the Department : Three-UGC--Major Research Projects.

- (a) one under Dr. Santanu Rakshit, Associate Professor & HOD,
- (b) Dr. Sujit Kumar Paul, Assistant Professor
- (c) Dr. Rathindra Nath Pramanic, Assistant Professor, P.C.K.

PALLI SIKSHA BHAVANA

Academic

In this year most of our U.G. students successfully completed ICAR-JRF examination and got ICAR-Junior Research Fellowship. Quite a few P.G. students and Research Scholars qualified for National Eligibility Test conducted by ICAR (ICAR-NET). The Bhavana successfully started following the syllabus recommended by the 4th Deans committee. To keep pace with different academic and developmental activities, all the meetings conducted by ICAR on different issues were attended time to time by our principal and other faculty members.

Number of U.G. and P.G. students were selected through campus interview in different reputed banks and companies. Two U.G. students were selected in IFFCO. One U.G. student was selected in MAHYCO Seed Company. Seven U.G. students were selected for summer training in State Bank of India. One U.G. student was selected in KEGG Farms Group as management trainee. Besides, three P.G. students were also selected in IFFCO Kishan Call Centre. The village attachment and industry placement for all the Final-year U.G. Students were arranged.

Palli Siksha Bhavana (Institute of Agriculture) completed 50 years of its journey this year. On this glorious occasion the Institute celebrated this year as the "Golden Jubilee" year. Bhavana organised a seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" during 1-3 September, 2012.

Visit of Dignitaries (During 2012-13)

1. Prof. M.S. Swaminathan , Hon'ble M.P., Rajyasabha
2. Prof. L. N. Mandal, Former Vice- Chancellor, BCKV
3. Prof. Aminul Islam, Former Vice -Chancellor, Dhaka University
4. Prof. Sisir K. Mukhopadhyay, Emeritus Professor of Visva-Bharati
5. Prof. D. Dasgupta, Former Vice-Chancellor, BCKV
6. Prof. Sujit Kumar Basu, Former Vice -Chancellor, Visva-Bharati
7. Prof. Saroj K. Sanyal, Former Vice -Chancellor, BCKV
8. Prof. Asim C. Sinha, Vice- Chancellor(Officiating), UBKV

The Agricultural Farm

The Agricultural farm of PSB including the area under RKVK comprises an area of 40 ha with an irrigated area of 16 ha (12 ha in *kharif* and 4 ha in *rabi*) and net cultivable area of 12 ha (out of which 5.5 ha was allotted to RKVK+ 0.5 ha allotted only for the year 2009-2010) In this year 8.0 ha was utilized for student and AICRP (Weed Control) experiments. In *kharif* 7 experiments (two by the AICRP Weed Control), in *rabi* 9 experiments (two by the AICRP Weed Control) and in *pre-kharif* 5 nos. experiments (two by the AICRP Weed Control) were conducted during 2012-2013. Seed multiplication in *rabi* covered 2.0 ha. The production of different crops in this farm were: a) Paddy: 67.0 q b) Wheat: 8.48 q c) Mustard: 30 kg d) Pulses: 1.96 q. e) Sesame: 1.88 q. f) Paddy Straw: 120 q (Approx.) g) Baby corn : 690 pcs. h) Onion: 65 Kgs. i) Groundnut: 10.0 Kgs . The amount of seeds distributed from the farm was as follows: Paddy: 1.30 Kgs.

Rathindra Krishi Vigyan Kendra

During the year 2012-13, Rathindra KVK, Palli Siksha Bhavana, Visva- Bharati, imparted 49 nos. vocational training programmes for 1627 nos. of practicing farmers and farm women, 5 nos. entrepreneurship development training programmes for 108 nos. rural youth and 3 nos. of training programmes for 66 nos. in-service personnel of different Govt. and non Govt. agencies for updating their knowledge.

The Kendra organised 8 nos. Front Line Demonstration (FLD) in 257 nos. farmers' plots. Regarding On Farm Trials/ Testing (OFT), KVK conducted 5 nos. Problem Solving Research works in 43 farmers plot. Considering the production of quality seed of different crops KVK produced 11 quintal paddy and 1 quintal fish in its instructional farm.

This year Rathindra Krishi Vigyan Kendra formed 2 Self Help Groups among farm women. Beside that KVK conducted

OFT on Integrated Farming System. For this trials, 7 farmers were selected and 100 kg fish fingerlings, 1000 nos of poultry chicks, vegetable and pulse seeds were given to the farmers.

The KVK disseminated different technologies through 12 field days, 147 diagnostic visit, 9 All India Radio Programmes (including live programme), 2 nos. of T.V. programmes and 1 Kisan Mela.

The Kendra published 11 leaflets, 6 popular articles in local language and 11 extension literatures for farmers and 1 research paper.

Regarding participation in different training, seminar, workshop etc., Dr. Prabuddha Roy, SMS (Agril. Extension) and Dr. Krishna Mitra, SMS (Fishery) attended the training programme at BCKV, Kalyani and Sri Sourav Mondal, SMS (Plant Protection) and Smt. Ruma Addy, SMS (Home Science) also attended training programme at BCKV, Kalyani. Dulal Chandra Manna, Programme Co-ordinator and Sri Madhu Sudan Chatterjee, Senior Assistant attended the EFC Meeting at Zonal Office, Kolkata. Dr. D.C Manna attended Zonal Workshop, held at BCKV and National Conference in Punjab Agricultural University, Ludhiana, Punjab.

The meeting of the Scientific Advisory Committee (SAC) was held on 14th January, 2013. The meeting was attended by Prof. S. Dattagupta, Hon'ble Vice-Chancellor, Visva-Bharati and Dr. A. K. Singh, Zonal Co-ordinator, ICAR, Kolkata. Rathindra Krishi Vigyan Kendra also organised different training programmes and a short term research under ATMA. The Kendra is also doing different collaborative programmes with Tagore Society, IFFCO and Rallis India Ltd.

KVK also provided Kisan Mobile Advisory Service for farmers through which different message or information regarding Agriculture, Horticulture, Plant Protection, Fisheries, Public health and hygiene etc.

This year Smt. S. Suneja, Administrative Officer, Ministry of Agriculture and Cooperation, Govt. of India and Dr. B .K. Pati, Official of West Bengal Govt. visited Rathindra KVK.

PSB Library

The library played a major role in the day to day academic activities of PSB and other Bhavanas and Departments. The total number of books purchased this year is 823. The total number books and periodicals in the library are 47529 and 5408 respectively including the subjects like languages, humanities and social science, science, home science, computer science, commerce and management, education, engineering and technology, medical sciences, agricultural science, veterinary science, law, and other. Total No. Books & Periodicals issued 21300. The total number of staff in this library is insufficient for the services it provides.

Dairy and Poultry Farm

Presently this farm has only two cows and one calf. The total production of milk was 1114.2 litres. The total cash sale of milk was Rs. 4300/- in 2012-13. There are only two permanent and one temporary staff for looking after the farm. This farm is compelled to reduce its activity due to the acute shortage of manpower.

Soil Testing Laboratory:

The Soil Testing Laboratory of Palli Siksha Bhavana catered the advice of scientific agriculture based on soil testing to the farmers of Birbhum district. Apart from this Soil Testing Laboratory carried out advanced research on different aspects of soil fertility. A number of research projects sponsored by KVIC (Govt. of India) on Vermicomposting technology, Geographic Information System (GIS) based on soil fertility mapping (IPNI) etc. completed successfully. DST (Govt. of India) extended one research project on vermicomposting of fly ash for another two years. After the retirement of Prof. G. N. Chattopadhyay on 1st December, 2013, Dr. Goutam Kumar Ghosh took over the charge as In-charge Soil Testing Laboratory. Soil Testing Laboratory is now facing an acute shortage of manpower which is to be solved at the earliest.

AICRP on Weed Control

The All India Coordinated Research Programme on Weed Control has been functioning from March 18, 1986 at Visva-Bharati, Sriniketan under USDA and subsequently, it has been taken up entirely by the ICAR in April 1, 1990. The Visva-Bharati, Sriniketan Centre, one of the 22 centres in India, has been functioning under the DWSR (AICRP - Weed Control, ICAR). The main aim of the centre is to develop and promote effective integrated weed management practices in important

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crops and cropping systems along with basic researches on weed biology. In addition, survey of weed flora of different agro-ecological regions of West Bengal and preparation of weed atlas are the other major goals of the centre. Dr. B. Duary, Associate Professor in Agronomy acts as Principal Investigator of the Centre.

Activities of the centre during the period

- i) Weed survey and surveillance were made in different crops, cropping systems, non-cropped areas and aquatic bodies in different agro-climatic zones of West Bengal.
- ii) Weed map of different districts of West Bengal and weed herbarium were prepared.
- iii) Collection and preservation of different weed seeds in seed museum.
- iv) Experiments on different weed management practices in different crops and cropping systems such as herbicides combinations to control weeds in transplanted rice, Weed management in black gram and its residual effects on succeeding mustard crop, Weed management in conservation agriculture in rice - yellow sarson - green gram cropping system, permanent herbicidal trial, butachlor resistance on *Echinochloa* sp., management of *Echinochloa glabrescens/crusgalli* and management of Parthenium by *Zygotemma* beetles and competitive vegetations (Cassia and Tephrosia) were conducted.
- v) Biology of *Oryza* spp. (behaved as weed) was studied.
- vi) Seventeen On Farm Trials (OFTs) were demonstrated with proven herbicides in farmers' field.
- vii) Ten Front Line Demonstrations (FLDs) in *khari* rice were conducted in different locations in Birbhum and Burdwan districts considering the specific situation of weed problem.
- viii) Weed seed bank under different agronomic trials were studied.
- ix) Economic analysis of each agronomic trial including OFTs & FLDs was done.

Extension activities

- i. On farm trials in farmers 'fields' at different locations were conducted and were demonstrated to popularize the weed management technologies .
- ii. Organized 7 days workshop on Parthenium on the occasion of Parthenium Awareness Week from 16 - 22nd August, 2012.
- iii. One popular article and five technical extension bulletin were prepared.
- iv. Trainings were imparted to the farmers for creating awareness about improved weed management technologies.
- v. Leaflet and one Poster on Parthenium were published and distributed to the participants / farmers during training / awareness programme.

Seminar/Symposium/Conference/Workshop

D. Mondal and A. Hossain attended QRT Meeting during 10 - 12th January, 2012 at OUAT, Bhubaneswar.

D. Mondal and A. Hossain attended Seminar on "Safe Food for All" organized by Dept. of ASEPAN, PSB, Visva-Bharati during 21 - 22nd February, 2012.

D. Mondal and A. Hossain attended Biennial Workshop of AICRP-WC at Kerala Agricultural University, Thrissur, Kerala during 17 - 18th April, 2012.

D. Mondal and A. Hossain attended Biennial Conference on "Weed Threat to Agriculture, Biodiversity and Environment" organized by Indian Society of Weed Science at Kerala Agricultural University, Thrissur, Kerala during 19 - 20th April, 2012.

DEPARTMENT OF 'ASEPAN'

A BRIEF HISTORY OF THE DEPARTMENT

The Department consists of six disciplines namely Agronomy, Soil Science, Agricultural Chemistry, Agricultural Engineering, Plant Physiology and Animal Science that has been abbreviated as the Department of ASEPAN. The activities of the Department comprise mainly of teaching, research and extension work. The Department offers teaching programmes both in undergraduate and post-graduate levels. Teachers from all the disciplines take part in teaching programme in undergraduate level. At present, the Department has been offering two post graduate courses namely, M.Sc.(Ag) in Agronomy and M.Sc.(Ag) in Soil science & Agricultural Chemistry. There is proposal to start M.Sc. in poultry Science (already approved in the BOS, Dept. of ASEPAN) and one M.Sc. course from Ag.Engineering.

The composite Department of ASEPAN is going to split into three Departments such as (i) Department of Agronomy (having section of Agronomy and Crop Physiology), (ii) Department of soil Science and Agricultural Chemistry (having section of Soil and Agricultural Chemistry) and (iii) Department of Agricultural Engineering and Animal Science (having section Agricultural Engineering and Animal Science) for smooth running of all activities of the Department. This has already been approved and confirmed by academic Council and Executive Council Visva-Bharati. Only notification is waiting.

Besides teaching and research activities, the teachers and students are involved in extension activities for solving various problems of the farmers in the locality. Time to time recommendations being made from the findings of the investigations carried out by the Department for farms' adoption in areas cropping systems, water management, weed management, soil and fertility management, agro-technologies for improving crop quality and productivity, rain fed farming, soil and water conservation, animal nutrition and management, potato production technology from TPS (true potato Seed) growing of pulses, postharvest processing and preservation of sugarcane products and oil seeds as Utere crop in rice fallow under rain fed situation are becoming popular among the farmers of this region. Extensive RAWE programme offers to the UG student.

Total No of Teaching staff- 25 (2 Vacant)

Associated farms: Agriculture farm Dairy & Poultry farm

Associated Laboratory: Soil Testing Lab.

Total No of Non-Teaching staff- 10 (3 Vacant)

Head of the Department : Prof. S.K.Pyne

S.K.Pyne

National/ International Seminar attended

Participated and Presented paper

In the golden jubilee seminar on advances in Agricultural Research towards food security and Environmental Sustenance, organized by Palli Siksh Bhavana, Visva-Bharati, September, 1st to 3rd 2012 entitled. "Black Bengal goat rearing: a livelihood option for landless tribal women". Paper No. T4-P009.

Participated and presented paper in the First International Conference on Bio-resource and Stress Management organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9,2013

Chairs a session of livestock and aquaculture on 7th Feb. in the First International Conference on Bio-resource and Stress Management organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9,2013

Participated in the National seminar on "Recent Advances in Rice genomics and Biotechnology" & PSB, V.B. Santiniketan 23-24 March 2013.

Publications

Pyne S.K. and Samanta G. (2012) Neuromuscular deformities in lead induced chick embryos- An experimental study to

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correlate the hazards of lead present in environment" .pp. 323-327 Chapter of a book "Livestock production and Rural Development in India" edited by Dr. B.K.Mishra.

Extension activities

Participated in different programmes of Rathindra Krishi Vigyan Kendra, Palli Siksha Bhavana, Visva-Bharati, Sriniketan time to time in training and Farmers meet programme.

Took part in the programmes of surrounding villages on A.H. & Veterinary Science.

Delivered Talk on Animal Husbandry in Doordarshan and All India Radio

Departmental Research Project: i) Black Bengal Goat Production, ii) Duck Husbandry with mixed farming concept iii) Fish production with utilization poultry wastes.

Academic Distinction: Member of different academic societies and communities of Visva-Bharati

Examiners: NEHU, Mehghalaya, BCKV, Mohanpur, Nadia, WBUAFS, Kolkata

Social activities: Member: Rotary International, Past President of Rotary club of Bolpur- Santiniketan

Paul Harris Fellow

Supervising Ph.D. Scholar: 3 (Three)

G. C. De

Attended National Seminars/ Symposia/ Workshop etc.

Organized the Inaugural Function of the Golden Jubilee Year of the Institute of Agriculture, VB, Sriniketan on Sept. 01,2013 and delivered on "Palli Siksha Bhavana: Problems addressed and Vision ahead" in the light of Tagore and Agriculture at PSB, VB, Sriniketan.

Organized the Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustainances as the Chairman, held during 1-3 Sept, 2012 in collaboration with International Plant Nutrition Institute (IPNI) and PSB, VB at Sriniketan, VB, and West Bengal.

Chaired the Session on Agriculture and Rural Development in the Nat Seminar on 'Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization' org by A. K. Dasgupta Centre for Planning and Development, Dept of Economics and Politics, Vidya Bhavana, Visva-Bharati, Santiniketan on 23.11.12.

Organized the Reunion Meet on the auspicious occasion of the Golden Jubilee Year of the Institute of Agriculture during January 26-27, 2013 as the Patron.

Chaired Technical Session V in the National Seminar on "Changing Rural Scenario in the New Millennium" org by the Dept of PCK (Social Studies and Rural Development on 23.03.13.

Ongoing Research Projects:

M/s Godrej Soaps (Agrovat) Ltd. Project, Visva-Bharati, Sriniketan

M/s Godrej Agrovat Ltd., Mumbai

Rs. 25,000/-

M/s Devgen Seeds Project, PSB, VB, Sriniketan

M/s Devgen Seeds and Crop Technology Pvt. Ltd, Secunderabad, Andhra Pradesh.

Ongoing Research Programmes:

Relative performances of System of Rice Intensification (SRI) in coastal plains of Orissa.

Integrated weed management in hybrid cotton with legume intercrop under rainfed upland ecosystem of Orissa.

Ph. D. awarded: one

Ph. D. Scholars under supervision: Three

M. Sc (Ag) Thesis Supervised: Two

Other Academic and Administrative Activities:

Member of the Selection committees for academic and research posts in different Universities.

ii) Referee for review of research papers in several professional Journals

- iii) Expert Member for Central Sericulture Research & Training Institute, Berhampore, Murshidabad
- iv) Expert Member for FAO-CFC-TBI Organic Tea and Seed Co Ltd., Chabua, Dibrugarh, Assam.
- v) Member of the Bhavana Purchase Committee
- vi) Member of the Institute Board of Vidya Bhavana, Visva-Bharati, Santiniketan.
- vii) Assisting as an Expert (Plant Science) of the IFFCO Kisan Sanchar Ltd (IKSL), West Bengal since 09.07.08.
- viii) Successfully conducted VBCAT, 2012 on 12.05.12 and Counseling on 24.06.12.
- ix) Successfully carried out VBRET on 14.09.12.
- x) Acted as the External Expert of the Selection Committee Meeting for CAS for the post of Professor of Agronomy at BCKV, Nadia.
- xi) Attended meetings of the Academic Council, Executive Council and Court of Visva-Bharati.
- xii) Attended the Institute Board Meeting of Vidya Bhavana as the External Member on 28.01.13.
- xiii) Convener of the Sriniketan Development Committee
- xiv) Chairman of the Pay fixation Committee of the employees of Visva-Bharati as per EC, VB
- xv) Successfully completed two-year term of the Principal, Palli Siksha Bhavana up to 10.01.13.

Agricultural Extension Activities:

- * 20.04.12. Delivered on 'Sugarcane cultivation and SRI method of rice cultivation' at the Taltore Sabujayan Farmers Club at Taltore. Org by Manabjamine and ADA, Bolpur-Sriniketan Block at Taltore.
- * 23.04.12. Delivered on 'Utility of Varietal seed replacement' for Krishi Darshan (TV) telecast.
- * 19.05.12. Delivered on 'Improved method of pulse production' at the Training Programme of Head Masters/ Achiever Farmers of Farm Schools under ATMA of Birbhum district. Org by RKVK at RKVK, PSB, VB, Sriniketan.
- * 29.07.12. Delivered on 'Agriculture development after independence for Krishi Darshan (TV) telecast.
- * 11.11.12. Delivered on 'Problems and prospects of Rice production in Birbhum district' in a Convention of Birbhum district Rice Business Society. Org by the Rice Mill Owners' Association, Birbhum at Gitanjali, Bolpur.
- * 14.11.12. Delivered on 'Cultivation of lentil for multiplication of Foundation Seed from ICARDA' to the adopted farmers of Manabjamine. Org by Manabjamine at the Office at Mirjapur, Bolpur.
- * 18.11.12. Delivered on 'Technique of lentil seed inoculation with Rhizobium culture and its importance' to the adopted farmers of Manabjamine. Org by Manabjamine, Mirjapur, Bolpur.
- * 20.11.12. Delivered on 'Benefits of using water soluble liquid liquid fertilisers' to the adopted farmers. Org by RKVK, PSB, VB, Sriniketan.
- * 21.11.12. Delivered on 'Importance of multiplication of Foundation Seed of lentil' to the adopted farmers of Manabjamine. Org by Manabjamine at Senkapur in Bolpur-Sriniketan Block.
- * 23.11.12. Chaired the Session on Agriculture and Rural Deve3lopment in the Nat Seminar on 'Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization. Org by A. K. Dasgupta Centre for Planning and Development, Dept of Economics and Politics, Vidya Bhavana, Visva-Bharati, Santiniketan
- * 14.12.12. Delivered on 'Diversified Cropping Pattern under Dry land / Rain-fed Conditions'. Org by the AERC, Santiniketan.
- * 18.12.12. Delivered on 'Vocational Training introduced by Gurudeva and at subsequent stages at Visva-Bharati' before the eminent personalities like honourable Paridarshaka of Visva-Bharati and President of India Sri Pranab Mukherjee, Rector, Visva-Bharati and Governor of West Bengal Sri M. K. Narayanan and other reputed personalities at Rathindra Atithi Griha, Santiniketan.
- * 23.12.12. Delivered on 'Roles of Banking Services for the Economic Development of the Farming Communities'. Org by UBI, Bhubandanga Branch at the Pous Mela Stall, Santiniketan.
- * 24.12.12. Delivered on 'Importance of IFFCO Kisan Sanchar Ltd for the services of farming community. Org by IFFCO at the Pous Mela Stall, Santiniketan.
- * 26.12.12. Delivered on 'Boro rice cultivation under sustainable agriculture' at the Farmers Meet on "Scientific Crop Discussion" at Saota Agricultural Cooperative Society. Org by IFFCO at Saota Girls' School, Saota, Nanoor Block.
- * 29.12.12. Delivered on 'Organic Farming: Scope and Reality. Org by the SATSA at Gitanjali, Bolpur.

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* 06.01.13. Delivered on 'Management of wheat crop' for Krishi Darshan (TV) telecast.

* 09.01.13. Delivered on 'Seed Production Technology of Lentil' to the adopted farmers of Manabjainin.Org by Manabjainin at its Office, Mirjapur, Bolpur.

* 15.01.13. Served as the judge of the exhibits of the Farmers' Fair-cum -Exhibition of the Sub-division of Agriculture, Bolpur.Org by Sub-Div of Agriculture Office, at Dakbunglow Maidan.

* 11.03.13. Delivered on 'Pulse production and its importance in nutrition of women and children of marginal farmers by utilizing fallow lands after kharif rice' in a Trg programme on Farmers' Field Day on Pulse Production-cum-Demonstration.Org by Manabjainin in collaboration with International Centre for Agricultural Research in Dry-land Areas (ICARDA), New Delhi at Manabjainin, Mirjapore, Bolpur.

* 23.03.13. Chaired Technical Session V in the National Seminar on "Changing Rural Scenario in the New Millennium" org by the Dept of PCK (Social Studies and Rural Development).

Publications within the year (April 2012 to March 2013)

A. Publications in Journals:

De, G. C. 2012. Impact of global climate change on Agriculture with special emphasis on Weed shift. In Climate Change: Its Impact, Adaptation and Mitigation in Agriculture, SATSA (State Agricultural Technologists' Service Association), W. Bengal. Mukhapatra (Annual Technical Issue) 16: 1-14.

Bera, R., Seal, A., Dolui, A.K., Chatterjee, A.K., Sarkar, R.K., Dutta, A. De, G., C., Barik, A.K., Majumdar, D. and Bhattacharya, P. 2012. Evaluation of a new biodegradation process and its end product quality assessment for organic soil management. Indian Agric. 56 (1&2): 71-78.

Popular article:

De, G. C. 2013. Improved method of boro rice cultivation. In Proc. Scientific Crop Discussion under Trg & Visit Programme, IFFCO Marketing Division, Berhampore. pp.09-12.

D. C. Ghosh

Seminar/Symposium attended

D. C. Ghosh

1. Chaired a technical Session 'Session II' of the First International conference on Bio-resource and Stress Management on February 7, 2013 at Science City, Kolkata.
2. Presented a Lead paper on 'Growth, Productivity and Economics of Hybrid Rice as Influenced by Fertility Level and Plant Density, on the above conference on February 7, 2013.

Publication

D C Ghosh

1. Kumar, M., Baishya, L. K., Ghosh, D. C., Gupta, V. K., Dubey, S. K., Das, A. and Patel, D. P. 2012. Productivity and Soil Health of Potato (*Solanum tuberosum* L.) Fieldas Influenced by Organic Manures, Inorganic Fertilizers and Biofertilizers under High Altitudes of Eastern Himalayas. Journal of Agricultural Science, Canada. 4 (5): 223-234.
2. Jyotsna, N., Ghosh, D. C. and Meitei, W. I. 2012. Study on growth, yield and quality of organically grown ginger varieties under rainfed condition of Manipur. Journal of Crop and Weed. 8(1): 17-21.
3. Karforma, J., Ghosh, D. C. and Mandal, S. 2012. Residual effect of integrated nutrient management in fodder maize on productivity of succeeding rapeseed under rainfed upland in terai region of West Bengal. Environment and Ecology. 30 (3C): 1080-1084.
4. Malik, G. C., Wasim, I., Banerjee, M. and Ghosh, D. C. 2012. Effect of irrigation, variety and nitrogen on growth and productivity of wheat (*Triticum aestivum* L.) in the lateritic belt of West Bengal. International Journal of Bio-resource and Stress Management. 3 (2): 158-164.
5. Karforma, J., Ghosh, M., Ghosh, D. C. and Mandal, S. 2012. Effect of integrated nutrient management on growth, productivity, quality and economics of fodder maize in rainfed upland of Terai Region of West Bengal. International Journal of Agriculture, Environment and Biotechnology. 5(4): 385-393.

6. Jyotsna, N., Ghosh, M., Ghosh, D. C., Meitei, W. I. and Timsina, J. 2013. Effect of biofertilizer on biomass productivity, nutrient balance and soil fertility in rainfed organic ginger production System. *Journal of Agricultural Science and Technology A* 3: 10-19.
7. Jyotsna, N., Ghosh, M., Ghosh, D. C., Meitei, W. I. and Timsina, J. 2013. Effect of biofertilizer on growth, productivity, quality and economics of rainfed organic ginger (*Zingiber officinale* Rosc.) Bhaisey cv. in north-eastern region of India. *Journal of Agricultural Science and Technology A* 3: 83-98.
8. Baishya, L. K., Kumar, M., Ghosh, M. and Ghosh, D. C. 2013. Effect of integrated nutrient management on growth, productivity and economics of rainfed potato in Meghalaya hills. *International Journal of Agriculture, Environment and Biotechnology* 3(1):1-9.

Academic distinction

D. C. Ghosh

- i. Fellow of the West Bengal. Academy of Science and Technology.
- ii. Member of the Research Board of Advisors of the American Biographical Institute, USA.
- iii. Member of the Departmental Promotion Committee of the Scientists of ICAR.
- iv. Member of the Faculty Council of the Faculty of Agriculture, Uttar Banga Krishi Viswavidyalaya.
- v. Member of the selection committee for Academic Posts in different Universities.
- vi. Referee of several professional Journals.

Ongoing Research

D. C. Ghosh

1. Nutrient Management in Hybrid Rice.
Ph. D. awarded under supervision of D C Ghosh
1. Nongmaithem Jyotsna on 'Growth and Productivity of Ginger (*Zingiber officinale* Rose.) as influenced by Crop Variety and Biofertilizer'.
Ph. D. submitted under supervision of D C Ghosh
1. Debasish Borahon 'Integrated Nutrient Management in Direct Sown Rainfed Upland Rice in Arunachal Pradesh'.

Dr. Arun Kumar Barik

National /International Seminar/Symposium/Workshop etc. attended:

1. Attended and presented a research paper entitled "Studies on babycorn and cowpea (fodder) intercropping system under various crop geometry and nutrient management practices" In Golden Jubilee National Seminar on Advances in agricultural research towards food security and environmental sustenance at Palli Siksha Bhavana, Visva-Bharati, West Bengal held on September 1-3, 2012.
2. Attended and presented a research paper entitled "Productivity, nutrient uptake, N-balance sheet and economics of wet season rice as influenced by integrated nitrogen management" In International Symposium on Sustainable Rice production and Livelihood Security: Challenges and Opportunities at CRRRI, Cuttack, Odisha held on March 02-05, 2013.

Ongoing research project in the department:

Acting as P.I. of the project on "Evaluation----- sustainable farming practice" funded by Inhana Biosciences, Kolkata.

Extension activities/NSS/ Cultural and other activities:

1. Delivered a lecture on "Efficient use of chemical fertilizers in kharif rice." in a Television Programme at Santiniketan Durdarshan, Birbhum on 29.07.2012. This was broadcasted on 21 and 24 th Aug., 2012 at 4.30 p.m. and 26th Aug., 2012 at 4.30 a.m.
2. Delivered a lecture on "Crop rotation- towards maintenance of soil fertility" in a Radio Programme at Santiniketan AIR, Birbhum on 26.01.2013 at 5.30 p.m.

Academic activities:

3. Supervised one M.Sc.(Ag.) Agronomy student for thesis submission.

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4. Supervised two Ph.D. scholars who were awarded degree.
5. Acting as referee for review of research papers in National and International Journals.
6. Acting as Teacher-in-charge, Agriculture Farm, PSB, VB, Sriniketan.
7. Acted as paper setter and evaluator in various courses of agriculture, appointed by OUAT, Bhubaneswar, Odisha; BAU, Kanke, Ranchi, Jharkhand and UBKV, Coochbehar, West Bengal.
8. Appointed as external examiner for viva-voce examination of M.Sc.(Ag.) thesis at BCKV, Mohanpur, Nadia, West Bengal.
9. Appointed as external examiner for evaluation of Ph.D. thesis in Agronomy at BCKV, Mohanpur, Nadia, West Bengal.
10. Life member of Indian Society of Agronomy, New Delhi.
11. Life member of Indian Society of Forage crops, Hisar.
12. Life member of Indian Society of Soil Biology and Ecology, UAS, Bangalore.

Publications:

2. Hedayetullah, M and Barik, A.K. 2012. Influence of cutting and fertilizer management on growth and yield of fodder oats (*Avena sativa* L.). Madras Agricultural Journal. 99(10-12): 711-714.
3. Bera, R., Seal, A., Dolui, A.K., Chatterjee, A.K., Sarkar, R.K., Datta, A., De, G.C., Barik, A.K., Majumdar, D. and Bhattacharya P. 2012. Evaluation of a new biodegradation process and its end product quality assessment for organic soil management. Indian Agriculturist. 56(1 & 2): 71-78.

(Arun Kumar Barik)

B. K. Saren

Conference/Seminar/ Workshop/Exhibition etc. attended

Participated and Presented Paper

1. Participated and presented paper in the National Seminar on "Role of Magazine and News Paper for Development of Santali Literature" organized by Sahitya Akademi, New Delhi, held at Port Blair, Andaman on July 14, 2012.
2. Participated and presented paper in the National Seminar on "Advances in Agricultural Research towards Food security and Environmental Sustenance" organized by Palli Siksha Bhavana, Visva-Bharati, September 01-03, 2012.
3. Participated and presented paper in The First International Conference on Bio-resource and Stress Management organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013

Extension activities

1. Participated in conversation talk on "Field preparation for Paddy cultivation" in Santali in All India Radio, Kolkata and broadcast on 09.07. 2012.

Academic Distinctions gained:

1. Life Member of Indian Society of Agronomy, IARI, New Delhi
2. Life Member of Crop and Weed Science Society, BCKV, Nadia, West Bengal
3. Serving as a Member of Anti-Ragging Committee, PSB, Visva-Bharati.
4. Core member of Visva-Bharati Common Admission Test, 2012-13.
5. Member of Standing Committee of SC/ST Cell, Visva-Bharati.
6. Acted as Member of Recommendation for Yuba Puroskar, 2012 in Santali literature awarded by Sahitya Akademi, New Delhi
7. Acted as Repportier in the IPNS session of National Seminar on "Advances in Agricultural Research towards Food security and Environmental Sustenance" organized by Palli Siksha Bhavana, Visva-Bharati, September 01-03. 2012.
8. The paper entitled "Studies on growth, yield and quality of rainfed niger (*Guizotia abyssinica* Cass) under mulching and boron application in lateritic belt of West Bengal" by Sudeshna Kar, Lina Halder and B. K. Saren, was selected as best poster under the category of Crop diversification, soil health and sustainable agriculture in "The First International

Conference on Bio-resource and Stress Management" organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013.

9. Acted as Chairman in Poster session (Crop Husbandry) of The First International Conference on Bio-resource and Stress Management organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013

Publications of the year April 2012 - March 2013

1. Mandal Kausik, and Saren, B.K.. 2012. Productivity, Water Use Efficiency and Economics of Rainfed Niger (*Guitotia abyssinica*) as Influenced by Mulching and Row Spacing in Red and Lateritic Soil of West Bengal, India. *International Journal of Bio-resource and Stress Management*, 3 (3): 295-298.
2. Pramanik, K., Bera, A. K. and Saren, B.K. 2012. Response of biofertilizers and phytohormone on growth and yield of hybrid groundnut (*Arachis hypogea* L.). *Journal of Interacademia*. 16 (1):59-64.

B.K. Saren

3. Damodaran, V., Saren, B. K. and Ravisankar, N. 2012. Influence of time of planting, spacing, seedling number and nitrogen management practices on productivity, profitability and energetics of rice (*Oryza sativa*) in Island Ecosystem. *Madras Agric Journal*, 99 (7-9): 538-544.
4. Damodaran, V., Saren, B. K., Ravisankar, N., Brammyasamy I. N. and Subramani, T. (2012). Influence of crop management practices on productivity and economics of rice in South Andaman Islands. *Oryza*, 49(1):30-34

Dr. B. Duary

National and International standard Conference/Seminar/Workshop/ Exhibition etc. attended:

- 1) Attended Biennial Conference of AICRP-Weed Control at Kerala Agricultural University, Thrissur, Kerala during 17-18 April, 2012.
- 2) Attended Biennial Conference on "Weed Threat to Agriculture, Biodiversity and Environment" organised by Indian Society of Weed Science at Kerala Agricultural University, Thrissur, Kerala during 19-20 April, 2012.
- 3) Attended and presented a paper in Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organised by Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Santiniketan, West Bengal during 1-3 September, 2012.
- 4) Attended and presented a paper in First International conference on "Bio-resource and Stress Management" organised by R. K. M. Foundation held at Science City, Kolkata during 6-9 February, 2013.
- 5) Attended and presented a paper in National Seminar on "Echoes of Silent Spring: Human Impact on Environment" organised by the Department of Environmental Studies, Visva-Bharati, Santiniketan, 9th March, 2013.
- 6) Attended and presented a paper in National Seminar on "Recent Advances in Rice Genomics and Biotechnology" organised jointly by the Department of Biotechnology and Palli Siksha Bhavana, Visva-Bharati, Santiniketan, 23-24 March, 2013.

Ongoing Research Projects

- | | | |
|------|-----------------------|---|
| I. | Name of the Teacher: | Dr. B. Duary |
| II. | Name of the Project : | All India Coordinated Research Programme on Weed Control (ICAR) |
| III. | Sponsoring Agencies: | Indian Council of Agricultural Research, New Delhi |
| IV. | Amount Sanctioned : | About Rs.34.4 lakhs |
| | | |
| I. | Name of the Teacher : | Dr. B. Duary |
| II. | Name of the Project : | BBTR Project |
| III. | Sponsoring Agencies : | Crystal Crop Protection Private Limitd, Delhi |
| IV. | Amount Sanctioned : | Rs. 5.28 lakhs (two years) |

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I.	Name of the Teacher	:	Dr. B. Duary
II.	Name of the Project	:	EPJ project
III.	Sponsoring Agencies	:	Makhtesim Agan India Private Limited, Hyderabad, A.P.
IV.	Amount Sanctioned	:	Rs. 1.98 lakhs (two years)

Extension activities:

1. Delivered lecture as faculty for competency building for the field team of TATA Chemicals Ltd. At RKVK on "Paddy and summer vegetables and fruits" on "Weed management in paddy and summer vegetables" on 10.05.2012.
2. Delivered Lecture on "Integrated weed management in rice" in the farmers Training Meeting on BGREI at village Rayhati in Sainthia Block on 11.05.2012 organised by Assistant Director of Agriculture (Administration), Sainthia Block, Ahmedpur, Birbhum, Department of Agriculture, Government of West Bengal.
3. As Resource person imparted Training and delivered Lecture on "Integrated weed management" in a Training programme of Head Master/ Achiever Farmer of Farm School under ATMA organized by RKVK, Birbhum on 17.05.2012.
4. Organised Parthenium Awareness Programme at Suri-I Block in collaboration with Department of Agriculture, Govt. of West Bengal on 24.08.2012.
5. Organised a Training Programme on "use of herbicide in field crops" at Suri-I Block in collaboration with Department of Agriculture, Govt. of West Bengal on 24.08.2012.
6. Delivered a lecture on "Problem of Parthenium and integrated management" in Parthenium Awareness Programme at Suri-I Block in collaboration with Department of Agriculture, Govt. of West Bengal on 24.08.2012.
7. Delivered a lecture on "Basic considerations of herbicide use in field crops" in a Training programme at Suri-I Block organised in collaboration with Department of Agriculture, Govt. of West Bengal on 24.08.2012.
8. Organised Parthenium Awareness Programme Kirnahar Shibchandra High School on 25.08.2012.
9. Delivered a lecture on Parthenium in a Parthenium Awareness Programme at Kirnahar Shibchandra High School on 25.08.2012.
10. Delivered a lecture on "New Alien Invasive weeds" in an Awareness Programme at Kirnahar Shibchandra High School on 25.08.2012.
11. Delivered a lecture on "Problem of Parthenium and its management" in Parthenium Awareness Programme at Damdama, Birbhum organised in collaboration with NGO ABSK on 30.08.2012.
12. Delivered a lecture on "New Alien Invasive weeds" in a Awareness Programme at Damdama, Birbhum organised in collaboration with NGO ABSK on 30.08.2012.
13. Delivered an invited lecture on "Crop Planning, crop rotation, seed priming, relay cropping in relation to rabi crops in a Programme at Damdama, Birbhum organised in collaboration with NGO ABSK on 30.08.2012.
14. Organised Parthenium Awareness Programme at village Damdama, Birbhum organised in collaboration with NGO ABSK on 30.08.2012.
15. Acted as Resource Person in Farmers scientist Meet organised on the occasion of Golden Jubilee Seminar at Institute of Agriculture, Visva-Bharati on 03.09.2012.
16. Delivered Lecture as Resource Person on "Weed management in rain fed crops with special reference to West Bengal" in Training Meeting cum Workshop on diversified cropping Pattern under Dryland/Rainfed Condition on 14. 12. 2012 organised by AERC, Visva-Bharati.
17. Delivered Lecture as Resource Person on "Integrated weed management in rain fed crops" in Training Meeting cum Workshop on diversified cropping Pattern under Dryland/Rainfed Condition on 15. 12. 2012 organised by AERC, Visva-Bharati.
18. Delivered Invited Lecture on "Role of green manuring and biofertilizers in increasing Agricultural Productivity' as an expert in the Seminar for the Progressive farmers on 15.02.2013 organised by the Department of Agriculture, Govt. of West Bengal on the occasion of 'Maati Utsav' held during 09.02.2013 to 15.02.2013 at Panagarh, Burdwan.
19. Delivered Invited Lecture on "Major classes of weeds" as an expert in the Technical Workshop for In-house Field & Technical Personnel organised by the Krishi Rasayan on 21.03.2013 at Puri, Odisha.

20. Delivered Invited Lecture on "Crop based major weed problem in Assam, Bengal and Orissa with special reference to Upland crop situation and their chemical control" as an expert in the Technical Workshop for In-house Field & Technical Personnel organised by the Krishi Rasayan on 21.03.2013 at Puri, Odisha.

T.V. Programme

21. Recording (06.5.2012) and Broadcasting a Programme on "Integrated Weed management in Jute" by Dooradarshan, Krishidarsan. Date of broadcast 30.05.2012 and 01.06.2012.

Radio Programme:

Recording and broadcasting a lecture on Weed management in aman rice on 12.07.2012.

Academic Distinctions:

1. Councilor of Indian Society of Weed Science from West Bengal (2008 onwards).
2. Referee of two Professional Journal
3. Member of the Executive Committee of the Crop and Weed Science Society (2010-12).
4. Life member of
 - i) International Weed Science Society
 - ii) Indian Society of Agronomy
 - iii) Indian Society of Weed Science
 - iv) Indian Society of Agricultural Sciences
 - v) Crop and Weed Science Society
 - vi) Indian Science Congress.
5. Councilor (West Bengal) of Indian Society of Agronomy (2011-13).
6. Member, Editorial board of Indian Journal of Weed Science.
7. Member, Research Board of Visva-Bharati.
8. PG Coordinator of Agronomy, Department of ASEPAN, PSB.

Publications:

Book Chapter:

1. Bhowmick, M. K., Duary, B., Kundu, C. and Biswas, P. K. (2012). Rice Production Technologies for Sustaining Self-sufficiency and Strengthening Rural Economy in West Bengal. In: Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization, ed. Chattopadhyay, P. K. and Bhattacharya, S., New Delhi Publishers, pp.401-417.

Research papers:

1. Bhowmick, M. K., Duary, B., Biswas, P. K., Rakshit, A. and Adhikari, B. (2013). Seed priming, row spacing and foliar nutrition in relation to growth and yield of chickpea under rainfed condition. SATSA Mukhapatra - Annual Technical Issue, 17:114-119.
2. Duary, B. Hossain, A., Mondal, D. C. and Mukherjee, A. (2012). Long term effect of herbicides on weed shift and yield of rice-yellow sarson system in the lateritic soil of West Bengal, India. In: Conference Proceedings Volume 2 (ISBN Number: 978-0-9871961-1-8) of 23rd Asian-Pacific Weed Science Society Conference on Weed Management in a Changing World, pp. 38-48. (Full Paper).
3. Mondal, D. C., Duary, B. and Hossain, A. (2012). Pytosociology and seed production potential of weeds of vegetables in lateritic belt of West Bengal. In: Abstracts of Biennial Conference of Indian Society of Weed Science on Weed Threat to Agriculture, Biodiversity and Environment, held at Kerala Agricultural University, 19-20 April, 2012, p. 41.
4. Hossain, A., Duary, B. and Mondal, D. C. (2012). Chemical weed management in direct seeded dry sown rice under lateritic soil of West Bengal. In: Abstracts of Biennial Conference of Indian Society of Weed Science on Weed Threat to Agriculture, Biodiversity and Environment held at Kerala Agricultural University, 19-20 April, 2012, p. 101.
5. Rout, P., Duary, B., Dalal, S., Mukherjee, A. and Malik, S. (2012). Weed management of jute (*Corchorus olitorius* L.)

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- under lateritic soil of West Bengal. In: Book of Abstracts of Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, held at Institute of Agriculture, Visva-Bharati, Sriniketan during September, 1-3, 2012, T1-p046.
6. Soren, U., Duary, B., Malik, S., Mukherjee, A. and Dalal, S. (2012). Bioefficacy of Azimsulfuron and other herbicides in transplanted wet season rice (*Oryza sativa* L.) under lateritic soil of West Bengal. In: Book of Abstracts of Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, held at Institute of Agriculture, Visva-Bharati, Sriniketan during September, 1-3, 2012, T1-p047.
 7. Duary, B., Bhowmick, M. K., Mukherjee, A. and Ghosh, A. K. (2012). Relay Cropping of Rapeseed- a promising agrotechnique in West Bengal. In: Book of Abstracts of Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, held at Institute of Agriculture, Visva-Bharati, Sriniketan during September, 1-3, 2012, T1-p049.
 8. Mukherjee, A. and Duary, B. (2012). Phytosociological analysis of weed flora in wet season rice of Birbhum and Burdwan districts of West Bengal. In: Book of Abstracts of Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, held at Institute of Agriculture, Visva-Bharati, Sriniketan during September, 1-3, 2012, T1-p041.
 9. Bhowmick, M. K., Roy, S. K., Duary, B., Biswas, P. K. and Majumdar, K. (2012). Optimization of potash and sulphur doses for yield and maximization in hybrid sunflower (*Helianthus annuus* L.). In: Book of Abstracts of Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, held at Institute of Agriculture, Visva-Bharati, Sriniketan during September, 1-3, 2012, T1-p032. (Poster Award)
 10. Duary, B. and Mukherjee, A. (2012). Distribution of weeds in West Bengal, India with special reference to alien invasive weeds. In: Proceedings of the 6th International Weed Science Congress, Organised by International Weed Science Society held at Hangzhou, China, June, 1-3, 2012, p.126.
 11. Bhowmick, M. K., Duary, B., Biswas, P. K. and Bag, M. K. (2012). Weeds as alternate hosts of plant pathogens and their management. In: Abstracts of National Symposium on "Plant microbe interactions and crop health management", Oct. 06-07, 2012, Department of Plant Protection, Palli-Siksha Bhavana, Visva-Bharati, Sriniketan, Birbhum, W.B. p. 45.
 12. Duary, B., Ghosh, D., Mukherjee, A. and Ghosh, P. K. (2012). Response of sesame (*Sesamum indicum* L.) varieties to nipping under varying levels of plant density. In: Proceedings of Third International Agronomy Congress on "Agriculture Diversification, Climate Change Management and Livelihoods" organised by Indian Society of Agronomy held at IARI, Pusa Campus, New Delhi, November, 26-30, 2012, pp.1222 -1223. (Extended summary).
 13. Duary, B., Ghosh, A. K. and Hazra, D. (2013). Effect of different levels of nitrogen and foliar spray of DAP on yellow sarson grown as utera crop in rice-yellow sarson cropping system. In: Proceedings of the First International Conference on Bioresource and Stress Management organised by R. K. Maiti Foundation held at Science City, Kolkata, 6-9 February, 2013. p. 19 (c 3.18).
 14. Bhowmick, M. K., Dhara, M. C., Kundu, C., Duary, B. and Biswas, P. K. (2013). Productivity improvement of rice varieties with optimum nitrogen use under deep water ecosystem in west Bengal. In: Proceedings of the First International Conference on Bioresource and Stress Management organised by R. K. Maiti Foundation held at Science City, Kolkata, 6-9 February, 2013. p. 34 (c 3.33).
 15. Bhowmick, M. K., Duary, B., Adhikari, B. and Biswas, P. K. (2013). Studies on seed priming and urea spray in chickpea (*Cicer arietinum* L.). In: Book of Abstracts of the National Symposium on "In Quest of a Second Green Revolution" organised by The Agricultural Society of India, Institute of Agricultural Science, University of Calcutta., Kolkata, 26-28 February, 2013. pp. 53-54.
 16. Bhowmick, M. K., Duary, B., Biswas, P. K., Adhikari, B. and Jana, T. K. (2013). Low-cost technologies for productivity improvement of lentil in West Bengal. In: Abstracts of Papers of the 20th West Bengal State Science and Technology Congress, Feb. 28-Mar. 02, 2013, Bengal Engineering and Science University, Shibpur, Howrah, West Bengal. pp. 179.
 17. Bhowmick, M. K., Duary, B. and Bhattacharyya, P. (2013). Integrated weed management under different methods of

- rice establishment. In: Abstract of the National Seminar on Echoes of Silent Spring: Human Impact on Environment organised by the Department of Environmental Studies, Visva-Bharati, Santiniketan, 9th March, 2013. p. 30.
18. Bhowmick, M. K., Dhara, M. C., Duary, B., Roy, S. K., Saha, S., Bhadra, K. K., Bhattacharyya, P. and Biswas, P. K. (2013). System of Rice Intensification: Towards achieving more outputs with less input. In: Abstract of the National Seminar on "Changing Rural Scenario in the New Millenium" organised by the Department of Palli Charcha Kendra (Social Studies and Rural Development), Visva-Bharati, Sriniketan, 22-23 March, 2013. p. 19.
 19. Bhowmick, M. K., Dhara, M. C., Duary, B. and Bhadra, K. K. (2013). Nursery management for achieving higher productivity of hybrid rice. In: Abstract of the National Seminar on Recent Advances in Rice Genomics and Biotechnology organised jointly by the Department of Biotechnology and Palli Siksha Bhavana, Visva-Bharati, Santiniketan, 23-24 March, 2013. pp. 24-25.
 20. Duary, B., Bhowmick, M. K. and Mukherjee, A. (2012). Weed problem and importance of weed management in cultivated land (in Bengali). Saar Samachar, 50 years, No. 1, pp. 25-28.
 21. Duary, B., Mondal, D. C and Hossain, A. (2012). Weed management in oilseed crop (In Bengali). Technical Extension Bulletin of DWSR Visva-Bharati Centre.
 22. Duary, B., Mondal, D. C and Hossain, A. (2012). Biological control of Parthenium (In Bengali). Technical Extension Bulletin of DWSR Visva-Bharati Centre.
 23. Duary, B. Mondal, D. C. and Hossain, A. (2012). Weed management in pulse crop (In Bengali). Technical Extension Bulletin of DWSR, Visva-Bharati centre.
 24. Duary, B. Mondal, D. C. and Hossain, A. (2012). Weed management in sesame (In Bengali). Technical Extension Bulletin of DWSR, Visva-Bharati centre.
 25. Duary, B., Mondal, D. C and Hossain, A. (2012). Problem of Parthenium and integrated management (In Bengali). Technical Extension Bulletin of DWSR Visva-Bharati Centre.

G.C.Malik,

Associate Professor

National and International standard Conference/Seminar/Workshop/Exhibition:

1. Participated and presented paper in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012.
2. Acted as Rapporteur in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012.
3. Acted as Treasurer in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012.
4. Attended and presented a paper in the 100th Indian Science Congress organized by Indian Science Congress Association, held at Calcutta University, Kolkata, during January 3 to 7, 2013
5. Participated and presented paper in the International Symposium on Bio-resource and Stress management held at Kolkata from 6th to 9th February, 2013.

Ongoing Research Projects

- V. Name of the Teacher : Dr. G.C.Malik
- VI. Name of the Project : GIS based spatial variability mapping of agricultural holdings for precision nutrient management in red and lateritic soil zone
- VII. Sponsoring Agencies : International Plant Nutrition Institute
- VIII. Amount Sanctioned : About

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Extension Activities:

Radio/TV programme

1. Participated in a discussion on "Potato Cultivation" for Doordarshan, Santiniketan and broadcasted on December, 2012.
2. Participated in a discussion on Sesame" for Kisan Bani Programme of FM Radio, Santiniketan and broadcasted on February, 2008

Publication: Patra, P., Pati, B. K., Gosh, G. K., Mondal, S., Malik, G. C. and Biswas, P. K. 2012. Oxidation pattern of elemental sulphur as affected by levels of sulphur, organic matter and liming in a typical lateritic soil of West Bengal. *Journal of Crop and Weed*, 8(2):29-31

Biswas, P. K., Bhowmick, M.K., Malik, G. C., Banerjee, Mahua, Ghosh, G.K. and Mitra, S.R. (2012). "Synergistic Effect of Rhizobium Inoculation with Co-inoculants on Growth and Yield of Lentil (*Lens culinaris* Medikus)" *International Journal of Bio-resource and Stress Management*. 3(1): 044-047

Biswas, P. K., Bhowmick, M.K., Banerjee, Mahua, and Malik, G. C. (2012). "Symbiotic effectivity of different Rhizobium Strains on Growth, Nodulation and Seed Yield of Lentil in Gangetic Alluvial Zone of West Bengal "SATSA Mukhapatra annual technical issue Vol.16: 89-93

Malik, G.C., Banerjee (Maiti), M and Shankar, T (2013) Feasibility and Economic viability of Jute Seed Production in Lower Gangetic plains of West Bengal, SATSA Mukh. Ann. Tech. Iss, Vol-17:120-126.

G.C. Malik, Wasim Iftikar, M. Banerjee and D.C. Ghosh. Effect of Irrigation, Variety and Nitrogen on Growth and Productivity of Wheat (*Triticum aestivum* L.) in the Lateritic Belt of West Bengal. Volume-3, Number-2, June- 2012, pp. 158-164.

B.K. Pati, P. Patra, G.K. Ghosh, S. Mondal, G.C. Malik and P.K. Biswas. Efficacy of phosphogypsum and magnesium sulphate as sources of sulphur to sesame (*sesamum indicum* L.) in red and lateritic soils of West Bengal. *Journal of crop and weed* 7(1): 1-4(2011) pp. 133-135.

Book Chapter:

1. Hensh, S and Banerjee, M, Malik, G.C and Mandal, S 2012. Effect of Fertilizer Management and Spacing on Yield and Economics of Kharif Cotton (*Gossypium hirsutum* L.) under Lateritic Belt of West Bengal, In: Sustainable Agriculture and Environment, ed. Kazi Mb Rahim, Debashish Sarkar, Bidhan Chandra Roy, New Delhi Publishers, pp. 93-100.

Research papers:

1. Malik, G.C., Das, S and Banerjee, M 2012. "Effect of nutrient management on the growth and yield of potato under lateritic belt of West Bengal". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P029.
2. Mookherjee, S, Malik, G.C., and Banerjee, M 2012. "Effect of integrated nutrient management and seed treatment on the productivity of Rapeseed Mustard under Terai region of West Bengal". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P035.
3. Bera, S.K., Banerjee, M., Malik, G.C. and Biswas, P.K. 2012. "Effect of nutrient management on the growth and productivity of Wheat (*Triticum aestivum*) in the Red and Lateritic belt of West Bengal". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P036.
4. Biswas, P.K., Bhowmick, M. K, Banerjee, M and Malik, G.C. 2012. "Response of lentil (*Lens culinaris*) to seed inoculation and foliar nutrition in respect of growth, nodulation and productivity". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P038.

5. Shankar, T., Malik, G.C., Banerjee, M., Ghosh, A. and Zodape, S.T. 2012. "Effect of foliar spray of liquid sea weed extracts on the growth and productivity of Sesame (*Sesamum indicum*) in the Red and Lateritic belt of West Bengal". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P052.
6. Ghosh, A., Malik, G.C., Banerjee, M., Ghosh, A. and Zodape, S.T. 2012. "Effect of foliar spray of sea weed extracts on the productivity of Blackgram (*Vigna mungo*)". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P053.
7. Show, R, Malik, G.C., Banerjee, M., and Ghosh, D.C. 2012. "Effect of water regime, variety and nitrogen on growth, productivity and economics of summer rice". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P058.
8. Mohanta, S., Banerjee, M. and Malik, G.C. 2012. "Effect of different levels of biofertilizer and chemical fertilizer application on the performance of Wheat (*Triticum aestivum*) in the Red and Lateritic belt of West Bengal". In Abstracts in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012 pp. T1P059.
9. Shankar,T., Malik,G.C., Banerjee, M., Ghosh, A., Zodape,S.T., 2013. "Oil Yield, Nutrient Uptake and Productivity of Sesame (*Sesamum indicum*.L) as Influenced by Foliar Spray Of Liquid Sea Weed Extracts under the Red and Lateritic Belt of West Bengal". In Abstracts in the First International conference on Bio-Resource and Stress management Organized by Ratikanata Maiti foundation during February, 6-9, 2013 at Kolkata, p.p 3.6
10. Jasimuddin,S.K., Banerjee,M., Malik, G.C. , Mondal,S., Ghosh, D.C.2013."Effect of Integrated Nutrient Management on the productivity of Sesame and soil fertility status in the Red and Lateritic soils of West Bengal". In Abstracts in the First International conference on Bio-Resource and Stress management Organized by Ratikanata Maiti foundation during February, 6-9, 2013 at Kolkata, p.p 3.8
11. Mandal,M.K., Banerjee,M., Malik, G.C. 2013. "Studies on Intercropping of Kharif Maize with Groundnut and Soybean on the Yield, Competition and Economics of the Crops in the Red and Lateritic Zone of West Bengal". In Abstracts in the First International conference on Bio-Resource and Stress management Organized by Ratikanata Maiti foundation during February, 6-9, 2013 at Kolkata, p.p 3.9
12. Biswas, P.K., Bhowmick, M. K., Malik, G.C., Banerjee, M, Mandol,S. and Ghosh, G.K. 2013 . "Effect of Phosphorous and Biofertilizer on Growth and Productivity of Lentil (*Lens culinaris* M.) in Lateritic Zone of West Bengal". In Abstracts in the First International conference on Bio-Resource and Stress management Organized by Ratikanata Maiti foundation during February, 6-9, 2013 at Kolkata, p.p 3.25

Academic Distinction:

Life member of eight Professional Societies of Agricultural Science of National level.

Other relevant information

S. K. Maity

Conference/Seminar/ Workshop/Exhibition etc. attended

1. Participated and presented a research paper on "Productivity and profitability of direct seeded rainfed rice under different methods of sowing and seed priming" in ARRW Golden Jubilee International Symposium on Sustainable Rice Production and Livelihood Security: Challenges and Opportunities held during 2-5 March, 2013 at CRRI, Cuttack.

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2. Participated and delivered an oral presentation of a research paper on "Productivity of Direct Seeded Rice Under Moisture Stress Condition - an experience with different methods of sowing and seed" in National Symposium on Biotic and Abiotic Stresses in Plants under Changing Climate Scenario held during 29-30 November, 2012 at UBKV, Coochbehar.
3. Participated and presented a research paper on "Effect of nitrogen management and seed priming with GA3 on the production of baby corn" in Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance held during 1 - 3 September, 2012 at Palli Siksha Bhavana, Visva-Bharati, Sriniketan.
4. Participated in one day seminar on "Active Citizenship & cultural Transparency" held on November 18, 2012 at Santiniketan organized by Liberal Youth Forum in association with Alexis Centre for Agriculture and rural Development.
5. Participated in a workshop on "Rabindranath and Santiniketan" held during 10th & 24th February, 2013 organized by Tagore Studies Unit, Visva-Bharati.

Extension activities

2. Delivered lecture on Soil Moisture Conservation Techniques in a workshop on 17.08.2012 for the Beat Officers at Divisional Forest Office at Suri, Birbhum.
3. Participated as resource person in the Training Meeting cum Workshop on "Diversified Cropping Pattern under Dryland/Rainfed condition" held during 13-15 December, 2012 at Agro-Economic Research Centre, Visva-Bharati and presented a paper entitled "Agro-techniques in Soil Moisture Conservation and Rain Water management".
4. Participated in Krishi Darshan programme on Rain water conservation and water management telecast on 11.08.2012 as expert.
5. Participated in Krishi Darshan programme on Baby Corn Cultivation telecast on 04.06.2012 as expert.
6. Acted as a resource person in a Farmers Training meeting at Panagarh under sub-Divisional Level Krishi Mela on 15.01.2013.

Publications:

1. Chowdhury, P K, Setua G C, Kar R, Maity S K and Ghosh A (2012). Efficacy of vermicompost on sustainable quality leaf production in mulberry. *J. Soil Biol. Ecol.* 32(1&2): 177-191.

Academic Distinctions gained:

10. Attended a Short Course on "Modern Monitoring Tools for Enhanced Resource Use Efficiency in Rainfed Agriculture" organized by the Central Research Institute for Dryland Agriculture (CRIDA) at Hyderabad during the period of 04 - 13 October, 2012.
11. Serving as member, Central Admission Committee, Visva-Bharati
12. Life Member of Indian Society of Agronomy, IARI, New Delhi
13. Technical and Associate Professional Member of Fertiliser Association of India, New Delhi
14. Acted as external examiner of some University.

Mahua Banerjee

National and International standard Conference/Seminar/Workshop/Exhibition:

1. Participated and presented paper in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012.
2. Participated and acted as rapporteur in One day seminar on Nutrient management in Crops for Sustainable Agriculture- Present Status and Future Need conducted by IPNI in collaboration with NBSS & LUP, ISSS and BCKV at Seminar Hall, NBSS & LUP, Salt Lake, Kolkata on 24th August, 2012
3. Acted as Rapporteur in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012.

4. Acted as Editorial Board member in the Golden Jubilee Seminar on Advances in Agricultural research towards Food Security and environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, Sriniketan, West Bengal, India in collaboration with International Plant Nutrition Institute during 1-3rd September, 2012.

Ongoing Research Projects

- IX. Name of the Teacher : Dr. M.Banerjee
 X. Name of the Project : Evaluation of fertilizer potential of Sea weed saps on different crops
 XI. Sponsoring Agencies : CSIR- Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat
 XII. Amount Sanctioned : About 8.52 lakhs (2012-13)

Extension Activities:

Radio/TV programme

3. Participated in a discussion on "Vermicompost" for Doordarshan, Santiniketan and broadcasted on August, 2012.
4. Participated in a discussion on "Chinabadam chas" for Kisan Bani Programme of FM Radio, Santiniketan and broadcasted on 28.08.12.
5. Participated in a live phone in programme on "Dal Sasyer chas" for Kisan Bani Programme of FM Radio, Santiniketan and broadcasted on 05.05.12.
6. Participated in a discussion on "Sarshe chas" for Kisan Bani Programme of FM Radio, Santiniketan and broadcasted on 16.10.12.
7. Participated in a discussion on "Jibanusar" for Kisan Bani Programme of FM Radio, Santiniketan and broadcasted on 18.02.13.

Academic Distinction:

Assistant Chief Editor of an International Journal

Life member of five Professional Societies of Agricultural Science of National level.

Publication:

Book Chapter:

2. Banerjee, M 2012. Soil and Water Resource Management for sustained Food Security. In: Sustainable Agriculture and Environment, ed. Kazi Mb Rahim, Debashish Sarkar, Bidhan Chandra Roy, New Delhi Publishers, pp. 1-18.
3. Bera, S.K and Banerjee, M 2012. Water Harvesting for Sustainable Agriculture. In: Sustainable Agriculture and Environment, ed. Kazi Mb Rahim, Debashish Sarkar, Bidhan Chandra Roy, New Delhi Publishers, pp. 47-64.
4. Mandal, M.K and Banerjee, M 2012. Biofertilizers and Sustainable Agricultural Development. In: Sustainable Agriculture and Environment, ed. Kazi Mb Rahim, Debashish Sarkar, Bidhan Chandra Roy, New Delhi Publishers, pp. 65-92.
5. Hensh, S and Banerjee, M, Malik, G.C and Mandal, S 2012. Effect of Fertilizer Management and Spacing on Yield and Economics of Kharif Cotton (*Gossypium hirsutum* L.) under Lateritic Belt of West Bengal, In: Sustainable Agriculture and Environment, ed. Kazi Mb Rahim, Debashish Sarkar, Bidhan Chandra Roy, New Delhi Publishers, pp. 93-100.

Research papers:

1. Maiti, D and Banerjee (Maiti), M. (2013) Hybrid Rice seed Production Technology, SATSA Mukh. Ann. Tech. Iss, Vol-17:100-113.
2. Malik, G.C, Banerjee (Maiti), M and Shankar, T (2013) Feasibility and Economic viability of Jute Seed Production in Lower Gangetic plains of West Bengal, SATSA Mukh. Ann. Tech. Iss, Vol-17:120-126.
3. G.C. Malik, Wasim Iftikar, M. Banerjee and D.C. Ghosh. Effect of Irrigation, Variety and Nitrogen on Growth and Productivity of Wheat (*Triticum aestivum* L.) in the Lateritic Belt of West Bengal. Volume-3, Number-2, June- 2012, pp. 158-164.

Other relevant information

- i) Acting as NSS Programme officer.

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K. Pramanik

Conference/Seminar/ Workshop/Exhibition etc. attended

Participated and Presented Paper

1. Participated and presented paper in the National Seminar on "Advances in Agricultural Research towards Food security and Environmental Sustenance" organized by Palli Siksha Bhavana, Visva-Bharati, September 01-03, 2012.
2. Participated and presented paper in the National Symposium on "Plant Microbe Interactions and Crop Health Management" organized by Department of Plant Protection, PSB in collaboration with Indian Phytopathological Society, at Visva-Bharati, West Bengal, October 6-7, 2012.
3. Participated and presented paper in The First International Conference on Bio-resource and Stress Management organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013

Ongoing Research Projects in the Department:

- i. Name of the projects:
 - a) Trial on different grades of customized fertilizers on growth and yield of aman as well as boro paddy
 - b) Trial on different grades of customized fertilizers on growth and yield of potato
- ii. Sponsoring Agencies: IndoGulf Fertilizers for project (a) & (b)
- iii. Amount Sanctioned
 - a) Rs. 77,000/- for project "a"
 - b) Rs. 71,500/- for project "b"

Extension activities

1. Delivered a talk on "Amandhaner bijtala tairi-o-kharif marsume beguner bijtala tairi" for Kisan Vani programme of F. M. Radio, Santiniketan and broadcast on June 16, 2012.
2. To participate in the krishidarshan program on paddy seed bed preparation and treatment as an expert" for DDK, Santiniketan and telecast on June 25, 2012.
3. Delivered a talk on "Robi Toila -beejer Madhya barti kaleen Paricharya" for Kisan Vani programme of F. M. Radio, Santiniketan and broadcast on November 29, 2012.
4. Delivered a lecture on "Modern practices of Moong Cultivation" in the Farmers' training under ATMA as a resource person organized by Assistant Director of Agricultural, Ausgram-I Block, Burdwan at Utka GP Meeting Hall 22nd January, 2013.
5. Conducted coaching classes on Agronomy for the outgoing students of B. Sc. (Ag.) Hons. Sem-VIII of 2012-13 for ICAR conducted JRF examination-2013.

Academic Distinctions gained:

1. Life Member of Indian Society of Agronomy, IARI, New Delhi
2. Life Member of Crop and Weed Science Society, BCKV, Nadia, West Bengal
3. Life Member of Indian Society of Soil Biology and Ecology, Bengaluru
4. Serving as a Member of Anti-Ragging Committee, PSB, Visva-Bharati.
5. Serving as a Member of Anti-Ragging squads, PSB, Visva-Bharati.
6. Awarded "Young Scientist Award" in "The First International Conference on Bio-resource and Stress Management" organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013.
7. The paper entitled "Rethinking of Sundarban Mangrove through Community Participation" by Chandan Kumar Mondal, Bholanath Mondal, N. C. Sarkar, R K Mait, Kalipada Pramanik and H. Gonzalez Rodriguez was selected as best poster under the category of Biodiversity, Forestry and Biogeography in "The First International Conference on Bio-resource and Stress Management" organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013.
8. The paper entitled "Influence of Biofertilizers and Homo-Brassinolide on Growth, Chlorophyll content and Yield of Lentil (*Lens culinaris* Medik) under Lateritic Belt of West Bengal" by A. K., Bera, Soma, Mukherjee, Anirban, Roy and

- K. Pramanik, was selected as best poster under the category of Crop diversification, soil health and sustainable agriculture in "The First International Conference on Bio-resource and Stress Management" organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013.
9. Acted as Programme Coordinator in "The First International Conference on Bio-resource and Stress Management" organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013.
 10. Acted as convener in the Technical session of Crop diversification, soil health and sustainable agriculture in "The First International Conference on Bio-resource and Stress Management" organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013.

Full papers

1. Pramanik, K., Bera, A. K. and Saren, B.K. 2012. Response of biofertilizers and phytohormone on growth and yield of hybrid groundnut (*Arachis hypogaea* L.). *Journal of Interacademia*. 16 (1):59-64.
2. Pramanik, K. and Bera, A.K. 2012. Influence of Biofertilizers and Homobrassinolides on Nodulation, Yield and Quality of Groundnut (*Arachis hypogaea* L.). *International Journal of Bio-resource and Stress Management*. 3(1):56-58.
3. Bera, A.K. and Pramanik, K. 2012. Response of Hybrid Rice (*Oryza sativa* L.) to Varying Levels of Nitrogen and Homo-brassinosteroids in Laterite Zone of West Bengal. *International Journal of Bio-resource and Stress Management*. 3(2):164-167.
4. Panda, D., Pramanik, K. and Nayak, B.R. 2012. Use of Sea Weed Extracts as Plant Growth Regulators for Sustainable Agriculture. *International Journal of Bio-resource and Stress Management*. 3(3):164-167.
5. Mandal. T. K., Puste. A. M., Pramanik. K. and Ray. K. 2012. Effect of mulching and pre - sowing seed treatment with agro- chemicals on the growth and yield of sesame (*Sesamum indicum* L.) under rainfed situation. *Journal of Interacademia*. 16 (3): 626-629.
6. Pramanik, K. and Bera, A.K. 2012. Response of Biofertilizers and Phytohormone on growth and yield of chickpea (*Cicer arietinum* L.). *Journal of Crop and Weed*. 8 (2): 45-49
7. Pramanik, K. and Bera, A.K. 2012. Response of different nitrogen levels and homo-brassinolide on yield and economics of hybrid rice (*Oryza sativa* L.). *Journal of Crop and Weed*. 8 (2): 86-90.

D.Panda

Conference/Seminar/ Workshop/Exhibition etc. attended

Participated and Presented Paper

1. Participated and presented paper in the National Seminar on Advances in Agricultural Research towards Food security and Environmental Sustenance organized by Palli Siksha Bhavana, Visva-Bharati, September 01-03, 2012.
2. Participated and presented paper in the National Symposium on Plant Microbe Interactions and Crop Health Management organized by Department of Plant Protection, PSB in collaboration with Indian Phytopathological Society, at Visva-Bharati, West Bengal, October 6-7, 2012.
3. Participated and presented paper in The First International Conference on Bio-resource and Stress Management organized by Ratikanta Maiti Foundation at Science City, Kolkata, West Bengal, India, February 6-9, 2013
4. Participated and presented paper in National Seminar on Recent Advances in Rice Genomics and Biotechnology jointly organized by Department of Biotechnology, Siksha Bhavana and Palli Siksha Bhavana, Visva-Bharati held at Santiniketan during 23-24 March, 2013.
5. Participated and presented paper in National Seminar on Echoes of Silent Spring: Human Impact on Environment organized by Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March 2013.

Extension activities

1. Conducted coaching classes on Agronomy for the outgoing students of B. Sc. (Ag.) Hons. Semester VIII of 2012-13 for ICAR conducted JRF examination-2013.

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Academic Distinctions gained:

1. Life Member of Indian Society of Plant Physiology, IARI, New Delhi
2. Life Member of Crop and Weed Science Society, BCKV, Nadia, West Bengal
3. Life Member of Indian Society of Soil Biology and Ecology, Bengaluru
4. Serving as a Member of Anti-Ragging Committee, PSB, Visva-Bharati.
5. Serving as a Member of Anti-Ragging squads, PSB, Visva-Bharati.
6. Acted as member of Executive Committee "Recent Advances in Rice Genomics and Biotechnology jointly organized by Department of Biotechnology, Siksha Bhavana and Palli Siksha Bhavana, Visva-Bharati held at Santiniketan during March 23-24, 2013.

Publications of the year April 2012 - March 2013

Full papers

1. Panda, D., Pramanik, K. and Nayak, B.R. 2012. Use of Sea Weed Extracts as Plant Growth Regulators for Sustainable Agriculture. *International Journal of Bio-resource and Stress Management*. 3(3):164-167.
2. Sen, A., Panda, D., Ghosh, D. C. and Pramanik, K. 2012. Effect of Moisture Stress and Growth Regulators on Growth and Yield of Chickpea (*Cicer arietinum* L.). *International Journal of Bio-resource and Stress Management*. 3(4):481-488

Goutam Kumar Ghosh

Seminar Attended:

National:

- Attended National Seminar on "National Symposium on Plant Microbe Interactions and Crop Health Management," 6-7th October, 2012., Visva-Bharati, Santiniketan, Birbhum, West Bengal, India,
- Attended National Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustainment", 1-3rd September, 2012, Visva-Bharati, Santiniketan, Birbhum, West Bengal, India.

Publications>(* International)

G. K. Ghosh

1. Goutam Kumar Ghosh and Nishi Ranjan Dash. 2012. Sulphate Sorption-Desorption Characteristics of Lateritic Soils Of West Bengal, India. *International Journal of Plant, Animal and Environmental Sciences* 2(1): 167-276.
2. Biswas, P.K., Bhowmik, M. K., Malik, G.C., Banerjee Mohua, Ghosh, G.K and Mitra, S.R. (2012) Synergistic effect of Rhizobium inoculation with co-inoculants on growth and yield of Lentil (*Lens culinaris* Medikus). *International Journal of Bio-resource and Stress Management* 2012, 3(1), 044-047.
3. Paritosh Patra, Suchhanda Mondal and Goutam Kumar Ghosh . 2012. Status of available Sulphur In Surface and Sub-Surface Soils of Red and Lateritic Soils of West Bengal. *International Journal of Plant, Animal and Environmental Sciences* 2(2): 276 - 281.
4. Dash N R and Ghosh G K .2012. Efficacy of Gypsum and Magnesium Sulphate as Sources of Sulphur to Rapeseed in Lateritic Soils. *Journal of Plant Nutrition*, 35 (14): 2156 - 2166.
5. Somnath Chattopadhyay and Goutam Kumar Ghosh .2012. Response of Rapeseed (*Brassica juncea* L.) to various Sources and Levels of Sulphur in Red and Lateritic Soils of West Bengal, India. *International Journal of Plant, Animal and Environmental Sciences* 2(4): 50 -59.
6. Patra P, Mondal S and Ghosh GK. 2012. Distribution of Sulphur Fractions in Surface and Sub-surface Soils of Red and Lateritic Soils of West Bengal. *Indian Agriculturist* 56 (1&2):1-7.
7. P. Patra, B. K. Pati, G. K. Ghosh, S. Mondal, G. C. Malik and P.K. Biswas (2012) Oxidation pattern of elemental sulphur as affected by levels of sulphur, organic matter and liming in a typical lateritic soil of West Bengal. *Journal of Crop and Weed* 8(2): 29-31.

Pabitra Kumar Biswas**Seminar Attended:****International:**

- ❖ Attended International Seminar on "Bio-resource and stress Management" on Feb., 6-9, 2013 at Science City, Kolkata, West Bengal, India,

National:

- ❖ Attended and presented paper in the West Bengal State Science and Technology Congress, Feb.28- March 02, 2013, Bengal Engineering University and Technology, Shibpur, Howrah
- ❖ Attended National Seminar on "National Symposium on Plant Microbe Interactions and Crop Health Management," 6-7th October, 2012., Visva-Bharati, Santiniketan, Birbhum, West Bengal, India,
- ❖ Attended National Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustainment", 1-3rd September, 2012, Visva-Bharati, Santiniketan, Birbhum, West Bengal, India.

Publications**❖ Full Length Research paper:**

Patra, P., Pati, B. K., Gosh, G. K., Mondal, S., Malik, G. C. and Biswas, P. K. 2012. Oxidation pattern of elemental sulphur as affected by levels of sulphur, organic matter and liming in a typical lateritic soil of West Bengal. *Journal of Crop and Weed*, 8(2):29-31

Biswas, P. K., Bhowmick, M.K., Malik, G. C., Banerjee, Mahua, Ghosh, G.K. and Mitra, S.R. (2012). "Synergistic Effect of Rhizobium Inoculation with Co-inoculants on Growth and Yield of Lentil (*Lens culinaris Medikus*)" *International Journal of Bio-resource and Stress Management*. 3(1): 044-047

Designing New Course/Curricula:

Actively participated in designing new syllabus for UG and PG

Y. Vasudeva Rao**Seminar attended & gave presentations:**

- International:
- International Seminar on "Bio-resource and stress Management"; Feb. 6-9, 2013; Science City, Kolkata, West Bengal, India,
- Global Meet of Biologists; Dec. 26-28, 2012; Indian Institute of Chemical Biology & Osmania University, Hyderabad.
- Biofest-2012; Dec. 12-13, 2012; Bright International Conferences & Events, Hyderabad.
- **National:**
- National Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustainment"; Sept. 1-3, 2012; Visva-Bharati, Santiniketan, West Bengal, India,

Publications

- Research papers in Journals:
- Y. Vasudeva Rao. Determination of antigen-specific antibody levels in fish serum by ELISA. *International Journal of Bioassays* 2013 (Accepted).
- R. Chakrabarti and Y. V. Rao. *Achyranthes aspera* enhances immunity and antigen clearance in common carp, *Cyprinus carpio* L. *Journal of Fish Diseases* 2012; 35: 389-392.
- Abstract Publications in Conferences/Seminars:
- Y. Vasudeva Rao. Anti-allergic activity of an indigenous plant source. First International Conference on Bio-resource and Stress Management, 2013. Book of Abstracts.

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- Y. Vasudeva Rao and Rina Chakrabarti. Improvement of the immunity to enhance the antigen clearance in *Cyprinus carpio* by an indigenous plant source, Global Meet of Biologists 2012. Book of Abstracts.
- Y. Vasudeva Rao and Rina Chakrabarti. Improvement of immunity in *Labeo rohita* by using an indigenous plant source. Biofest-2012. Book of Abstracts.
- Y. Vasudeva Rao and Rina Chakrabarti. *Achyranthes aspera* enhances the efficiency of antigen clearance and disease resistance in *Labeo rohita*. Golden Jubilee Seminar on "Advances in Agricultural Research towards Food security & Environmental sustenance", 2012. Book of Abstracts, Paper NO: T4-P017.

P. KANDASAMY

Full Research Paper Published

1. Kandasamy, P., Varadharaju, N., Kalemullah, S and Maladhi, D (2012) Optimization of process parameters for foam-mat drying of papaya pulp. *Journal of Food Science and Technology*, DOI 10.1007/s13197-012-0812-y.
2. Kandasamy, P., Varadharaju, N., Kalemullah, S and Moitra, R. (2012) Production of papaya powder under foam-mat drying using methyl cellulose as foaming agent. *Asian Journal of Food and Agro Industry*, 5(5): 374-387.
3. Kandasamy, P., Moitra, R and Mukherjee, S. (2012) Diffusion channel system for enhancing the shelf life of fruits and vegetables under controlled/modified atmosphere. *International Journal of Bio-resource and Stress Management*, 3(3):394-403.
4. Kandasamy, P., Varadharaju, N and Kalemullah, S. (2012) Foam-mat drying of papaya (*Carica papaya* L.) using glycerol mono-stearate as foaming agent. *Food science and quality Management*, 9: 17-27.
5. Kandasamy, P., Varadharaju, N., Kalemullah, S and Moitra, R. (2012) Preparation of papaya powder under foam-mat drying technique using egg albumin as foaming agent. *International Journal of Bio-resource and Stress Management*, 3(3):324-331.

Book Published

1. Kandasamy, P. (2013) *Studies on Foam-Mat Drying of Papaya (Carica papaya) Fruit*. Published by LAB LAMBERT Academic Publishing, Saarbrucken, Germany. ISBN: 978-3-659-37432-6.

Paper Presented in Seminar/Conference/Symposium

1. Participated and presented a paper entitled "Advances in drying and dehydration of fruits and vegetables-a function of food security" in the Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance held at the Institute of Agriculture, Visva-Bharati, Sriniketan during 1-3 September 2012.
2. Participated and presented a paper entitled "Effect of drying air temperature on biochemical quality of foam-mat dried papaya powder" in the National Seminar on Echoes of Silent Spring: Human impact on Environment held at the Department of Environmental Studies, Visva-Bharati, Santiniketan on 9th March, 2013.

International Articles Reviewed

1. Manuscript number GRJABS-12-238 entitled: "Effect of Chemical Preservatives on Service Life of Selected Wood Species Treated against Pests and Diseases" for *Global Research Journal of Agricultural and Biological Sciences (GRJABS)*.
2. Manuscript number HJAFSR-13-027 entitled "Entrepreneurial Skills Required by Women Retires for processing of Pineapple Fruit into Juice as a Sustainable Business in Enugu State" for *Herald Journal of Agricultural and Food Science research (HJAFSR)*.
3. Manuscript number JAED-12-049 entitled "The Causes of Post harvest Loses for Different Agricultural Products in Nigeria" for *Journal of Agricultural Economics and Development (JAED)*.

Membership in Scientific Society

1. Life member of the Association of Food Scientists and Technologists (India), Mysore.
2. Life member of the Indian Society of Agricultural Engineers, New Delhi.

Extension Activities

1. Stall in-charge in the theme "Farm Mechanization" at Sriniketan Mela during 6-8 February 2013.
2. Conducted RAWE programmes on Farm machineries, Irrigation facilities and Postharvest technology at different villages in the Birbhum District.

Kishore C. Swain

Peer reviewed Publications

- Swain, K.C., Moitra, R. and Q.U. Zaman (2013). Weed identification using in ultrasonic sensors, Bio-resource and Stress Management Journal. (Accepted).
- Swain, K.C. and Q.U. Zaman (2012). Rice crop monitoring with unmanned helicopter remote sensing images, Remote Sensing of Biomass: Principles and Applications, Vol. I, ISBN 978-953-307-177-0, Intech Publishers.

Selected Conference Papers

- Swain, K.C. (2012). Impact of climate change on rice cropping, Golden Jubilee Conference, Visva-Bharati University, West Bengal, India 1-3 September 2012.
- Swain, K.C., Moitra, R. and Q.U. Zaman (2013). Sensor-based weed identification in wild blueberry, In the international conference of Bio-resource and Stress Management, held at Kolkata during 6-9 February, 2013.
- Swain, K.C., and D. Panda (2013). Rice yield prediction in DSSAT using PRECIS climate model, In the national seminar on "Recent Advances in Rice Genomics and Biotechnology" Jointly organized by Department of Biotechnology and Palli Siksha Bhavana, held at Visva-Bharati, Santiniketan during 23-24 March, 2013.

Membership/Committee

Life member of Asian Association of Agricultural Engineers (AAAE).

Member of American Society of Biological and Agricultural Engineers (ASABE).

Extension activity

Organizing committee member of Mag-Mela 2013 held during 6-8 March 2013.

Organizing co-coordinator of PSB stall with theme on "Farm Mechanization" of Mag-Mela 2013 held during 6-8 March 2013.

Organizing committee member of the Golden Jubilee Seminar held at Palli Siksha Bhavana, Visva-Bharati, Sriniketan during 01-03 September, 2012.

Conducted coaching classes on Agri-Business Management for the outgoing students of B. Sc. (Ag.)Hons. Semester VIII of 2012-13 for ICAR conducted JRF examination-2013.

Paper reviewed

YBENG-D-12-00381 (2012). Performance comparison of Fourier transform and its derivatives as shape descriptors for mango grading, Biosystems Engineering.

PM-10059-2012 (2012). Attitudes and spray patterns of a roll-balanced agricultural unmanned helicopter, Transaction of ASABE.

YBENG-D-12-00597: Two-Stage Approach for Detecting Slightly Overlapping Strawberries Using HOG Descriptor, Biosystems Engineering.

Suchhanda Mondal

Seminar Attended:

International:

- Attended International Seminar on " Bio-resource and stress Management" on Feb., 6-9, 2013 at Science City, Kolkata, West Bengal, India,

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National:

- Attended National Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance", 1-3rd September, 2012. Visva-Bharati, Santiniketan, Birbhum, West Bengal, India,

Publications

- Full Length Research paper:
Patra, P., Pati, B. K., Gosh, G. K., Mondal, S., Malik, G. C. and Biswas, P. K. 2012. Oxidation pattern of elemental sulphur as affected by levels of sulphur, organic matter and liming in a typical lateritic soil of West Bengal. *Journal of Crop and Weed*, 8(2):29-31
Suchhanda Mondal and Deo pal 2012 .Nitrogen Uptake Pattern in Relation to Root Characteristics of Hybrid Rice and their Parents. *Journal of Interacademia*. 16(2): 256-264.
Patra, P., Mondal, S., and Ghosh, G.K. 2012. Distribution of Sulphur Fractions in Surface and Sub-surface Soils of Red and lateritic Soils of West Bengal. *Indian Agric*. 56(1) 1-7.

Manik Chandra Kundu,

Date of joining:

Joined on February 01, 2013 as Assistant Professor of Soil Science, Department of ASEPAN, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan-731 236, Birbhum, West Bengal, India.

DEPARTMENT OF CROP IMPROVEMENT HORTICULTURE & AGRICULTURAL BOTANY (CIHAB)

Department of Crop Improvement, Horticulture & Agricultural Botany (CIHAB),
Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan.
Name of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations - Nil

Departmental Seminar (Speakers, Title of the Seminar, Date) - Nil

National & International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research scholars in details:

P. S. Munsii

Participated and acted as Chairperson (Technical Session-Horticulture) in the International Conference on Bio-Resource and Stress Management, 6-9th February'2013, Science City, Kolkata.

Participated and acted as Chairperson (Technical Session-Horticulture) in the National Symposium on 'In Quest of Second Green Revolution' 26-28th February'2013, Institute of Agriculture, University of Calcutta, Kolkata.

S. Chakravorty

Participated and presented research paper in First International Conference on Bio-resource and Stress Management during 6-9th February, 2013 at Science City, Kolkata, India.

Joydip Mandal

Participated and presented paper in National Seminar on "Changing Rural Scenario in the New Millenium", 22-23 March, 2013, organized by Department of Palli Charcha Kendra, Visva-Bharati, Sriniketan West Bengal.

Participated and presented paper in Golen Jubilee Seminar on "Advances in agricultural research towards food security an environmental sustenance", 1-3 September, 2012, organized by Institute of Agriculture, Visva-Bharati, Sriniketan, West Bengal.

Participated and presented paper in National symposium on "Plant microbs interactions and crop health management", 6-7 October, 2012, organized by Department of Plant Protection, Institute of Agriculture, Visva-Bharati, Sriniketan, West Bengal.

Participated and presented paper in National Seminar on "Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization 22-23, November, 2012, organized by Department of Economics and Politics, Visva-Bharati, Sriniketan, West Bengal.

Prahlad Deb

Participated and presented paper in International Conference on Bio-Resource and Stress Management, 6-9th february'2013, Science City, Kolkata.

Participated and presented paper in National Symposium on 'In Quest of Second Green Revolution' 26-28th February'2013, Institute of Agriculture, University of Calcutta, Kolkata.

Amitava Paul

Participated and presented research paper in The First International Conference on Bio-Resource and Stress Management, organized by Ratikanta Maiti Foundation, Kolkata, during February 6 & 9, 2013.

Participated and presented research paper in the Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organized jointly by International Plant Nutrition Institute and Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, during 1-3rd Sept'12.

Participated and presented research paper in the 100th Indian Science Congress held at Calcutta University, Kolkata, during 3-7th Jan'13.

Ch-II

Nihar Ranjan Chakraborty

Participated UGC sponsored 88th Orientation Programme (28 days) at UGC Academic Staff College, The University of Burdwan and obtained "Grade- A" during October- November 2012.

Participated and presented research paper in The First International Conference on Bio-Resource and Stress Management, organized by Ratikanta Maiti Foundation, Kolkata, during February 6 & 9, 2013.

Participated and presented research paper in the Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organized jointly by International Plant Nutrition Institute and Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, during 1-3rd Sept'12.

Ongoing research projects in the Department

P.S. Munsii

Establishment of model nursery (1 ha) for medicinal plants under National Mission on Medicinal Plants, Department of Food Processing Industries & Horticulture, Govt., of West Bengal (Amount Rs. 4,00,000/-).

Extension activities/NSS/Cultural and other activities organized by the Department and participated by the teachers and students of the Department.

Teachers and students of the Department are actively engaged in the extension activities organized by the Institute from time to time on transfer of technology programmes. This includes organizing students and farmers in undertaking extension programme, T.V. and Radio programmes etc. The faculty members also participated in various training programmes (organized by Rathindra Krishi Vigyan Kendra, Siksha Satra - Palli Charcha Kendra, Visva-Bharati, Govt. of West Bengal, NGO's etc.).

On various occasions, NSS programme was organized by Dr. Joydip Mandal involving Departmental students. The programme ranged from campus cleaning to participation in many social activities.

The section Horticulture takes leading part in organizing various University programmes such as, 'Halakarshana' and 'Sriniketan Utsava' ('Magh Mela').

Academic distinctions gained by teachers/scholars of the Department as a whole (like recognition as D.S.A. or C.S.A. etc.).

P.S. Munsii

- I. Member of Executive Council of The Society for the Advancement of Horticulture, B.C.K.V., Kalyani, Nadia, West Bengal (since 1996).
- II. Member of Editorial Advisory Committee for Journal of Interacademia, Kalyani, West Bengal.
- III. Member of the State Level Committee of National Horticulture Board, Govt. of India.
- IV. Guest Teacher in Horticulture, University of Calcutta.
- V. External Member of Ph.D. Committee, Department of Horticulture, Institute of Agricultural Science, University of Calcutta.
- VI. External Expert for selection of Project Proposals on Technical Programme Discussion Meeting of BARC, Trombay, 6-7th February'2013, BCKV, Kalayani, West Bengal.
- VII. Five students obtained Ph.D. degree under supervision.

Life Member of the following professional societies

- i. Indian Science Congress Association.
- ii. The Agricultural Society of India.
- iii. The Society for the Advancement of Horticulture.
- iv. Indian Association of Biological Sciences.
- v. The Orissa Horticultural Society.
- vi. Horticultural Society of India.
- vii. Indian Society of Ornamental Horticulture.

- viii. The Essential Oil Association of India.
- ix. International Society for Horticultural Science (up to 2014).

Acted as one of the Joint Chairpersons of National seminar on 'Recent Advances in Rice Genomics and Biotechnology' organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.

S. Chakravorty

Life Member of the following professional societies

- a) The Society for the Advancement of Horticulture.
- b) The Indian Society of Vegetable Science
- c) Seed Science Society of Bangladesh.

One student have submitted Ph.D. thesis under supervision.

Joydip Mondal

Acted as Joint Convener, Exhibition Sub-Committee, '91th Sriniketan Annual Festival (Magh Mela)', 6-8th February, 2013, Visva-Bharati, Sriniketan.

Delivered lecture on "Profitable Cultivation of vegetables" in Training and Visit Programme at Rathidra Krishi Vigyan Kendra, Institute of Agriculture, Visva-Bharati, Sriniketan organized by Indian Farmers Fertilizer Cooperative Limited (IFFCO) on 18th January, 2013.

Delivered lecture on "Vermicomposting Technology and Its Successful Application in Horticulture at Village Halsidanga, Bolpur, organized by Rural Extension Centre, Visva-Bharati, Sriniketan on 28.02.2013.

Acting as In-charge of Horticulture Farm, Palli Siksha Bhavana, Visva-Bharati, Sriniketan

Joined as 'Guest Lecturer' in the Department of Horticulture, Institute of Agricultural Sciences, Calcutta University

Acted as reviewer of research papers:

- i. African Journal of Agricultural Research
- ii. Asian Journal of Horticulture

Two students have submitted Ph.D. thesis under his supervision.

Life Member of the following professional societies:

- i. Indian Society of Vegetable Science, Varanasi
- ii. The Horticultural Society of India, New Delhi
- iii. The Karnataka Horticultural Society, Arabhavi, Karnataka
- iv. The Society for the Advancement of Horticulture, BCKV, West Bengal
- v. Indian Association of Hill Farming, Barapani, Umium, Meghalaya
- vi. The Orissa Horticultural Society, OUAT, Orissa
- vii. Seed Science society of Bangladesh, BAU, Mymensingh

Prahlad Deb

Life Member of the following professional societies:

- The Horticultural Society of India, New Delhi
- The Society for Promotion of Horticulture, Bangalore
- Fruit Science Society of Bangladesh, Mymensingh, Bangladesh

Acting as In-charge of Horticulture Laboratory, Dept. of CIHAB, Palli Siksha Bhavana, Visva-Bharati, Sriniketan.

Delivered lecture on "Profitable Cultivation of Flowers" in Training and Visit Programme at Rathidra Krishi Vigyan Kendra, Institute of Agriculture, Visva-Bharati, Sriniketan organized by Indian Farmers Fertilizer Cooperative Limited (IFFCO) on 18th January, 2013.

Ch-II

P.C. Kole

Acted as reviewer of research papers:

Int J Soil Plant Sci

African J Agric Res

J Exp Biol Agric Sci

Acted as resource person and delivered a lecture on "Seed production in pulses" in the In Service Training Programme on "Pulse Seed Production Technologies" on 1st March'2013 at Rathindra Krishi Vigyan Kendra, Visva-Bharati, Sriniketan

Amitava Paul

Acted as resource person and delivered a lecture on "Suitable varieties of Important Pulse Crops" in the In Service Training Programme on "Pulse Seed Production Technologies" on 1st March'2013 at Rathindra Krishi Vigyan Kendra, Visva-Bharati, Sriniketan.

Acted as one of the Joint Conveners of National seminar on 'Recent Advances in Rice Genomics and Biotechnology' organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.

Life member of the following societies

a) Crop and Weed Science Society

b) Biosciences & Agriculture Advancement Society, Meerut

c) The Indian Science Congress Association

Member of the editorial board of the journal HortFlora Research Spectrum

One student obtained Ph.D degree and one student submitted Ph.D thesis under supervision.

Nihar Ranjan Chakraborty

Acted as Organizing Secretary of National seminar on 'Recent Advances in Rice Genomics and Biotechnology' organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.

Life member of Indian Science Congress association

Serving as Teacher-in-Charge, Games and Sports of Palli Siksha Bhavan.

Publications (Published during April 2011 - March 2012)

Research papers

P. S. Munsu

P. Deb, S. K. Ghosh and P. S. Munsu (2013) Effect of Different Chemicals on Disease Advance and Changes in Physico-chemical Attributes of Penicillium infected Mandarin Orange under Ambient Storage, In: Abstracts, National Symposium on 'In Quest of Second Green Revolution' 26-28th February'2013, Institute of Agriculture, University of Calcutta, Kolkata.

S. Chakravorty

Seminar Proceedings

International:

Chakravorty, S.; Mondal, S. and Deb, P. (2011). Effect of Different Post-harvest Treatments, Packaging and Storage Conditions on Fibre Content, Crude Protein Content and β - carotene Content of French bean. First International Conference on Bio-resource and Stress Management during 6-9th February, 2013 at Science City, Kolkata, India,

Joydip Mandal

Research papers

Joydip Mandal. and V.K. Dhangra. 2012. Screening vegetable amaranth under summer condition in red and lateritic belt of West Bengal. Environment and Ecology. 30 (4A): 1430-1433.

Book Chapter

- i. Joydip Mandal. Growing musk melon (*Cucumis melo* L.) in red and lateritic belt of West Bengal. 2013. Challenges of livelihood and inclusive rural development in the era of globalization. Edited by Pranab Kumar Chattopadhyaya and Sudipta Bhattacharya; New Delhi Publishers, New Delhi. pp 419-426. (ISBN 978-93-81274-25-5).
- ii. Joydip Mandal. 2013. Influence of FYM and NPK on production potential of cabbage. challenges of livelihood and inclusive rural development in the era of globalization. Edited by Pranab Kumar Chattopadhyaya and Sudipta Bhattacharya; New Delhi Publishers, New Delhi. pp 393-400. (ISBN 978-93-81274-25-5).
- iii. Joydip Mandal and Sanjib Pal. 2012. Musk melon: a wonderful dessert fruit-vegetable waiting for commercial cultivation in red and lateritic belt of West Bengal. Sustainable Agriculture and Environment. Edited by Kazi MB Rahim, Debashis Sarkar and BC Roy; New Delhi Publishers, New Delhi. pp 103-108. (ISBN 978-93-81274-12-5).

Seminar Proceedings**International Level**

Joydip Mandal. 2012. Performance of muskmelon (*Cucumis melo* L.) in Red and Lateritic belt of West Bengal. In: Abstracts; The 22nd Bangladesh Science Conference on "The role of scientists and technologist to achieve the MDG", 27-29th September, 2012, organized by Bangladesh Association for the Advancement for Science (BAAS) and Bangladesh Council of Scientific and Industrial Research (BCSIR). P 33.

Chinanshuk Ghosh, Joydip Mandal and G. N. Chattopadhyay. 2012. Economics and yield of radish (*Raphanus sativus* L.) as influenced by combined application of vermicompost and NPK. In: Abstracts; The 22nd Bangladesh Science Conference on "The role of scientists and technologist to achieve the MDG", 27-29th September, 2012, organized by Bangladesh Association for the Advancement for Science (BAAS) and Bangladesh Council of Scientific and Industrial Research (BCSIR). P 32.

National

Joydip Mandal, Bedhna Subba and V.K. Dhangra. 2013. Prospects of Organic Horticulture in Laterite Belt of Eastern India. In: Programme and Abstract; National Seminar on "Changing Rural Scenario in the New Millenium", 22-23 March, 2013, organized by Department of Palli Charcha Kendra, Visva-Bharati, Santiniketan, West Bengal. P 21.

V.K. Dhangra and Joydip Mandal. 2013. Glaiolus cultivation in West Bengal: present status and future potential. In: Programme and Abstract; National Seminar on "Changing Rural Scenario in the New Millenium", 22-23 March, 2013, organized by Department of Palli Charcha Kendra, Visva-Bharati, Santiniketan, West Bengal. Pp 21-22.

V.K. Dhangra and Joydip Mandal. 2012. Estimation of genetic components and character association in bottle gourd. In: Abstracts; Golden Jubilee Seminar on "Advances in agricultural research towards food security an environmental sustenance", 1-3 September, 2012, organized by Institute of Agriculture, Visva-Bharati, Santiniketan, West Bengal. P020.

Joydip Mandal. 2012. Influence of spacing and nitrogen on twig production of bottle gourd. In: Abstracts; Golden Jubilee Seminar on "Advances in agricultural research towards food security an environmental sustenance", 1-3 September, 2012, organized by Institute of Agriculture, Visva-Bharati, Santiniketan, West Bengal. P030.

C. Ghosh, Joydip Mandal and G. N. Chattopadhyay. 2012. Nutrient management of radish through combined application of vermicompost and NPK. In: Abstracts; Golden Jubilee Seminar on "Advances in agricultural research towards food security an environmental sustenance", 1-3 September, 2012, organized by Institute of Agriculture, Visva-Bharati, Santiniketan, West Bengal. P041.

V.K. Dhangra, Joydip Mandal and Ranjan Nath. 2012. Field evaluation of bottle gourd genotypes against mottle leaf virus. In Abstract; National symposium on "Plant microbes interactions and crop health management", 6-7 October, 2012, Department of Plant Protection, Institute of Agriculture, Visva-Bharati, Sriniketan, West Bengal. p 53.

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Prahlad Deb

Research papers

P. Deb, A. Sarkar, and C. P. Suresh, C. P. (2012) Diversity of Minor Fruit Crops under North Bengal, In: Proceedings of "International Symposium on Minor Fruits and Medicinal Plants for Health and Ecological Security", BCKV, WB, 19-22nd December, 2011.

Books/ book chapters:

Value addition and Precision in Minor fruits(2012). In "Precision Horticulture: Towards Value Addition and Marketing" Edited By S.K. Acharya, A.B. Sharangi, M.K. Pandit and S. Datta (ISBN no: 978-81-83212-64-9), page: 146-156.

Seminar Proceedings

International level:

P. Deb and C. P. Suresh (2013) Effect of Postharvest Treatment Methods, Different Levels of Chemicals and Exposure Time on Shelf-life and Changes in Physico-chemical Attributes Banana (cv. Malbhog, Musa AAB), In: Abstracts, International Conference on Bio-Resource and Stress Management, 6-9th february'2013, Science City, Kolkata.

S. Chakravorty, S. Mondal, and P. Deb (2013) Effect of Different Postharvest Treatments, packaging and Storage Conditions on Fibre Content, Crude Protein Content and beta-carotene Content of French bean, In: Abstracts, International Conference on Bio-Resource and Stress Management, 6-9th february'2013, Science City, Kolkata.

N. Bhowmick, P. Deb and S. Pradhan (2013) Physico-chemical Attributes of Burmese Grape(*Baccaurea sapida* Muell. Arg.) During Fruit Growth and Development, In: Abstracts, International Conference on Bio-Resource and Stress Management, 6-9th february'2013, Science City, Kolkata.

National level:

P. Deb, S. K. Ghosh and P. S. Munsu (2013) Effect of Different Chemicals on Disease Advance and Changes in Physico-chemical Attributes of *Penicillium* infected Mandarin Orange under Ambient Storage, In: Abstracts, National Symposium on 'In Quest of Second Green Revolution' 26-28th Febrary'2013, Institute of Agriculture, University of Calcutta, Kolkata.

P. C. Kole

Research papers

Kole, P.C., Chakraborty, N.R., and Mallick, R.B. 2012. Evaluation of gamma ray induced mutants of aromatic rice (*oryza sativa* l.). *Tropical Agric. (Trinidad)*, 89: 205-210. Kole, P.C., Chakraborty, N.R. 2012. Assessment of genetic divergence in induced mutants of short grain aromatic non-basmati rice (*oryza sativa* l.). *Tropical Agric. (Trinidad)*, 89: 211-215. Kole, P.C. and Saha, A. 2013. Correlation coefficients of component characters with seed yield and their direct effects in path analysis in fenugreek grown under six environments. *J. Hortic. For.*, 5 : 17-20.

Amitava Paul

Research papers

Manna, Madhurina and Paul, Amitava.2012. Studies on genetic variability and characters association of fruit quality parameters in tomat. *Hort Flora Research Spectrum*, 1(2) : 110-116.

Manna, Madhurina and Paul, Amitava.2012. Path analysis between fruit yield and some yield components in tomat (*Lycopersicon esculentum* Mill). *Hort Flora Research Spectrum* 1(3): 215-219.

Chattopadhyay, Aditi and Paul, Amitava. 2012. Studies on heterosis in tomato (*Solanum lycopersicon*). *Int. Jr. Bioresource & Stress Management*.

Mondal, B; Bhattacharya, I; Sarkar, N.C; Paul, Amitava and Khatua, D.C.2012. Standardization of inoculation technique and screening of some brinjal and tomato lines against bacterial wilt. *Research on Crops*

Chattopadhyay, Aditi and Paul, Amitava. 2012. Studies on heterosis for different fruit quality parameters in tomato. *Int. Jr. Ag. Env. Biotech*, 5(4): 405-410.

Pokhrel, Himal. and Paul, Amitava.2012. Studies on character association of different quantitative traits in tomato. *Indian Biologist*, 44(2): 39-43.

Chakraborty, Nihar and Paul, Amitava. 2012. Role of induced mutation in enhancing nutrition quality and production of food. *Int. Jr. Bioresource & Stress Management* (Accepted).

Paul, A. and Mondal, P. 2012. Effect on gamma radiation on mutagen sensitivity and mutability in field pea (*Pisum sativum* L.). *Jr. Crop and Weed*, 8(2): 132-136.

Singh, Naorem Brajendra; Paul, Amitava; Wani, Shabir Hussain and Laishram, Joykumar Meitei. 2012. Heterosis studies for yield and its components in tomato (*Solanum lycopersicum* L.) under valley conditions of Manipur. *LS- An Int. J. L. Sc.*, 1(3): 224-232.

Singh, Naorem Brajendra; Paul, Amitava; Wani, Shabir Hussain and Laishram, Joykumar Meitei. 2013. Heterosis studies for quality traits in tomato (*Solanum lycopersicum* L.) using bacterial wilt tolerant and high yielding varieties. *J. Pl. Sc. Res.*, 29(1): 111-118.

Seminar Proceedings

N. R. Chakraborty and A. Paul (2012). Biotechnology and its application in agriculture. In: Abstract. Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organized jointly by International Plant Nutrition Institute and Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, during 1-3rd Sept'12. pp T3-P006.

Amitava Paul and N. R. Chakraborty (2012). Bioinformatics and its application in agriculture. In: Abstract. Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organized jointly by International Plant Nutrition Institute and Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, during 1-3rd Sept'12. pp T3-P017.

Neha Singh and Amitava Paul (2013) In: Abstract. The First International Conference on Bio-Resource and Stress Management. Organized by Ratikanta Maiti Foundation, Kolkata, during February 6 & 9, 2013. pp 2.11.

Nihar Ranjan Chakraborty

Research papers

P.C.Kole, N.R.Chakraborty and R.B. Mallick (2012). Evaluation of gamma ray induced mutants of aromatic rice (*Oryza sativa* L.). *Tropical Agriculture(Trinidad)*. 89(4):205-210.

P.C.Kole and N.R.Chakraborty (2012). Assesment of genetic divergence in induced mutants of short grain aromatic non-basmati rice (*Oryza sativa* L.). *Tropical Agriculture(Trinidad)*. 89(4):211-215.

N.R.Chakraborty and A.Paul (2012). Role of induced mutations in enhancing nutrition quality and production of food. *International Journal of Bio-Resource and Stress management* 4(1): 014-019.

N.R.Chakraborty (2013). Towards understanding rice domestication and its implication. *Geneconserve* 12(47): 01-22.

Seminar Proceedings

N. R. Chakraborty and A. Paul (2012). Biotechnology and its application in agriculture. In: Abstract. Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organized jointly by International Plant Nutrition Institute and Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, during 1-3rd Sept'12. pp T3-P006.

Amitava Paul and N. R. Chakraborty (2012). Bioinformatics and its application in agriculture. In: Abstract. Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance" organized jointly by International Plant Nutrition Institute and Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, during 1-3rd Sept'12. pp T3-P017.

N.R.Chakraborty and P. C. Kole (2013). Radiation induced polygenic variability in M2 and M3 generation of aromatic non-basmati rice. In: Abstract. The First International Conference on Bio-Resource and Stress Management. Organized by Ratikanta Maiti Foundation, Kolkata, during February 6 & 9, 2013. pp 2.11.

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Designing New Course/curriculum or any other teaching innovations introduced by the Department.

Studies on agro-botanical characters of different vegetables, flowers and other crops are going on which will help identify suitable genotype(s) for direct use as variety and/ or indirect use in cross-breeding programme for utilization of heterosis effect in F1 generation or isolation of promising segregants in advanced generation of inbreeding.

'On Farm' trials on improved agro-techniques on fruit, vegetable and aromatic crops are going on as method as well as result demonstrations to the growers.

"Horticulture Research and Demonstration Unit" has been developed for doing research on Horticulture; the same unit is useful for various field-based practical at UG & PG level and imparting training to different groups of farmers on horticultural crops.

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development.

The Department of CIHAB, comprising three distinct disciplines viz. Genetics & Plant Breeding, Horticulture and Agricultural Botany, started functioning from 1989. Since its inception, the department offers various courses on Genetics & Plant Breeding, Horticulture and Agricultural Botany at U. G. level. The P. G. Programme in Horticulture started from the academic session of 1997-98 with an intake capacity of seven students per year. Besides the U. G. and P. G. courses, the faculty members of the department are also actively engaged in guiding students in research work leading to Ph. D. degree and extension activities. The faculty members conducted special classes exclusively for the purpose of JRF and guided final year B.Sc. (Ag.) Honours students for ICAR, JRF.

Any other relevant information, which in the opinion of the Head of the Department is worth reporting should be included.

Some improved techniques for vegetative propagation of some fruit crops have been developed. Integrated Nutrient Management for some fruits, vegetables, flowers and medicinal plants have been standardized. Trials on organic farming and post harvest management of different horticultural crops are going on. Facility created for Hi-tech. Horticulture with special reference to micro-irrigation, poly houses etc.

Future Plan

The department has planned to start PG programme in Genetics & Plant Breeding and to set up modern and well-equipped laboratories for Molecular Breeding and Post-Harvest Technology.

Particulars in details of the Departmental Library:

At present there is no departmental library. For detail information please see the Annual Report of Palli Siksha Bhavana.

DEPARTMENT OF AGRICULTURAL EXTENSION, AGRICULTURAL ECONOMICS AND AGRICULTURAL STATISTICS (EES)

The Department of Agricultural Extension, Agricultural Economics and Agricultural Statistics (EES) is one of the four departments of the Institute of Agriculture (PSB). It was created in the year 1989. The activities of the department comprises of all the three important activities, viz. teaching, research and extension. The department offers Master degree in the subject of Agricultural Extension and Ph.D. degree in the areas of Agril. Extension, Agril. Economics and Agril. Statistics. Agricultural Economics and Agricultural Statistics divisions of the department also cater the need of minor and supporting courses related to Economics and Statistics in various M. Sc. (Ag.) Programmes of other departments of the Bhavana.

The faculty members of the department are actively engaged in guiding research scholars leading to Ph. D degree in component disciplines of the department. Presently, most of the faculty members of the department are also involved in innovative research work by undertaking various projects in collaboration with national and international institutes. Many of such projects are of multi-disciplinary and multi-institutional in nature. The department is performing commendable work in rural extension activities, catering the training needs of farmers, farm-women and rural youths of this region following the ideas of Gurudeva Rabindranath Tagore and L.K. Elmhirst. The Department also imparts training to students, scientists, extension personnel and other Govt. Officials through the Rural Agricultural Work Experience (RAWEX) programme, Farmers-Scientists meeting cum Village Camps are organised every year to get acquainted with the farmers' problems and help them find a solution.

National and International standard Conference / Seminar / Workshop / Exhibition etc. attended by Teachers (in details)

Debasis Bhattacharya

(Head of the Department)

1. Workshop on Analysis of High-Dimensional and Functional Data in Honor of Professor Peter Hall, May 19-20, 2012, University of California, Davis, USA
2. International Conference on Technology and Business Innovation, October 30-31, 2012, AICA, Pune.

Sarthak Chowdhury

1. Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance", organized by the Institute of Agriculture, Palli Siksha Bhavana, Visva-Bharati, Sriniketan, 1-3 September, 2012.

Bidhan Chandra Roy

1. National Seminar on Advances in agricultural research towards food security & environmental sustenance, 1-3 September, 2012, organized by PSB, Visva-Bharati

Siddhartha Dev Mukhopadhyay

1. National Seminar on Advances in agricultural research towards food security & environmental sustenance, 1-3 September, 2012, organized by PSB, Visva-Bharati
2. National Seminar on Changing rural scenario in the new millennium organized by PCK, Visva-Bharati, March 22-23, 2013
3. National Symposium on Plant microbe interactions & crop health management, Organized by the Dept. of Plant Protection, PSB, VB, 6-7 October 2012

(Ms.) Anindita Saha

1. International Conference on Bio-Resource and Stress Management held on 06-09 February, 2013, organized by Ratikanta Maiti Foundation, Kolkata, W. B.

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2. Advances in Agricultural Research towards Food Security and Environmental Sustenance, 1-3 September, 2012, organized by PSB , Visva-Bharati, Sriniketan,
3. Changing Rural Scenario in the New Millennium, 22-23 March, 2013, organized by PCK, Visva-Bharati, Sriniketan,

Digvijay Singh Dhakre

1. National Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, 1-3 September, 2012, organized by PSB , Visva-Bharati, Sriniketan,
2. International Conference on Bio-Resource and Stress Management held on 06-09 February, 2013, organized by Ratikanta Maiti Foundation, Kolkata, W. B.

Bitan Mondal

1. "Indian Dairy Trade: Issues and Challenges". Presented at XL- Dairy Industry Conference, 3-5 February, 2012, New Delhi.

Ongoing Research Projects in the Department

Debasis Bhattacharya (Minor research project)

- i. Name of the Project : On the reliability estimation of bridge system under dependent set up
- ii. Sponsoring Agencies : UGC and Visva-Bharati

Bidhan Chandra Roy

Major Research Project (Externally sponsored)

- i. Name of the Project : Water Quality Assessment of Coal Bed Water for Providing Irrigation to Agriculture
- ii. Sponsoring Agencies : ESSAR Oil Limited
- iii. Amount sanctioned : Rs. 277200/-

Minor research project (partial research grant of Visva Bharati)

- i. Name of the Project : Diversification of Agriculture in West Bengal
- ii. Sponsoring Agencies : Visva-Bharati

Institutional Project run by the department:

Dr. Siddhartha Dev. Mukhopadhyay

- i. Name of the Teacher - Dr. Siddhartha dev Mukhopadhyay
- ii. Name of the Project - Intensive Sugarcane Research Project
- iii. Sponsor - Deptt of Agriculture, Govt of West Bengal
- iv. Amount - Rs. 5, 97, 000 for the year 2012-13

(Ms.) Anindita Saha

Traditional Knowledge based Dairy farming- A study

Sponsoring Agency : Visva- Bharati

Detailed report on Extension activities for the year 2012-2013:

The department is involved in transfer of technologies (ToT) from its inception. The constant climatic change and due to low and irregular rainfall, the farmers of this area are facing acute shortage of water for cultivation of traditional crops. From last year the department has put more emphasis on transfer of technologies of low irrigated crops like vegetables, oil seeds, pulse crops, wheat etc.

Last year the department has conducted both on farm and off farm demonstration for cauliflower, cabbage, spinach, radish, carrot, brinjal, tomato and green chilli. Off farm demonstrations of lentil and mustard were also carried out.

For 2012-13 the department has conducted 40 nos of demonstration at farmers' field with early varieties of cauliflower, cabbage, tomato, brinjal and green chilli. Seedlings of short duration F1 hybrid varieties of cauliflower, cabbage tomato, brinjal and green chilli were produced. The seedlings were distributed to the adapted farmers to encourage them in vegetable cultivation. Some seedlings were distributed among the university staff and faculty members in order to see the quality of seedlings produced as a control experiment. Farmers got a very good price by selling their produce in the market.

Following varieties were produced:

Vegetable	Variety
Cauliflower	Deepa (F1 Hybrid) Silver cup (F1 Hybrid)
Cabbage	Blue jays (F1 Hybrid) Pusa Drum Head
Tomato	BSS 908 (F1 Hybrid)
Green Chilli	Surya Mukhi
Brinjal	Local Selection

Off Farm Demonstration varieties are given below:

Crop	Variety
Oil seeds :	
Mustard	B-9
Pulse crops :	
Gram	Maha Maya-1
Lentil	Asha and Ranjan
Wheat	Sonali, HD 2733, PWD 343

Last year we have irrigated our demonstration plot from the water of a dug well but lack of enough water in the well during summer months constrained us to conduct demonstration on Summer Vegetables. This year in March, we have installed one submersible pump in our demonstration farm which will remove the problem of water in the demonstration.

Academic Distinction gained by Teachers / Scholars or the Department as a whole

Debasis Bhattacharya:

Editorial Responsibilities:

1. Editor of the Journal "Stochastic Modeling and Applications"
2. Managing Editor of International Journal of Statistics and Management Systems, USA
3. Peer reviewer of International journals (Statistics and Probability Letters, Journal of Applied Probability and Statistics, Journal of Multivariate Analysis, Journal of Statistical Planning and Inference, Model Assisted Statistics and Analysis, Naval Research Logistics, Communication: Theory, Journal of Applied Statistics and Methods)

Membership of Learned Society:

The American Statistical Association,
The Institute of Mathematical Statistics,
Indian Statistical Institute,
Calcutta Statistical Association,
Indian Science Congress Association,
Indian Association for Productivity, Quality and Reliability.

Bidhan Chandra Roy

1. Editor, International Journal of Social Science, New Delhi

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2. Joint Organizing Secretary, Golden Jubilee Seminar on "Advances in Agricultural Research towards Food Security and Environmental Sustenance " Palli-Siksha Bhavana, Visva Bharati
3. Chief Editor, Souvenir for 16th Re-union Meet, Palli-Siksha Bhavana, Visva-Bharati, held during 26-27 January, 2013
4. Vice-Principal, Institute of Agriculture, Visva Bharati (Till 31st June, 2012)
5. Vice-President, Rabindra Nath Tagore Research Society, Bolpur, Birbhum
6. Member, Governing Body, Agro-Economic Research Centre, Visva Bharati
7. Referee, Agricultural Economics Research Review, New Delhi
8. Life Member, Indian Society of Agricultural Economics, Mumbai
9. Life Member, Agricultural Economics Research Association, New Delhi

Radio-Television Talk etc

1. Sabuj Arthaniti (Green Economy), Television programme in Doordarshan Kendra, Santiniketan recorded on 20.05.2012 and telecasted on 22.05.2012 with repeat telecast on 05.06.2012.
2. Krishi bapanan, Khadya prakriyakaran O Sangrakshan (Agricultural Marketing, Food Processing and Storage), Radio talk (Live phone-in) in the All India Radio, Santiniketan on 14.07.2012
3. Chukti Chas O Krishir Baichitrakaran (Contract Farming and Agricultural Diversification), Radio talk in the All India Radio, Santiniketan recorded on 18.06.12 and broad cast on 18.06.2012.
4. Khadya prakriyakaran (Food Processing), Radio talk in the All India Radio, Santiniketan recorded on 18.06.12 and broad cast on 18.06.2012.

Digvijay Singh Dhakre

1. Received young scientist award in Agricultural Statistics in International Conference on Bio-Resource and Stress Management, Kolkata, February 6-9, 2013.

Publications in National and International journals/Books with ISBN/Chapter of an edited book with ISBN (April 2011 to March 2012)

Debasis Bhattacharya

1. Reliability of a Coherent System in a Multi-component Stress-strength Model (2013), American Journal of Mathematical and Management Sciences (Taylor & Francis), Vol.32, No.1, ISSN 0196-6324,

Book Chapters

1. Exploratory Data Analysis in Data Mining (2012), A chapter in the edited book : Statistics in Social Science and Agricultural Research, pp.52-72, Concept Publishing Company Pvt. Ltd. (ISBN-13: 978-81-8069-822-4.)
2. Assessing Risk of Failure of a Parallel Series System under Dependent Set-up (2012), Innovation for Organizational Excellence, pp.3-11, Himalaya Publishing House (ISBN 978-93-5051-684-3)
3. Performance Management of a Coherent System under Field Conditions(2012), Technology and Business Innovation, pp.20-26, Wright Publication, Wright Academic Series (ISBN: 978-3-659-27554-8)
4. On Comparison of Performances of Competing Supply Chain System Designs (2013), Blazing Trails with Strategic Management, pp.242-248, SIBM, Pune (ISBN:978-81-921232-1-9)

Books Authored / Edited book

1. Inferential Statistics (2012), U.N.Dhur & Sons Pvt. Ltd. (ISBN 978-93-80673-60-8)
2. Statistics in Social Science and Agricultural Research (2012), Concept Publishing Company Pvt. Ltd. (ISBN-13: 978-81-8069-822-4)

Sarthak Chowdhury

1. Nath, S.K.; Chowdhury, S. and Raj, R.K. (2012), Impact of Training in Rice Cultivation on Farm Women of Odisha, Oryza, Vol. 49(No. 1), pp. 45-49

Book Chapter

1. Ray, Prabhuddha and Chowdhury, Sarthak (2012), Facilitating Sustainable Agriculture from Extension Perspective, In: Challenges of Livelihood and Inclusive Rural Development in the Era of Globalization (eds: Pranab Kumar Chattopadhyay and Sudipta Bhattacharya) [ISBN No. 978-93-81274-25-5], New Delhi Publishers, New Delhi, pp. 263 - 278.

Bidhan Chandra Roy

Research Papers in Journal

1. Khatun, Dilruba and Roy, B. C. (2012). Determinants and constraints of rural livelihood diversification in West Bengal, *Agricultural Economics Research Review*, January-June Volume 25 (No. 1), New Delhi (ISSN 0971-3441), pp.115-124.
2. Majee, Utpal, G.N. Chattopadhyay; B. C. Roy, Shibani Chaudhury and Shashank Sheker (2012). Possibility of Using Some Amendments in Mitigating the Adverse Effects of Coal Bed Water on Soil Environment, *Proceedings International Conference on Nuclear Energy, Environmental and Biological Sciences (ICNEEB 2012)*, September 8-9, 2012, Bangkok (Thailand). pp.-68-70, ISSN-9789382242079

Book

1. Khatun, Dilruba and Roy, B. C (2012). *Rural Livelihood Diversification in West Bengal*, LAP-LAMBERT Academic Publishing, Germany, ISBN No: 978-3-659-22075-3

Book chapter

1. Khatun, D. and Roy, B. C. (2012). Vulnerability of Rural Livelihoods: Some insights from West Bengal, In: Rahim, K. M. B.; Sarkar, D and B. C. Roy (Eds) *Sustainable Agriculture and Environment*. Pp.211-222, New Delhi Publishers, New Delhi (ISBN No; 978-93-81274-12-5)

Siddhartha Dev Mukhopadhyay

1. Lahiri, B & Mukhopadhyay, S.D. (2012). Content analyses of farm information communicated through selected radio programme, *Indian research Journal of Extension Education*, Vol 12, No. 1, pp 29-35
2. Muktan, M.W & Mukhopadhyay, S. D (2012). Nature and Extent of participation of farm women and their economic contribution in agriculture, *Indian research Journal of Extension Education*, Vol 12, No. 2, pp 01-09
3. Bar.N, Mukhopadhyay, S.D & Raj, R.K. (2012). Constraints of the tribal farmers in attending KVK training - An analysis, *Journal of Interacademia*, Vol 16 (4a), pp 1168-72.
4. Lahiri, B & Mukhopadhyay, S.D (2013). Credibility study of farm information communicated through selected newspaper and radio programme. *Indian research Journal of Extension Education*, Vol 13, No. 1, pp 01-08

Book

1. *Mass media in agricultural extension*. (2012). Daya Publishing House, New Delhi. Co-authors: B Lahiri and M.M Adhikary (ISBN 978-81-7035-783-4)

Dr. (Ms.) Anindita Saha

1. Gupta, P., Mohapatra, S., Saha, A. and Paramguru, S.(2012), Use of Participatory Approach for Promoting Hygienic Health Practices among Rural Women, *Research journal of Agricultural Sciences*,3(2):399-401.,J&K, India. ISSN: 0976-1675.
2. Paramguru, S., Saha, A. and Raj R.K.,(2012), Contract Farming in Sugarcane Cultivation and Development of the growers, *Journal of Interacad*. 16(4a): 1140-1144, Kalyani, West Bengal. ISSN: 0971-9016.
3. Paramguru, S., Saha, A. and Raj, R.K (2012), Perception of the Farmers towards Contract Farming on Sugarcane, *Journal of Extension Education*, Vol. XVII, No.1, OSEE, Bhubaneswar, Odisha. ISSN: 0976-8246

Bitan Mondal

1. Mondal, B., Sirohi, S. and Thorat, V. (2012), Impact of ASEAN-India Free Trade Agreement on Indian Dairy Trade: A Quantitative Approach. In: *Munich Personnel Repec Archive (MPRA)*. (Available online at <http://mpra.ub.uni-muenchen.de/40790/>)

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2. Ghosh, S., Mondal, B. and Nag, A. (2012), Estimation of technical efficiency of kharif rice producers: A case study from Birbhum district of West-Bengal. *Environment and Ecology*, 30(3C): 1171-1176

Popular Article

1. Thorat, V. and Mondal, B. Measurement of Economic Progress: Does Traditional GDP Really Add Up. *Yojana*, May 2012 pp 49-51.

Book

1. Bitan Mondal & B.S. Chandel. "Economic Efficiency of Milk Production in Eastern India; A Quantitative approach". Lambert Academic Publishing (2012). (ISBN No: 978-3-659-21159-1)

Any other relevant information :

The department was able to maintain its record of high performance in teaching, research and extension activities, despite of severe constraints faced in terms of space, budget, infrastructure and non-teaching man power. This year two Ph. D. students have submitted their thesis for evaluation and two Ph. D students have been awarded Ph. D. Degree. Like previous years, this year also the department has organised many field clinics and training programmes for farmers as well as extension personnel (both on campus and off campus).

The department has also performed extremely well in many national and international collaborative projects, publication, extension activities and policy linkages with other departments and institutions. Prof. Debasis Bhattacharya of the department was invited to do collaborative research work and teaching at the University of California Davis, USA during March to June 2012. It is a great honour for the department that the paper presented by Prof. Debasis Bhattacharya in an international conference held at Pune in November was considered to be the best research paper by the adjudicators of the conference. Dr. Digvijay Singh Dhakre delivered lectures as Resource Person of National Level Training Programme on "Data Analysis using SAS" organized by the Division of Agricultural Economics and Statistics, ICAR Research Complex for NEH Region, Umiam, Meghalaya during March 11- 20, 2013.

DEPARTMENT OF PLANT PROTECTION

Name of the students qualified in UGC/CSIR/NET/SLET and GATE Examinations - One,

Sri Sangram Kumar Senapati

Departmental Seminar (Speakers, Title of the Seminar, Date) - One

National Symposium on "Plant Microbe Interactions and Crop Health Management" & Twenty fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012.

This symposium was inaugurated by Professor Tapati Mukhopadhyay, Director, Rabindra Bhavana and Key note address was delivered by Professor (Retd.) Mrinal Kanti Dasgupta, Department of Plant Protection. Professor J.F. Dastur Memorial lecture was delivered by Professor B. N. Chakraborty, Department of Botany, North Bengal University. Prof. M.J. Narasimhan Merit academic award contest for Ph.D. awarded candidates of eastern zone was also organised. The technical sessions of the symposium include (i) Plant pathogens and their detection; (ii) Plant health, Plant Health Clinic & Host Pathogen Interactions; (iii) Ecology of Plant Pathogens and Plant Pathogen's vector(s); (iv) Plant Disease Epidemiology (v) Management of Plant Diseases and (vi) Innovative Technologies. An abstract of 90 papers and lectures was also published for this symposium. Faculty members, Scientists and Researchers and students from different parts of the country participated in this symposium and presented their research findings. In total, 81 papers were presented. Professor (Mrs.) P. Sharma, Secretary, Indian Phytopathological Society delivered special lecture on "Trichoderma - Anchorage of Basic and Applied Research". The valedictory session was chaired by Professor Apurba Choudhury, Dean, Faculty of Agriculture, Uttar Banga Krishi Viswavidyalaya and delivered a lecture on "Foliar Blight of Wheat : Challenges and Strategies for a Better Disease Control. A cultural programme consists of Tagore's music and dance was also organised for the delegates on this occasion.

National & International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research scholars in details:

N.C. Mandal

- i. Attended the Golden Jubilee Seminar on Advances in Agricultural Research Towards Food Security and Environmental Sustenance organised by Palli -Siksha Bhavana, Visva- Bharati, Sriniketan during 1-3 September, 2012.
- ii. Attended the symposium on "Plant Microbe Interactions and Crop Health Management" & Twenty -fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012, organised by Department of Plant Protection, Visva- Bharati, Santiniketan
- iii. Attended the National symposium on Ecofriendly Approaches to Pest Management for Sustainable Agriculture, organised by Society of Plant Protection and Environment, Orissa University of Agriculture and Technology, Bhubaneswar during 24-25th November, 2012 .
- iv. Attended the Eastern Zonal Meeting of Indian Society of Mycology and Plant Pathology and National symposium on Biotic - Abiotic Stresses in Plants under Changing Climate Scenario organised by Department of Plant Pathology, Uttar Banga Krishi Viswavidyalaya, Coochbehar during 29-30 November, 2012.
- v. Attended the 34 th Annual Conference of and symposium on Crop Disease Management : Advances and Challenges organized by Department of Plant Pathology, N.M. College of Agriculture, Navsari, Gujarat . during 21-23 January , 2013.

Kanchan Baral

- i. Attended the Golden Jubilee Seminar on Advances in Agricultural Research Towards Food Security and Environmental Sustenance organised by Palli -Siksha Bhavana, Visva- Bharati, Sriniketan during 1-3 September, 2012.
- ii. Attended the symposium on "Plant Microbe Interactions and Crop Health Management" & Twenty -fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012, organised by Department of Plant Protection, Visva- Bharati, Santiniketan

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Hirak Chatterjee

- i. Attended 13th AZRA Conference on Applied Zoological Researches for National Food Security & Environmental Protection; held on 15th -16th February 2012 at CRRRI, Cuttack: AB-33-139p.
- ii. Attended the Golden Jubilee Seminar on Advances in Agricultural Research Towards Food Security and Environmental Sustenance organised by Palli -Siksha Bhavana, Visva- Bharati, Sriniketan during 1-3 September, 2012.
- iii. Attended the symposium on "Plant Microbe Interactions and Crop Health Management" & 25th Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012, Organised by Department of Plant Protection, Visva- Bharati, Santiniketan
- iv. Attended National Symposium on "Eco-friendly Approaches to Pest Management for sustainable Agriculture" Organised by the Society for Plant Protection and Environment: held on 24th -25th November 2012 at OUAT, Bhubaneswar-751003.
- v. Attended XI Agricultural Science Congress on "Agricultural Education: Shaping India's Future": Organised by National Academy of Agricultural Sciences & ICAR held on 7th -9th February 2013 at OUAT, Bhubaneswar-751003.
- vi. Attended National Workshop on "Appraisal cum Data Validation for Nodal Officers of NISAGENET" Organised by IASRI, New Delhi & Institute of Agricultural Sciences, BHU: held on 19th -20th March 2013 at BHU, Varanasi, UP.

Ranjan Nath

- i. Attended International Workshop on Innovative Teaching for Improved Learning organized by the University of Illinois, at Sheraton New Delhi Hotel, New Delhi, India 16-18 July, 2012
- ii. Attended the Golden Jubilee Seminar on Advances in Agricultural Research Towards Food Security and Environmental Sustenance organised by Palli -Siksha Bhavana, Visva- Bharati, Sriniketan during 1-3 September, 2012.
- iii. Attended the symposium on "Plant Microbe Interactions and Crop Health Management" & Twenty -fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012, organised by Department of Plant Protection, Visva- Bharati, Santiniketan
- iv. Attended and presented a paper entitled ' Evaluation of chemicals against Rhizoctonia solani Kuhn causing Sheath blight disease in rice under field condition' in the International Seminar on Bio-resource and Stress Management, Organised by Ratikanta Maity Foundation during February, 06-09, 2013 at Kolkata, India

Palash Mondal

- i. Attended Golden Jubilee Seminar on 'Advances in Agricultural research towards Food security and Environmental Sustenance' held on 1-3rd Sept., 2012, Organised by Palli-Siksha Bhavana, Visva-Bharati in collaboration with IPNI.
- ii. Attended National Symposium on 'Plant Microbe Interactions and Crop Health Management' held on 6-7th Oct., 2012, Organised by Department of Plant Protection, PSB, Visva-Bharati.
- iii. Attended National Seminar on 'Climate Change and Indian Agriculture: Slicing Down the Uncertainties, CCIA-2013' held on 22-23rd January, 2013, Organised by Association of Agrometeorologists-AP Chapter and CRIDA, Hyderabad
- iv. Attended West Bengal State Science & Technology Congress 2013, Organised by West Bengal Science & Technology Department, Govt. of West Bengal.

Mohan Kumar Biswas

- i. Attended Golden Jubilee Seminar (National) on 'Advances in Agricultural research towards Food security and Environmental Sustenance' held on 1-3rd Sept., 2012, Organised by Palli-Siksha Bhavana, Visva-Bharati in collaboration with IPNI.
- ii. Attended National Symposium on 'Plant Microbe Interactions and Crop Health Management' held on 6-7th Oct., 2012, Organised by Department of Plant Protection, PSB, Visva-Bharati.
- iii. Participated in National symposium on " Blending Conventional and Modern Plant Pathology for Sustainable Agriculture" and 65th Annual meeting of Indian Phytopathological Society. Organised by Division of Plant Pathology ,IIHR, Bangalore ,Karnataka,India,during 4-6 December,2012.

Bholanath Mondal

- i. Attended Golden Jubilee Seminar (National) on 'Advances in Agricultural research towards Food security and Environmental Sustenance' held on 1-3rd Sept., 2012, Organised by Palli-Siksha Bhavana, Visva-Bharati in collaboration with IPNI.
- ii. Attended National Symposium on 'Plant Microbe Interactions and Crop Health Management' held on 6-7th Oct., 2012, Organised by Department of Plant Protection, PSB, Visva-Bharati.
- iii. Attended National Seminar on 'Climate Change and Indian Agriculture: Slicing Down the Uncertainties, CCIA-2013' held on 22-23rd January, 2013, Organised by Association of Agrometeorologists-AP Chapter and CRIDA, Hyderabad.
- iv. Attended National Symposium on 'Women voice in Santali Literature'. Jointly organized by Department of Santali, Visva-Bharati and Sahitya Academi, New Delhi on 20th May, 2012 at Visva-Bharati, West Bengal.
- v. Attended National Symposium on 'Santali Education and Culture'. Jointly organized by Department of Santali, Visva-Bharati on 12th March, 2013 at Visva-Bharati, West Bengal.
- vi. Attended First international Conference on Bio-Resource and Stress Management held on 6-9 Feb., 2013 at Kolkata, jointly organised by Ratikanta Maiti foundation, International journal of Bio-resource and Stress management and CRIJAF.

Ongoing research projects in the Department

Name of the teacher:	Name of the Project:	Sanctioned amount
Dr. Hirak Chatterjee:	i) Sustainable Pest Management and yield enhancement of transplanted rice; Funded by Krishi Rasayan, Kolkata	Rs. 66,000/-
Dr. Bholanath Mondal and Dr. Palash Mondal	i) 'Bio-efficacy of Grace Hume 12% (based on Humic acid) and Bloomer NB (based on Nitro Benzene 35%) for sustainable production of Lady's finger (<i>Abelmoschus esculentus</i>)' funded by Grace Bio-Care Pvt. Ltd., Kolkata.	Rs. 89,000/-
	ii. Name of the Project: 'Investigation of some bio-enriched molecules for the management of potato pests and diseases' funded by Grace Bio-Care Pvt. Ltd., Kolkata.	Rs. 72,300/-

Extension activities/NSS/Cultural and other activities organized by the Department and participated by the teachers and students of the Department.

Teachers and students of the Department are actively engaged in the extension activities organized by the Institute from time to time and simultaneously the department runs a Plant Health Clinic during office hours on all working days for the benefit of farmers. Telephone advisory services in relation to pest management are also extended to farmers.

Diagnostics and advisory services towards sustainable pest management are extended to Directorate of Agriculture, Govt. of West Bengal and different NGO's. In addition to that the faculty members took part in various training programmes organized by Rathindra Krishi Vigyan Kendra, Visva-Bharati including on-farm training to growers in the surrounding villages and also participated in All India Radio and Television extension programmes .

Academic distinctions gained by teachers/scholars of the Department as a whole (like recognition as D.S.A. or C.S.A. etc.)**N. C. Mandal**

Act as President of the National Symposium on symposium on "Plant Microbe Interactions and Crop Health Management" & Twenty -fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012, organised by Department of Plant Protection, Visva-Bharati, Santiniketan

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Hirak Chatterjee

- i. Act as NODAL Officer, PSB, Visva-Bharati for the Project NISAGENET, ICAR, New Delhi.
- ii. Acting as Councillor of the Journal of Plant Protection and Environment . OUAT, Orissa, Bhubaneswar since 2007.
- iii. Acting as referee of the Journals in 'Insect Science' PAU, Ludhiana.
- iv. Acting as referee of the Journal of Plant Protection and Environment. OUAT, Orissa, Bhubaneswar
- v. Acting as paper setter, thesis evaluator and external examiner in CAU, OUAT, UBKV and BCKV and AAU, Jorhat
- vi. Co-Chaired a session in the National Symposium on "Eco-friendly Approaches to Pest Management for sustainable Agriculture" held on 24th -25th November 2012 at OUAT, Bhubaneswar-751003

Ranjan Nath

- i. Act as a paper setter and external examiner of Utra Banga Krishi Viswavidyalay.
- ii. External Examiner for M.Sc. and Ph.D. thesis of Bidhan Chandra Krishi Viswavidyalaya.
- iii. Act as a rapporteur in Golden Jubilee National Seminar on 'Advances in Agricultural Research towards Food Security and Environmental Sustainence' held during September 01-03, 2012 Organised by Palli Siksha Bhavana, Visva-Bharati, Santiniketan.
- iv. Chaired a Session in the International Seminar on Bio-resource and Stress Management, Organised by Ratikanta Maity Foundation during February, 06-09, 2013 at Kolkata, India

Palash Mondal

- i. Appointed as an External Examiner of Department of Agril. Entomology, UBKV, Cooch Behar, Ramakrishna Mission Vivekananda University, Narendrapur, Kolkata.
- ii. Editorial Board Member of the Journal of Bio-resource and Stress Management (Print ISSN 0976-3988, Online ISSN 0976-4038).
- iii. Life member of the 'Society for Plant Protection and Environment' and published the 'Journal of Plant Protection and Environment'.

M. K. Biswas

- i. Acting as In-Charge of Placement Cell ,PSB, Institute of Agriculture, Visva-Bharati, Santiniketan
- ii. Life member of Indian Phytopathological Socceity ,Division of Plant Plant Pathology , IARI, New -Delhi,India publish the Journal of Indian Phytopathology.
- iii. Life member of Indian Society of Mycolosy and Plant Pathology, Division of Plant Plant Pathology , MPUAT, Udaipur,Rajasthan,India , publish the Journal of Mycology and Plant Pathology .
- iv. Life member of the Society for Plant Protection and Envoronment, OAUT, Bhubaneshwar, India . Publish the Journal of Plant Protection and Envoronment .
- v. Life member of Association for Advancement in Plant Protection, publish the journal in Plant Protection

Bholanath Mondal

- i. Received 'Young Scientist Award in Plant Pathology' on the event of the First International Conference on Bio-Resource and Stress Management held on 6-9 Feb., 2013 at Kolkata, jointly organised by Ratikanta Maiti foundation, International Journal of Bio-resource and Stress Management and CRIJAF.
- ii. Received 'Best Poster Paper Award' entitled 'Rethinking of Sundarbans Mangrove through Community Participation' on the event of the First international Conference on Bio-Resource and Stress Management held on 6-9 Feb., 2013 at Kolkata, jointly organised by Ratikanta Maiti foundation, International Journal of Bio-resource and Stress Management and CRIJAF.
- iii. Act as Co-PI of a project entitled 'Strengthening and Modernization of Pest Management Approach in India (SMPMA)' funded by Directorate of PPQ & S, Ministry of Agriculture, Govt. of India.
- iv. Act as Co-PI of a project entitled 'Evaluation of Inhana Rational Farming Technology as an Economical way of Organic Cultivation and a Model for Exploring Sustainable Farming Practice' funded by Inhana Bio-Sciences, Kolkata

- v. Acted as 'Treasurer' in the 'First International Conference on Bio-resource and Stress Management' held at Science City, Kolkata on 6-9th Feb., 2013.
- vi. Appointed as an External Examiner of College of Agriculture, OUAT, Chiplima, Sambalpur, Orissa.
- vii. Editor-in Chief of the Journal Green Technology (ISSN 0973-2624).
- viii. Reviewer of the Journal of Interacademia (ISSN 0971-9016).
- ix. Editorial Board Member of the Journal of Bio-resource and Stress Management (Print ISSN 0976-3988, Online ISSN 0976-4038).
- x. Reviewed articles of different International journals viz. Intercontinental Journal of Microbiology, Agricultural Science Research Journal.

Publications (Published during April 2012 - March 2013)

N. C. Mandal

- i. Mandal, N. C. . 2013. Postharvest Pathosystems of Potato and Their Management" In: 34th Annual Conference and symposium on Crop Disease Management : Advances and Challenges , organised by Department of Plant Pathology, N.M. College of Agriculture, Navsari, Gujarat . during 21-23 January , 2013
- ii. Mandal, N. C . 2012. Diagnostics & Plant Health Management under biotic - abiotic stress interactions under changing climatic Scenario and Aberrations" In: National symposium on Biotic - Abiotic Stresses in Plants under Changing Climate Scenario organised by Department of Plant Pathology, Uttar Banga Krishi Viswavidyalaya, Coochbehar , during 29-30 November, 2012.

K. Baral

Nayak, U.S., Baral, K, Rath, L.K. and Mandal, P. (2012). Seasonal incidence of *Leucinodes orbonalis* Guenne in brinjal and the effect of abiotic factors on its population dynamics. J. Plant Prot. Environ. 9(2) : 24-27.

Hirak Chatterjee

- i. Laskar, N. and Chatterjee, H. 2010. Impact of trap colour and height of placement for efficient trapping of melon fly, *Bactrocera cucurbitae* (Coq.) (Diptera: Tephritidae). Green Technology, 9:157-159.
- ii. Laskar, N. and Chatterjee H. 2010. Impact of soil treatment with insecticides on postembryonic development of melon fly, *Bactrocera cucurbitae* (Coq.) (Diptera: Tephritidae). Karnataka Journal of Agricultural Sciences, 23(1):166-168.
- iii. Laskar, N. Sinha, D. K., Hath, T. K. and Chatterjee, H. 2013. Diversity of predominant tephritid flies in sub-himalayan plains of West Bengal. Presented in the "International Conference on Insect Science", from 14-17 Feb, 2013 held at UAS, Bangalore.
- iv. Panda, T.; Mondal T. and Chatterjee H. 2012. Age specific female fertility life table of mealybug under laboratory conditions. In: National Symposium on Eco-Friendly Approaches to Pest Management for Sustainable Agriculture organized by Orissa University of Agriculture and Technology, Bhubaneswar Odisha, from 24th-25th November 2012

Ranjan Nath

Maji, A. and Nath, R. (2012) Epidemiological studies on *Xanthomonas campestris* pv. *campestris* caused by black rot of cabbage under field condition in red lateritic zone (Birbhum) of West Bengal. J. Interacad. 16(3) : 614 - 617

Palash Mondal

- i. Mondal, B. and Mondal, P. (2011). Ecofriendly pest management practices for leaf curl complex of chilli (*Capsicum annum* L.). Journal of Biopesticides, 5(Suppl.): 115-118 (ISSN 0974-6315, NAAS 3.2).
- ii. Das, R., Mondal, B., Mondal, P., Khatua, D. C. and Mukherjee, N. (2012). Disease intensity of citrus canker on acid lime in relation to abiotic and biotic factors. Journal of Agrometeorology, 14(Spl.): 107-112 (ISSN 0972-1665, NAAS 6.6).
- iii. Sitesh Chatterjee and Palash Mondal. 2012. Effect of incidence of yellow stem borer, *Scirpophaga incertulas* Walker and rice leaf folder, *Cnaphalocrocis medinalis* Guenee on different dates of sowing in boro rice. Wesleyan Journal of Research, 5: 55-62.

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- iv. U.S. Nayak, K. Baral, L.K. Rath and P. Mondal. 2012. Seasonal incidence of *Leucinodes orbonalis* Guenee in brinjal and the effect of abiotic factors on its population dynamics. *Journal of Plant Protection and Environment*. 9: 24-27.
- v. Paul, A. and Mondal, P. 2012. Effect of gamma radiation on mutagen sensitivity and mutability in field pea (*Pisum sativum* L.). *Journal of crop and weed*,8: 132-136.
- vi. P. Pramanik, P. Mondal and M.Chatterjee. 2012. Studies on biology of brinjal fruit and shoot borer, *Leucinodes orbonalis* (Guenee) under laboratory condition. *International Journal of Bio-Resource And Stress Management*. 3: 336-340.
- vii. Book : Rajesh Kumar; Mondal, P and M. K. Chakraborty (2012). Management of Gram Pod Borer in Chickpea: An Ecofriendly Approach to Obtain Sustainable and Higher Quality OProduction. LAP LAMBERT Academic Publishing GmbH & Co. KG, ISBN: 978-3-659-136955, Germany, USA and UK, pp. 212.

M. K. Biswas

- i. P.Pal, M.K.Biswas and B. Dasgupta(2011) Effect of intercropping on the incidence of mungbean yellow mosaic disease (YMD) caused by Mungbean Yellow Mosaic virus. *J. Botan. Soc.of Bengal* 65(2):pp-179-182.
- ii. P.Pal, M.K.Biswas and B. Dasgupta(2011) Epidemic development of mungbean yellow mosaic disease caused by Mungbean Yellow Mosaic virus . *J. Botan. Soc.of Bengal* 65(2):137-140
- iii. Payal Ghosh and M.K.Biswas (2012).Effect of interaction of various nitrogenous and lingo-cellulosic amendments on biomass production of *Pleurotus florida*. *Internationa Journal of Bioresource and Stress Management*3(4)437-439.
- iv. M.K. Biswas and A.K.Ghosh (2012) Relationship between environmental factors and development of *Alternaria* Blight of mustard caused by *Alternaria brassicae* . *J.Mycol.Plant Pathol*. Vol.42, No.1 ,pp-113-114
- v. Book Chapter: M.K. Biswas, Tapabijoy Mukhopadhyay and Soma Bhattacharjee (Biswas)2012. Cultivation of Paddy Straw Mushrooms (*Volvariella volvacea*) Under the Agro-Ecological Condition of Latritic Zone of West Bengal. In: Sustainable Agriculture and Environment(Eds. Kazi MB Rahim ,Debashis Sarkar,Bidhan Chandra Roy) New Delhi Publishers.,New Delhi ,93-102 ISBN 978-93-81274 -12-5

Bholanath Mondal

- i. Mondal, B. and Mondal, P. (2011). Ecofriendly pest management practices for leaf curl complex of chilli (*Capsicum annum* L.). *Journal of Biopesticides*, 5(Suppl.): 115-118 (ISSN 0974-6315, NAAS 3.2).
- ii. Bhattacharya, R., Mondal, B., Ray, S. K. and Khatua, D. C. (2012). A study on bacterial disease of betelvine in West Bengal, India. *International Journal of Bio-Resource and Stress Management*, 3(2): 211-216 (Print ISSN 0976-3988, Online ISSN 0976-4038).
- iii. Das, R., Mondal, B., Mondal, P., Khatua, D. C. and Mukherjee, N. (2012). Disease intensity of citrus canker on acid lime in relation to abiotic and biotic factors. *Journal of Agrometeorology*, 14(Spl.): 107-112 (ISSN 0972-1665, NAAS 6.6).
- iv. Mondal, B., Bhattacharya, I., Sarkar, N. C., Paul, A. and Khatua, D. C. (2012). Standardization of inoculation technique and screening of some brinjal and tomato lines against bacterial wilt. *Research on Crops* 13 (2): 737-742 (ISSN 0972-3226, NAAS 6.2, Thomson Reuters Impact Factor 0.036).
- v. Mondal, B., Sarkar, N. C., Mondal, C. K., Maiti, R. K. and Rodriguez, H. G. (2012). Mangrove plants and traditional ayurvedic practitioners in Sundarbans region of West Bengal, India. *Research on Crops* 13 (2): 669-674 (ISSN 0972-3226, NAAS 6.2, Thomson Reuters Impact Factor 0.036).
- vi. Rodriguez, H. G., Mondal, B., Sarkar, N. C., Ramaswamy, A., Rajkumar, D. and Maiti, R. K. (2012). Comparative morphology and anatomy of few mangrove species in Sundarbans, West Bengal, India and its adaptation to saline habitat. *International Journal of Bio-resource and Stress Management*, 3(1): 001-017 (Print ISSN 0976-3988, Online ISSN 0976-4038).
- vii. Mondal, B., Mahapatra, S. and Khatua, D. C. (2012). Records of some new diseases of horticultural plants of West Bengal. *Journal of Interacademia*. 16(1): 36-43 (ISSN 0971-9016, NAAS 3.0).
- viii. Bhattacharya, R., Mondal, B., and Khatua, D. C. (2012). Survival of *Xanthomonas axonopodis* pv. *betlicola*, the causal

- pathogen of bacterial leaf spot of betelvine. *Journal of Soil Biology and Ecology*, 32 (1 & 2): 8-14 (ISSN 0970-1370, NAAS).
- ix. Mondal, B., Ray, S. K., Misra, D. K. and Khatua, D. C. (2012). Bacterial wilt of banana in West Bengal, India. *International Journal of Plant Protection*, 5(2): 227-231 (Print ISSN 0974-2670, Online ISSN 0976-6855, NAAS 3.3)
 - x. Khatua, D. C., Mondal, B. and Ray, S. K. (2012). Bacterial canker - an upcoming threat to mango cultivation in West Bengal, India. *International Journal of Agriculture, Environment and Biotechnology*, 5 (4): 489-492 (Print ISSN 0974-1712, Online ISSN 2230-732X, NAAS 3.9).
 - xi. Hembrom, K. C., Ray, S. K., Mondal, B. and Khatua, D. C. (2011). Bacterial wilt of gladiolus and sensitivity of the pathogen towards chemical. *Journal of Plant Protection and Environment*, 8(2): 79-84.
 - xii. Book : Mondal, B. (2012). *Pathogenic Menace for Brinjal Cultivation in West Bengal: Bacterial Wilt of Brinjal*. LAP LAMBERT Academic Publishing GmbH & Co. KG, ISBN: 978-3-659-19234-0, Germany, USA and UK, pp. 127.

Designing New Course/curriculum or any other teaching innovations introduced by the Department.

M.Sc.(Ag) in Plant Protection syllabus with semester system revised during 2009-2010 was re-structured during the year 2011-12 based on the expertise of 7 faculties of this department as well as recent recommendation of ICAR. New syllabus for Ph.D. course work has been designed keeping in view of the recent advancement of knowledge in the subject and already introduced successfully.

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development.

The Department of Plant Protection was established in 1989 with the amalgamation of two important sections viz. Agricultural Entomology and Plant Pathology. Earlier these two major sections were functioning since 1965 under the Department of Agriculture, Palli Siksha Sadana. However, M.Sc.(Ag) in Plant Protection with specialization in Agril. Entomology and Plant Pathology were offered since 1987. Presently this department offers resident instruction programme in Agricultural Entomology and Plant Pathology comprises undergraduate instruction for the students of Palli Siksha Bhavana and postgraduate instruction leading to M.Sc. and Ph.D. degrees in Plant Protection. The faculty members of this department are actively involved in teaching, research and extensions and published around 400 research papers, review articles etc. in the referred international and national journals, and 6 authored/edited book chapters from Spain, Germany and India. Faculty of the department has got sanctioned 4 major research projects from AVRDC, Taiwan and Horticultural Mission, Govt. of West Bengal. The department provides special emphasis on field oriented practicals and trainings to both UG and PG students as well as Rural Agricultural Work Experience programme to UG students. In addition to that the faculty members conducted special classes exclusively for the purpose of JRF and guided final year B.Sc. (Ag.) Honours students for ICAR, JRF. The postgraduate students are trained in economic entomology, biocontrol, ecology, toxicology, physiology, taxonomy, mycology, bacteriology, virology, Mushroom pathology and post harvest pathology. Traditional strengths of research in the department had been in economic entomology, toxicology and biological control. At present emphasis is on synthesizing IPM modules for different crops involving bio- agents, cultural practices, host plant resistance and eco friendly chemicals.

Any other relevant information, which in the opinion of the Head of the Department is worth reporting should be included.

The department has planned to establish a Plant Health Clinic for providing single window solution to the farmers of adjoining areas as well as to set up a well-equipped laboratories for conducting research at Molecular level.

PATHA BHAVANA (INSTITUTE OF PRIMARY, SECONDARY & HIGHER SECONDARY EDUCATION)

Patha Bhavana, the poets' school, was founded by Rabindranath Tagore in the model of Tapovana Education in 1901. The idea of 'going beyond' led to its growth as a University-Visva-Bharati- an Institution of National importance. As was contemplated it is primarily a residential institution, though there is facility to study as a day- scholar. It imparts education from K.G. to class-XII. After class X students take the 'School Certificate examination' and after class XII they take Pre-Degree Examination conducted by "Visva-Bharati". Mrinalini Ananda Pathasala, established in 1954 in the name of Rabindranath's wife Mrinalini Devi, is the nursery unit of Patha-Bhavana. Children are admitted here at 4+ years. The children move on to Patha-Bhavana on completion of two years of learning at Pathasala.

Patha-Bhavana still upholds Tagore's idea of education, which he conceived going beyond learning to add to the completeness of an individual. It was and still is a deviation from conventional institution. Tagore tried to develop a curriculum which would be different from only text based learning. At Patha-Bhavana activities are designed to help children to learn the value of innovation and creativity. Students are exposed to paintings, clay modeling, handicraft and other creative assignments. Every student has to take part in music and dance. All these are given equal weightage in the learning process. Attending weekly prayer meetings, participating in the games & sports and festivals of the university are part of the life of being a student of Patha-Bhavana.

Facilities are there to let one's sensitive heart feel the harmony that exists in nature and to be one with it. Joy, freedom, mutual trust, co-operation, are the basic principles. These are actually manifested through Ashram Sammilani activities (Students, Council) which aim at development of self-discipline, self-restraint. It has several wings and notable among the wings are the activities of Paribesh Vibhaga (Environment), Sahitya-Vibhaga (Literary Unit), Seva Vibhaga (Social Service).

As on 31.12.2012 the role strength of Patha-Bhavana was 1176 out of these students' 314 were Residents and 862 were Day scholars.

- 1. Departmental Seminar (Speakers, Title of the Seminar, Date):** National Seminar was organized by the Bhavana from 21.2.2013 to 23.2.2013 on "Tagore's Patha Bhavana: Experiment in education."
- 2. National and International Standard (Conferences / Seminars / Workshops / Exhibitions etc. attended by Teachers / Research Scholars in details.**
 - A. **Bodhirupa Sinha**, Adhyaksha, delivered the inaugural lecture on 'Tagore's Patha Bhavana: Experiments in Education' in the National Seminar from 21st February to 23rd February, 2013 organised by Patha Bhavana, Visva Bharati
 - B. **Dr. Amitava Mukherjee**, Asstt. Lecturer, (English) participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and presented a paper titled: 'The Curriculum at Patha Bhavana.'
 - C. **Avik Ghosh**, Grihadhyaksha, participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and delivered a lecture on: *যবাই উ*
 - D. **Kishor Bhattacharya**, Asstt. Lecturer, (Geography) participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and presented a paper titled: *"যবাই উ %ঊঋঌ঍- যবাই উঊঋঌ঍"*
 - E. **Shilpi Mukherjee**, Asstt. Lecturer, (History) participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and presented a paper titled: Tagore's Educational Ideas in the Context of Present Patha-Bhavana.

Nilay Ray

16th April, 2012 : Successfully completed ICT in Education from UNESCO through e-learning.

21st - 23rd February, 2013 : Participated in the National Seminar on Tagore's Patha Bhavana : Experiments in Education" at Patha Bhavana, Visva-Bharati, Santiniketan.

Dr. Nirmal Kr. Mahato,

Asstt. Lecturer (History)

Participated in the following Seminar/Workshop.

(i) Paper presented at the National Seminar organised by Patha-Bhavana, 21st February to 23rd February, 2013.

Title of the paper: '**THE METHOD OF HISTORY TEACHING AT PATHA-BHAVANA**'

(ii) Paper entitled 'Adivasi Perception of Landscape': The Cane of Purulia at the National Seminar organised by Dept. Of History, Burdwan University, 20st March to 21st March, 2013.

F. **Shri Partha Chakravorty**, Grihadhyaksha, participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and presented a paper titled: "YCPd [pXly] É d'X [y] [0] C Tdy Yba xEd c"

Priti C. Nartiang

Asstt. Lecturer, Arts & Crafts

attended the following Workshop/Seminar.

(i) Techno India Group in collaboration with SSVAD on Art. September 22 to 24, 2012.

(ii) National Workshop on Eco-Friendly printing with natural dyes, organised by Department of Silpa-Sadan, Visva-Bharati, Santiniketan, West Bengal. 8th to 9th December, 2012.

Seminar and Paper Presentation:**National Seminar on Handloom Textiles. "THARI: Tradition in the Modern"**

Paper presented: "Journey of Loom in the North Eastern part of India" at Department of Fine Arts. Stella Maris College. Chennai. 12th - 13th February, 2013.

(iv) Design Innovation in Indian Fabric Art # 1950 - 2000.

Paper presented: "Indigenous and Ethnic Designs of North Eastern India" at Department of Painting (Banaras Hindu University) in collaboration with Department Commissioner of Handlooms, Ministry of Textile Govt. Of India on 22nd - 23rd February, 2013.

(v) Conducted Weaving Workshop on Backstrap loom at Mayo College for Girls, Ajmer, Rajasthan on 2nd to 4th August, 2012.

(vi) Conducted Weaving Workshop on Backstrap loom at Stella Maries Girls College, Chennai on 14th - 16th February, 2013.

(vii) Paper Presented Published at Nandan Magazine by History of Art Department, Kala Bhavana, Visva-Bharati University.

Title - "Textile of the North Eastern Region of India", December - 2012.

Rati Basu, Asstt. Lecturer, (Drawing and Painting) participated in the following Seminar/Workshop.

National Seminar on 'Tagore's Patha Bhavana: Experiments in Education'. 21st February to 23rd February, 2013. Attended all 3 days and presented paper, titled: 'Grasping the Intangible - Art Making in Patha Bhavana' on 22nd February, 2013.

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Shilpi Mukhopadhyay,

Asstt. Lecturer, (History)

Participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and presented a paper titled: 'On the Educational Philosophy and Ideals of Rabindranath'.

J. Shri Tarit Roy Choudhuri, Asstt. Lecturer, (Bengali) participated in the National Seminar on 'Tagore's Patha Bhavana: Experiments in Education' from 21st February to 23rd February, 2013 and presented a paper titled:

"পথভাবনা [১৫]"

Extension activities/NSS/Cultural and other activities organized by the department and participated by the Teachers and students of the Department :

- (i) The Dance Drama 'Chandalika' was performed on the occasion of the Bengali New Year on 15 April 2012.
- (ii) On 14.9.2012 students of Patha Bhavana participated in 'Sesh Barshan' in Kolkata along with Patha Bhavana Praktoni Sammilani.
- (iii) A group of 15 students of Patha-Bhavana staged Rabindranath Tagore's 'Bhanga Gara' in a state level competition of short plays (School level) organized by 'Aneek' at Yuba Bharati Krigangan, Kolkata in September 2012.
- (iv) 'Kshirer Putul' and 'Muktadhara' were performed during Sharad Utsav on 1st and 2nd October, 2012.
- (v) The teachers and students of Patha Bhavana staged Tagore's 'Dakghar' on the occasion of the centenary year of the play as a part of a Seminar organized by Rabindra Bhavana.
- (vi) Different Cultural Programme like 'Sahitya Sabha' and other activities like 'Dan Sangraha' and 'Gram Paridarshan' were regularly held by the Asram Sammilani. The Ashram Sammilani celebrated its centenary this year. A day-long programme was organized on 19.12.2012 in this regard.
- (vii) Different NSS activities were performed by the students of class XI & XII.

Publications within the year April 2012 - March 2013:

i) Text books (ii) Other books (iii) Monographs (iv) Research Papers (Author(s), title of Paper, year journal volume No., Page), (v) Number of papers published in Peer/reviewed journals: National/International.:

Rati Basu :

(i) Publication: Article titled 'Learning in Joy' published in the special issue on Arts in School Education of the 'Learning Curve' issue XVIII, September 2012. A publication from Azim Premji University.

Books: All illustrations in the book: Monisha and the stone Forest (English), Monisha ar Pathorer Bon (Bengali). Published by Geological Society of India, Bangalore; Popular Science Series Number 5, August 2012. Written by Nigel Mughes, Professor of gedogy at the University of California, Riverside.

Tarak Nath Saha

- (i) Large amplitude double-layers in a dusty plasma with a q-nonextensive electron velocity distribution and two-temperature isothermal ions. PHYSICS OF PLASMAS 19, 042113 (2012). Published On Line 30 April 2012.
- (ii) Arbitrary amplitude double layers in a four component dusty plasma with Kappa distributed electron. ASTROPHYS SPACE SCIENCE (2012) 342: 125-129. Published on line 18th July, 2012.
- (iii) Effect of ion temperature on ion-acoustic solitary waves in a plasma with a q-non-extensive electron velocity distribution. PHYSICS OF PLASMAS 19, 104502 (2012).

SIKSHA-SATRA

(INSTITUTE OF HIGHER SECONDARY EDUCATION)

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development:

Siksha-Satra had started with six students on 1st July, 1924 at Santiniketan in the house of Santosh Chandra Mazumdar who took over the charge of the School under the constant guidance of Rabindranath Tagore and Elmhirst. Referring to the training of students Tagore says, 'I tried my best to develop in the children of my school the freshness of their feeling for Nature, a sensitiveness of soul in their relationship with their human surroundings, with the help of literature, festive ceremonies and also the religious teaching which enjoins us to come to the nearer presence of the world through the soul, thus to gain it more than can be measured- like gaining an instrument, not merely by having it, but by producing music upon it.' Siksha-Satra is the natural outcome of some years of educational experiments at Santiniketan and of two years of experience at the Institute of Rural Reconstruction at Sriniketan. Principles upon which it is based are little more than common-sense deductions from the failures and successes of the past. The Poet admits, 'I am therefore all the more keen that Siksha-Satra should justify the ideal I have entrusted to it, and should represent the most important function of Sriniketan, in helping students to the attainment of manhood complete in all its various aspects. Our people need more than anything else a real scientific training that can inspire in them the courage of experiment and the initiative of mind which we lack as a nation. Sriniketan should be able to provide for its pupils an atmosphere of rational thinking and behavior, which alone can save them from stupid bigotry and moral cowardliness. I myself attach much more significance to the educational possibilities of Siksha-Satra than to the school and college at Santiniketan, which are every day becoming more and more like so many schools and colleges elsewhere in this country: borrowed cages that treat students' minds as captive birds, whose sole human value is judged according to the mechanical repetition of lessons, prescribed by an educational dispensation foreign to the soil. It would indeed give me great joy if Sriniketan could at last make use of its opportunities to realize my dream ...' Siksha-Satra initially was a residential school for village boys drawn from the neighbourhood. Its aim was to give an all-round training to a number of boys so that after they had completed their training they might go back to their respective villages and carry on the work of rural reconstruction together with the trade they had learnt. At present however Siksha-Satra doesn't have residential facility.

Departmental Seminar (Speakers, Title of the Seminar, Date):

One day seminar on 'Rabindranath and Upendrakishore in Bangla Children's Literature', 9th March 2013, Santosh Pathshala, Siksha-Satra.

National and International standard Conference/Seminar/Workshop/Exhibition etc. attended by Teachers/Research scholars in details.

Asim Kumar Majumdar

- i) Attended with Paper presentation in the 'International Seminar on History of Mathematics', November 19-20, 2012, Ramjas College (PG College under University of Delhi), New Delhi
- ii) Attended with Paper presentation in the 'International Conference on History and Development of Mathematical Sciences', November 21-24, 2012, MD University, Rohtak, Haryana

Dibyendu Mondal

- i) Attended a workshop on 'Learner-Centred Classrooms', conducted by the British Council on 18th March 2013 in Kolkata
- ii) Attended a one-day seminar on 'Rabindranath and Upendrakishore in Bangla Children's Literature', 9th March 2013, Santosh Pathshala, Siksha-Satra

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- iii) Read poems in the Poetry Festival, dedicated in the memory of Sunil Gangopadhyay, on 1st March 2013 at Lipika, Santiniketan, organized by Abrittilok, Kolkata, with the financial support of the Ministry of Culture, Government of India, and in collaboration with Sahitya Akademi and Visva-Bharati Adhyapaka Sabha
- iv) Attended a one-day English Language Teaching Workshop, Conducted by Oxford University Press on 23rd February 2013 in Santiniketan
- v) Attended a workshop on 'Positive Influencing Skills', conducted by the British Council on 18th December 2012 in Kolkata
- vi) Attended a workshop on 'Effective Team Communication', conducted by the British Council on 17th December 2012 in Kolkata
- vii) Attended a workshop on 'National e-Governance Plan', organized by Computer Centre, Visva-Bharati, sponsored by Department of Electronics and IT, Ministry of Communications & IT, Government of India, on 3rd December 2012 in Santiniketan

Others

- i) Coordinated Helga Todd Teachers' Education Foundation Award Programme in Visva-Bharati from the month of June to August in 2012 in association with Faculty of Education, University of Cambridge

Ganesh Mondal

- i) Presented a paper entitled 'Generation of dressed soliton in a four component dusty plasma with nonthermal ions', in a seminar in the Department of Mathematics, Visva-Bharati, 17-18 March 2013
- ii) Attended a National seminar on 'Mathematics and Its Application', in the Department of Mathematics, Visva-Bharati, 30 March 2013
- iii) Attended a workshop on 'National e-Governance Plan', organized by Computer Centre, Visva-Bharati, sponsored by Department of Electronics and IT, Ministry of Communications & IT, Government of India, on 3rd December 2012 in Santiniketan

Ipsa Bandyopadhyay

- i) Presented paper at the International Tagore Conference on 'Tagore: The Global Impact of the Writer in the Community', 4-6 May 2012, Edinburgh Napier University, Scotland
- ii) Presented paper at a seminar on 'Tagore's Patha-Bhavana: Experiments in Education', 21-23 February 2013, Patha-Bhavana, Visva-Bharati, Santiniketan

Krishnendu Dey

- i) Attended a workshop on 'National e-Governance Plan', organized by Computer Centre, Visva-Bharati, sponsored by Department of Electronics and IT, Ministry of Communications & IT, Government of India, on 3rd December 2012 in Santiniketan
- ii) Participated in the 17th National Conference of Indian Aerobiological Society on December 13-15, 2012 at Puna, on 'Impact of Airborne Microbes' jointly organized by Maeers Arts, Commerce and Science College, Puna, Maeer's Maharashtra Institute of Pharmacy, and displayed a poster namely 'Circadian Pollen Release in *Perthenium Hysterophorus L*'
- iii) Attended a National Symposium on 'Plant Microbe Interaction and Crop Health Management', organized by Department of Plant Protection, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan, on October 6-7, 2012
- iv) Attended a one-day seminar on 'Rabindranath and Upendrakishore in Bangla Children's Literature', 9th March 2013, Santosh Pathshala, Siksha-Satra

Sandeep Kumar Bhakat

- i) Attended with Paper presentation in the 'International Seminar on History of Mathematics', November 19-20, 2012; Ramjas College (P. G College under University of Delhi), New Delhi.
- ii) Attended with Paper presentation in the 'International Conference on History and Development of Mathematical Sciences', November 21-24, 2012; M. D. University, Rohtak, Haryana.
- iii) Attended the International Seminar 'The Legacy of Ramanujan', December 17-22, 2012, University of Delhi.

- iv) Attended with Paper presentation in the 'National Meet on Celebration of National Year of Mathematics-2012', December 20-22, 2012; N. C. E. R. T, New Delhi.

Vandana Hazra

- i) Attended a District level Kabadi coaching camp, under 17 years girls group, as a Coach at Bolpur Stadium in the month of August 2012.
ii) Took the State level Athletic Team to Salt Lake Stadium, Kolkata, as a team Coach for Girls from 3 to 5 January 2013.

Extension activities/NSS/Cultural and other activities organized by the Department and participated by the Teachers and students of the Department.

- i) The students of Siksha-Satra staged Tagore's play 'Chandalika' at Gourprangan on 25th Baisakh.
ii) The students of Siksha-Satra staged two plays: Gupi Gayen Bagha Bayen, directed by Md Mozharul Hamid, and Satyi Satyi Khela, directed by Gargi Ghosh
iii) The NSS Unit of Siksha-Satra organized a blood donation camp on 2 August with the help of Bolpur Sub-Divisional Hospital, Sian. 70 participants donated blood.
iv) In July 2012, students of Class XII participated in a certificate course on Blood Donation in association with West Bengal Association of Voluntary Blood Donors.
v) 85 Cadets, including 40 Girl Cadets and 45 Boy Cadets, participated in NCC in the current academic year. In October 2012, the Cadets took part in Firing Practice in 50 Bengal Battalion.
vi) A team of 20 persons, including students, teachers and non-academic staff, toured Sri Lanka from 25 September- 7 October 2012, being invited by the Principal, Hillwood College, Kandy. The students of Siksha-Satra performed Tagore's two dramas: Chandalika, and Rituranga,
vii) An Art and Craft exhibition was organized at Nandan, Kala-Bhavana, from 7 September to 11 September 2012.
viii) Students participated in different events in Athletic Meet at Block and Sub-Division District and State levels. At the District level Jay Haque Mondal of Class VI stood First in Shot Put, and Sudipta Mondal of Class VI stood Third in 200 Mts Sprint. At the State level Jay Haque Mondal secured fourth position.
ix) On 7 August, Abantika Ghosh and Saikat Das of Class X, participated in the District level Discussion on Mathematics Education in India: Past, Present and Future, jointly organized by National Council of Science Museum, Govt of India, and Department of Youth Services, Govt of West Bengal. Abantika Ghosh bagged the second prize.
x) Study Tours were conducted in Nainital, Lucknow, Rajgir, Gaya, Deul and Jaydev.

Asim Kumar Majumdar

- i) Life Member of Indian Society for History of Mathematics

Dibyendu Mondal

- i) Qualified the UGC-NET for Lectureship held in June 2012 in the subject English
ii) Life Member of Indian Association for Commonwealth Literature and Language Studies
iii) Member of English Language Teachers' Association of India
iv) Member of The Asian Association of Teachers of English as a Foreign Language

Publications within the year April 2012 - March 2013.

Dibyendu Mondal

Text books:

Pre-Degree English Selections, (3rd Edition), co-edited with Uma Chatterjee (Visva-Bharati, 2012)

Ganesh Mondal

Research Papers. (Author(s), title of Paper, year Journal volumn No., Pages)

'Dust acoustic dressed solitons in a four component dusty Plasma with superthermal electrons', Journal of Science and Technology in the Tropics, 8 29-40, 2012

Md Mozharul Hamid

- i) Other books:

Oder Putul, published by Bhasa Lipi

OTHER ACADEMIC CENTRE

RABINDRA-BHAVANA

HISTORY OF RABINDRA-BHAVANA

It is indeed interesting that Rabindranath, despite his numerous foreign tours and several visits ranging from capitals of states to remotest corners of the country which earned for him the coveted title of the 'wayfarer poet', always nurtured a desire to shift to manifold abodes, dictated either by necessity or emanating from an urge for diversity. However, towards the end of his life the poet initiated construction of a mud hut with thatched roof in an almost deserted land by the side of 'Khoai' river. He fondly named it 'Rabi's Uttarayana'. Subsequently five houses viz. Konark, Udayana, Udichi, Shyamali and Punascha, vibrating with his reminiscences during his stay in the last twenty years of his life, add a new dimension to the ambience of entire Uttarayana Complex.

The construction of Bichitra - the first house on the left in Uttarayana Complex in 1961 i.e the birth centenary year of Rabindranath Tagore and subsequently named as Rabindra-Bhavana, is a land mark event in view of the fact that Rabindra-Bhavana since its inception is used as repository of Tagore collection and a core centre of Tagore - related research and understanding. Rabindra-Bhavana comprises several units viz museum, archives, library, audio visual, preservation and garden units. Added to these, Rabindra Charcha Prakalpa and Research and Lipika Manuscriptorium and Hall are two other important facades of Rabindra-Bhavana, adding glow to its luminous brilliance.

At present Rabindra-Bhavana is an integral part and principal constituent of Tagore Memorial Institute, as recommended by High Level Committee, appointed by the Paridasaka of the Visva-Bharati.

Name of the Adhyaksha of the Bhavana and Director, Culture & Cultural Relations: Professor Tapati Mukhopadhyay
Activities and Achievement of different Units of Rabindra- Bhavana in the financial year 1st April, 2012 to 31st March, 2013.

Museum:

The newly - renovated Rabindra-Bhavana Museum was inaugurated by Sri M.K.Narayanan, Hon'ble Governor of West Bengal and Rector, Visva-Bharati on 6th August, 2012. Thousands of visitors, emerging from different parts of India and abroad visit this biographical museum to pay their tribute to the efflorescence of Tagore's creativity.

Revenue: (from 09.08.2012 to 31.03.2013)

Gate Money received from adults Rs. 14, 44,500.00

[@ of Rs. 10/- per head]

(Total tickets sold: 1, 44,450 numbers)

Gate Money received from students and children Rs. 1, 56,280.00

(@ of Rs. 5/- per head)

[Total tickets sold: 31,256 numbers]

Total Rs. 16, 00,780.00

(Rupees Sixteen Lakh Seven Hundred Eighty)

Gifts received by Museum:

Sl.no.	Name of Donor	Description of material	Acc.no.	Date
1	Received through Prof. U.N.Singh- (Pro-V.C.)	Address from office of Mayor, city of New York on Rabindranath Tagore Day Size: 47x33cm.	12.4350.6	26.4.12

2	Do	Miss Flora,Portrait by Andree Karpele Charcoal on paper, ,fixed on pitch board Size: 45.7x32.6cm.	12.4351.18	4.5.2012
3	Do	Prof. Tan Hun Sun Crystal glass block Size: 12.5x17.5cm.	12.4352.19	4.8.2012
4	Postal Dept. Kolkata, W.B.	Postal stamp(A+B+C+D) Printed on paper with some original stamps. Paper size 29.5x22.5cm	12.4353.19	14.9.2012
5	Bangladesh Govt.	Chapala Boat(aluminium) Size:123x23 with stand	12.4354.8	27.9.2012
6	Do	Padma Boat (wood)	12.4355.8	27.9.2012
7	Prof. Shyama Prasad Ganguli	Spectacles,Size;6x13cm.. of Vidusia O Campo	13.4356.19	18.02.2013
8	Prof. Shyama Prasad Ganguli	Wooden Case only,Size 10x25.5cm.	13.4357.19	Do
9	Prof. Shyama Prasad Ganguli	White Stole with Golden zari size:28x224cm.	13.5358.7	Do

Particulars of work done in the financial year 2012-13 :

1	Accessioning of New arrivals (Original Documents)	Acc. Nos.278---279 (02 collections accessioned	Other four collections are under process
2	Accessioning of New arrivals (Copy).	01	
3	Accessioning of New arrivals (CD/DVD)	Acc. Nos. 41-44(04 collections accessioned)	
4	Nos. of Scholars/ Researchers attended	133	
5	Nos. of DVD issued to different Scholars/ Researchers at different times	550 DVD (JPEG) issued different times to consult Documents.	
6	Original documents shown to Researchers/ Scholars	05 Documents.	
7	Information rendered to different Scholars/ Researchers/ users	75 occasions	
8	Telephonic/ Mobile/e-mail information rendered to different Scholars/ Researchers/ users at different times	148 occasions	
9	Nos. of Manuscripts cleaned in the Strong Room		110
10	Nos. of Pages photographed on different occasions (Documents taken out from Strong Room and restored after work).	Nil	

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11	Print-outs given to different Scholars/ Researchers/ users.	119 pages	Reprographic job done by the personnel of the Archives
12	Nos. of images from JPEG to transfer in CD/DVD/Pen drive for Scholars/ Researchers/ Official Purpose.	3620	Reprographic job done by the personnel of the Archives
13	Nos. of images from TIFF taken out from the Strong Room to transfer in CD/DVD for Scholars/ Researchers/ users.	4717	Reprographic job done by the personnel of the Archives
14	Attended Distinguished Visitors/ Dignitaries at different times.	Documents shown on 37 different occasions.	
15	Monitoring of the Strong Room/ Recording & monitoring of the relative humidity and temperature with the help of dehumidifier.	At least 02 times on each working day.	

Particulars of work done in the financial year 2012-13:

Coverage of Visva-Bharati functions:

1.	Audio recording	21 Hours
2.	Video recording	30 Hours

Coverage of Rabindra Bhavana seminar, literary session and work-shop:

1.	Audio recording	32 Hours
2.	Video recording	55 Hours
3.	Still photography	7630

Routine work:

1.	Audio service rendered to the scholars:	10 Hours
2.	Video service rendered to the scholars:	6 Hours
3.	Glass negative scanning:	2
4.	Conventional negative scanning:	102
5.	Photograph digitization:	622 Images
6.	Digital image restoration:	87 Images
7.	Gramophone disc cleaning:	112

Unit routine work (Photo section):

1.	Number of scholar attended:	110
2.	Digital images on CD given to scholars:	1016 images

Gift received:

1.	Audio CDs:	Nil
2.	Video CDs:	4 Numbers
3.	Digital photographs on CD:	2 CDs
4.	Number of digital images:	42

Preservation Unit:

This unit takes care of the preservation requirements of old archival materials, rare and brittle books and museum items. Fumigation, de-acidification, lamination, tissue repair and binding of books are carried out in this unit. This unit is doing an excellent job by way of preserving old estate papers and Sriniketan papers for posterity.

Particulars of work done in the financial year 2012-13:

Sl. No.	Type of Particulars	Total Number of Books/Others.	Total Number of Pages	Total Number of Sheets	Treatments
1	Tissue Lamination	9	6126	3063	P.H. Test. De-Acidification and Applied Conservation Process.
2	Tissue Repair/ Tissue Lamination. (Tagore Estate Papers, 133 years old)	29 (Bunch of Documents)	5716	2858	Fumigation for Insect Killing, Documentation through Digitization, Pagination, De-Binding, Dry-Brushing, De-Acidification (Aqueous & Non-Aqueous), Tissue Lamination & Repair, Serialization, Half Leather & Full Cloth Binding and Wrapping.
3	Archival Book Binding	29 + 11= 40			Archival Binding Process.
4	Book Binding	249			General Binding Process.
5	Photographs	Nil			Mechanical Cleaning, Ink-Fixing, Stain Remove, P.H. Test, De-acidification, Tissue Repairing and Mounting.
6	Newspaper Clippings	20	1607		Mark wise cutting, dating, pasting on paper and

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			mark by seal and number.
7	Binding of Paper Clipping	20	Full-cloth Binding.
8	Cover Binding	10	General Binding with paper.
9	Folder (Gramophone, Record Player and C.D. etc.	18	
10	Binding Tissue	370	Only tissue used for binding.
11	Miscellaneous works, day to day Stitching for entire Bhavana's requirements and occasionally helping the sales counter and functioning as Museum Guide etc.	100 approx. (Stitching). 400 approx (Making Sets).	

Rabindra Charcha Prakalpa and Research:

With a view to promote Tagore-centric research, this unit has published research journal 'Rabindrabiksha' vol. 52 and 53 in the year under review.

To sensitize the entire staff and students of Visva-Bharati about Tagore and his myriad-minded creativity, Rabindra-Bhavana, in collaboration with Board of Studies, Tagore Studies had organized a two-day Workshop on 10th and 24th February, 2013 at Lipika Auditorium. Quite a few Tagore scholars discussed about Tagore and his relevance in contemporary global scenario.

Kalanukramik Rabindra Rachanavali Prakalpa:

A research team comprising young scholars is working at break-neck speed under the guidance of eminent scholars. The first volume of KRR is almost on verge of completion and is going to be published shortly.

Major Research Project funded by UGC:

Dr. Amrit Sen, Associate Professor, Department of English, Visva-Bharati and at present attached to Rabindra-Bhavana for higher research, has been assigned a Major Research Project entitled 'Tagore and Science', funded by UGC.

Lipika Manuscriptorium:

Lipika Manuscriptorium is a repository of about 12500 Manuscripts pertaining to different languages and archaic scripts such as Sanskrit, Bengali, Oriya and Tamil as well as Surul and Joydev Kenduli records. The writing materials of the MSS are in palm-leaf, Teret Palm leaf, Sanchipat and Tulot paper. Acquisition of MSS, Fumigation, Preventive and Curative Conservation (with the help of INTACH and National Archives of India) examination, identification, shelf marking, keeping the items in the stack according to accession number, preparation of hand list, preparation of Descriptive Catalogues, Augmenting users activities and Editing of MSS are carried out by the centre.

A five day's Workshop on 'Preventive Conservation of MSS' was organised in collaboration with the MRC Calcutta University, Kolkata under the patronage of National Mission for Manuscripts (NMM), New Delhi during 9-13 September, 2012.

A MoU has already been signed between Visva-Bharati and NMM and Lipika Manuscriptorium, Rabindra-Bhavana has been declared by the NMM as a Manuscript Resource Centre.

A certificate course on Manuscriptology is proposed to be introduced from the ensuing academic season for which administrative paraphernalia has already been taken care of.

No. of MSS: (1) Bengali-7752, (2) Sanskrit-3549, (3) Oriya-1102, (4) Tamil-16

MSS Conserved by INTACH: a) Preventive - 8384 bundles
b) Curative-2013 bundles

**Rabindraprabaha/Seminar/Workshop/Conference/Exhibition/
Publication/Important Event etc.
(From May 2012 to March 2013)**

Rabindraprabaha:

Sl. No	Date	Title	Venue	Organised by	Name of the Programme
1	27-05-12	Rabindranather Sikhya Chinta	Udayana Griha, Uttarayan.	Rabindra-Bhavana	Rabindra-Prabaha
2	24-06-12	Rabindranather Sikhya Chinta	-Do-	-Do-	Rabindra-Prabaha
3	29-07-12	Rabindranather Sikhya Chinta	-Do-	-Do-	Rabindra-Prabaha
4	26-08-12	Keno Sriniketan	-Do-	-Do-	Rabindra-Prabaha
5	20-11-12	After Tagore 150-How to go from here: Some personal reflections	-Do-	-Do-	Rabindra-Prabaha
6	19-01-13	Tagore's song in Hindi	-Do-	-Do-	Rabindra-Prabaha

Smarane Barane:

Sl. No	Date	Title	Venue	Organised by	Name of the Programme
1	03-06-12	Rathindranath	Sriniketan Fresco	Rabindra-Bhavana	Smarane-Barane
2	27-08-12	Swarna Kumari Devi	Udayana Griha, Uttarayan	-Do-	Smarane- Barane
3	30th Sep, 2012	Saraladevi Choudhurani	-Do-	-Do-	Smarane-Barane

Other important events:

1	22nd Sraban,	Inauguration of	Vichitra Reading	Rabindra-Bhavana	I n a u g u r a l
	Museum Room			1419 B.S.	
2	12-09-12	Padma Boat Presentation	Vichitra Hall & Lipika Auditorium	Rabindra-Bhavana & Sangit-Bhavana	International event & cultural programme

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3	18-12-12	Release of bilingual version of Gitanjali by Hon'ble Governor, West Bengal and presentation of first copy to Hon'ble President of India.	Rathindra Atithi Griha	Visva-Bharati & Rabindra-Bhavana	Visit by Hon'ble President of India.
4	19-12-12	Scientific Thought of Rabindranath Tagore	Uttarayan Prangana	Visva-Bharati	-Do-

Seminar/ Workshop/Conference/Others:

1	07-07-12	Satabarshe Tagore's song Offerings'	Lipika Auditorium	Rabindra-Bhavana & Sangit-Bhavana	Cultural progammme
2	9 to 13Sep, 2012	Preventive Conservation Workshop of Manuscripts	-Do-	Rabindra-Bhavana & National Manuscript Mission	National Manuscript workshop
3	03-12-12	Centenary Celebration of drama 'Dak -ghar'	-Do-	Rabindra-Bhavana	Seminar followed by dramatic performance by Patha-Bhavana and exhibition.
4	03-02-13	Gitanjali to Song Offerings: A Tribute to Rabindranath Tagore.	-Do-	Rabindra-Bhavana	National Seminar
5	10-02-13	Rabindranath & Santiniketan	-Do-	Rabindra-Bhavana & Tagore Studies Unit, Visva-Bharati	Workshop
6	17-02-13	'Victoria Ocampo'	-Do-	Rabindra-Bhavana	Presentation of Tagore memorabilia followed by a seminar.
7	24-02-13	Rabindranath & Santiniketan	-Do-	Rabindra-Bhavana & Tagore Studies Unit, Visva-Bharati	Workshop

8	14th to 15th March,13	"A Man of Letters: Rabindranath Tagore And His Epistles"	-Do-	Rabindra-Bhavana	International Confer ence.
9	24th March, 2013	Rathindranath the Unsung Hero	-Do-	Rabindra-Bhavana	National Conference

Exhibitions Organized by Rabindra-Bhavana:

Sl. No.	Date from	Date to	Venue	Title/Theme
1	08-05-12 Rabindra-Bhavana	05-08-12 Rabindranath Tagore,	Vichitra Hall,	Glimpses of his life
2	03-06-12	17-06-12	Sriniketan Fresco	Smarane-Barane: Rathindranath Tagore.
3	02-08-12	18-08-12	Vichitra Hall, Rabindra-Bhavana.	Smarane-Barane: Dwarakanath Tagore
4	27-08-12	03-09-12	Udayana, Uttarayana	Smarane-Barane: Swarna Kumari Devi
5	03-12-12		Lipika Auditorium	Dakghar
6	20-12-12		-Do-	"Alex Aronson (30 October, 1912 to -10 December, 1995)
7	23-12-12	26-12-12	Exhibition Stall, Pous Mela Ground	Centenary Celebration of " Dakghar " From Gitanjali to Song Offerings
8	03-02-13	11-02-13	Bichitra Hall, Rabindra-Bhavana	
9	03-02-13	11-02-13	Bichitra Hall, Rabindra-Bhavana	Victoria Okampo and Tagore: a Vibrant Relationship

Ongoing Research Projects in the Department:

- i) Name of the Coordinator: Prof. Tapati Mukhopadhyay
- ii) Name of the Project: Kalanukramik Rabindra Rachanavali Prakalpa
- iii) Sponsoring Agencies: Ministry of Culture, Govt. of India
- iv) Amount sanctioned: Rs. 3,04,57,259.00

Outreach programme, conducted by the Bhavana this year:

- a) 30 blankets had been donated to Bharat Sevasram Sangha and Binapani Asharama for tribal students by Hon'ble Vice-Chancellor out of RBDC-TTF Fund.
- b) A sum of Rs. 50,000/- had been donated by Hon'ble Vice-Chancellor to Ghosaldanga Evening School for academic development of tribal students.

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7. Academic distinctions gained by Teachers/Scholars or the Department as a whole (Like recognition as D.S.A or C.A.S etc.): A major Research Project funded by UGC on 'Tagore and Science' had been assigned to Dr. Amrit Sen (at present attached to Rabindra-Bhavana)
8. Publications within the year April 2012-March 2013: (for individual papers see Appraisal Reports)
 - a) Apart from Research Journal Rabindrakiksha, Rabindra-Bhavana has published a bi-lingual edition of Gitanjali, decked with manuscripts, hitherto unpublished archival materials and rare photographs. The book is jointly edited by Prof. Tapati Mukhopadhyay and Dr. Amrit Sen. This book was released by Sri M.K.Narayanan, Hon'ble Governor, West Bengal and Rector, Visva-Bharati on 18th December, 2012 and the first copy of the book was presented to Sri Pranab Mukherjee, Hon'ble President of India and Paridarsaka, Visva-Bharati.
 - b) A monograph on 'Rabindranath Sikshachinta' comprising of three lectures delivered by eminent scholars in 'Rabindra-Prabaha' scheme was published in November, 2012.

Publications of Rabindra-Bhavana:

1. Museum Folder.
2. Rabindra-Viksha 52.
3. Rabindra-Viksha 53.
4. Monograph on Tagore's thoughts on Education (series of lectures on Rabindranath's Thoughts on Education).
5. Gitanjali: Song Offerings (Bilingual Edition).
6. Diary of Rabindra-Bhavana for 2013.
7. Genealogy of Tagore family for sales counter.

Sales for Rabindra-Bhavana Publications for the year 2012-13: Rs. 6, 75,045.00

Designing New Course/Curriculum or any other teaching innovations introduced by the department: Special attempt has been undertaken to re-structure text book of Tagore Studies.

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development: For History see Introduction.

Future Plans:

The primary objective of Rabindra-Bhavana is to set up a full-fledged Research Centre on Rabindranath in particular and other pioneers of 19th century Bengal in general. As such, several Research schemes are going to be introduced shortly:

- a) Rabindrasangit Gabeshana Kendra with Hon'ble Vice-Chancellor as Chairman.
- b) Natyacharcha Kendra
- c) Translation Project-
Scholars will be invited to translate Tagore in major Indian languages. Simultaneously a sincere attempt to outstretch Tagore throughout the globe through translation will also be undertaken.
- d) Research and publication will be geared up.
- e) As there is dearth of space in the present renovated museum, extension of museum in the ground floor will be our next cherished target.
- f) Rathindra-Museum will come up in 'Guhaghar'- Rathindranath's house shortly.

Any other relevant information:

Special Gifts received by Rabindra-Bhavana:

Rabindra-Bhavana is indeed fortunate to receive a host of special gifts from various quarters:

- a) Tagore memorabilia and items pertaining to Tagore-Victoria Ocampo relationship were received by Rabindra-Bhavana through courtesy Professor S.P.Ganguly, former Professor, Jawaharlal Nehru University, Delhi.
- b) Books and personal items related to Tagore-Annadashankar Roy relationship were donated to Rabindra-Bhavana by Sri Anandarup Roy, son of Annadashankar Roy.

- c) Sm. Srila Chatterjee donated a few items related to Tagore-Khitish Roy relationship.
- d) Sm. Jayita Chakraborty donated a few personal items of Rathindranath Tagore, preserved under her custody.

Academic appraisal of Professor Tapati Mukhopadhyay, Diector, Culture & Cultural Relations and Adhyaksha, Rabindra-Bhavana.

Publications:

Books:

1. Edited with Dr. Amrit Sen Gitanjali a bi-lingual version, Rabindra-Bhavana, Visva-Bharati, 2012.
2. Edited 'Rabindranather Sikshachinta, Rabindra-Bhavana, Visva-Bharati, 2012.

Journal:

Edited Rabindrakiksha (Vol. 52 and 53), Rabindra-Bhavana, Visva-Bharati.

Published articles:

- b) Gitanjali O Poetry: ekti nibir path in Amitrasudan Bhattacharya ed. Visva-Bharati Patrika, Sravan-Asvin, 1419.
- c) Brahmodharma - anusrita upasanamantra O Thakur barir anubadaktreyi: in Tapati Mukhopadhyay ed 'Rabindrakiksha' Vol. 52, Rabindra-Bhavana, Visva-Bharati, 2012.
- d) 'Rabindranather Dakghar Satabarser Aloke' in Tapati Mukhopadhyay ed Rabindrakiksha, Vol. 53, Rabindra-Bhavana, Visva-Bharati, 2012.

Presentations in Seminars/Workshop/Lectures delivered in Summer School/Refresher Course:

1. Presented a paper on Relevance of ancient Indian value system and ethical principles in contemporary global scenario, in a seminar organized by North American Society at Ashutosh Memorial Hall, Kolkata on May 24, 2012.
2. Two lectures delivered in Summer School organized by Department of Sanskrit, Calcutta University on July 12, 2012.

Topic:

- I) Centenary Year of Song offerings
 - II) Environmental thoughts of Rabindranath Tagore.
1. Delivered a lecture on 'Indian aesthetics' in an Orientation Programme, organized by Indian Museum at Indian Museum, Kolkata on July 13, 2012.
 2. Delivered a speech as Chief Guest in an International seminar, jointly organized by Korean artists for India and Visva-Bharati on Mythology, Mysticism, and Spirituality in Korean and Indian Culture on July 19, 2012.
 3. Delivered a commemorative lecture on Rabindranath, Jagadish Bose and Prasanta Mahalanobis in a seminar, organized jointly by Bose Institute and Visva-Bharati on July 28, 2012.
 4. Delivered a lecture in the inaugural session of a workshop on 'Conservation of Manuscripts' jointly organized by National Manuscript Mission and Rabindra-Bhavana, Visva-Bharati on September 9, 2012.
 5. Delivered inaugural speech in a seminar on 'Challenges of livelihood and inclusive Rural Development in the era of globalization' organized by Department of Economics, Visva-Bharati on November 23, 2012.
 6. Presented a paper on 'Global response towards conferment of Nobel on Tagore: a case study with special reference to Chinese context', in a seminar, organized by department of Chinese, JNU, Delhi and Visva-Bharati on December 19, 2012.
 7. Presented a paper: Gitanjali: a translation or a re-creation, in the plenary session of an International Conference, organized by Comparative Literature Association of India at Jadavpur University on January 16, 2013.
 8. Presented a paper "Gitanjali nana anubadey" in a national seminar organized by Rabindra-Bhavana, Visva-Bharati on February 3, 2013.
 9. Speech delivered in valedictory session of a national seminar on 'Rabindranath and Folkloristics' on February 15, 2013.
 10. Delivered a speech in a national seminar on 'Gender and Sexuality: the Indian self and its Forgotten Double: Reading Rabindranath,' organized by Department of English, Visva-Bharati on February 18, 2013.

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11. Delivered inaugural speech in a seminar on "Swami Vivekananda and our society", organized by Economics and Politics Department, Visva-Bharati on February 23, 2013.
12. Delivered inaugural speech on 'Impact of Gitanjali on regional literatures in India' in a seminar organized by Department of Oriya, Visva-Bharati on March 1, 2013.
13. Chaired a session in a seminar on "Bangla Sahitye Prantajan," organized by Bangla Department, Rabindrabharati University, Kolkata on March 5, 2013.
14. Delivered key-note address on "Impact of Rabindranath on Indian literature" in a seminar organized by Assamese, Marathi and Tamil language Units, Visva-Bharati on March 7, 2013.
15. Delivered inaugural address in a seminar on "Women in ancient texts," organized by Department of Women's Studies, Visva-Bharati on March 8, 2013.
16. Delivered valedictory speech in a seminar on 'Philosophical and gnostic verses in Sanskrit texts," organized by Department of Sanskrit, Visva-Bharati on March 9, 2013.
17. Presented a paper on "unravelling a noble soul: Tagore's letters to Nirmalkumari Mahalanabis" in an International seminar on 'Rabindranath: A man of epistles", organized by Rabindra-Bhavana on March 14, 2013.
18. Delivered a speech as Chief Guest in a seminar on "Prospective scope of Buddhist Studies", organized by Indo-Tibetan Studies Department, Visva-Bharati on March 23, 2013.

Udaya Narayana Singh

(April 2012-March 2013)

Publications:

Books:

1. 2012a. Esecho eso raat (A Collection of Poems in Bangla). Kolkata: Pratham Path.
2. 2012b. Dhvase Jaay Shaanti Stup (Translated from Maithili into Bangla; Keertinarayan Mishra's poems); Kolkata: Sahitya Akademi.
3. 2012c. Kabitar Bhasha. (An anthology of Bangla essays) Ed with Anjan Sen; Kolkata: Bangiya Sahitya Sansad.
4. 2012d. Rabindranath Thakur (An anthology of Bangla essays); Ed with Nadveep Suri. New Delhi: Public Diplomacy Division, MEA.
5. 2012e. English Language Education in South Asia: From Politics to Pedagogy. Eds with Lesley Farrell & Ram Ashish Giri. New Delhi: Cambridge University Press, Foundation Books Series.
6. 2013. Bhut-Chaturdashi (A collection of Stories in Bangla). Kolkata: Karigar.

Essays/Articles:

1. 2012a. 'Epilogue'. In English Language Education in South Asia: From Politics to Pedagogy. Eds with Lesley Farrell & Ram Ashish Giri. New Delhi: Cambridge University Press, Foundation Books Series. 258-72.
2. 2012b. 'U-Topos & Tagore: Inaugural Talk' in Konrad Meisig, ed. Utopias from Asia: An International and Interdisciplinary Symposium in Santiniketan on the occasion of the 150th Birthday Anniversary of Rabindranath Tagore (An Asian Impact Activity In Memorium of Momoyo Okura). Weisbaden: Harrassowitz Verlag. Xvii-xxvi.
5. 2012c. 'The post-colonial and the post-modern, Or the rise of Bilingual writers and writings in India', In Shivaram Padikkal & Tarique Khan, eds. Vaagartha: Festschrift for Padmakar Dadegaonkar; Centre for Applied Linguistics & Translation Studies, University of Hyderabad. 118-139.
6. 2013a. Tagore redrawing the Boundaries: In other words, crossing the limits of language. In Sanjukta Dasgupta & Chinmoy Guha, eds. Tagore: At Home in the World, New Delhi: Sage. 3-12.
7. 2013b. 'Mukhabandha,' In Somdatta Mandal & Soma Mukhopadhyay eds. Bharatiya Ingreji Kabita, Kolkata: Abhijan Publishers. 11-13.
8. 2013c. 'Bhasha nay, bhabi beshi jaruri'. In Rabibaroyari, Kolkata: Ei Samay, Times of India publication; 116.

Seminar Presentations

1. 2012. Had-Anhad; Lecture and Readings, Samanvay Indian Languages Festival with special focus on Boli, Bani, Bhasha; India Habitat Centre, New Delhi; November 2-4.
2. 2012. Panel Lecture on Relevance of Tagore today. Centenary Celebrations of Award of Nobel Prize of Rabindranath Tagore, organized by Visva-Bharati, Santiniketan, and Institute of Chinese Studies, Delhi, in India, and Peking University and Shenzhen University in China; Santiniketan; November 19.
3. 2012. Keynote address: Importance of Inter-exchange between languages in Literature. Melbandhan Festival - Marathi, Gujarati, Hindi and Bengali; Banga Sahitya Sammelan, Mumbai, November 25.
4. 2013. Kulturgebiet: India as a Cultural Area. International Seminar on Cultural Unity of India, Ramakrishna Mission Institute of Culture, Kolkata January 16-19.
5. 2013. Presidential Remarks, CLAI Jadavpur University, Kolkata. Jan 17.
6. 2013. 'Language of Literature'; 'Hindi-English Bhai-Bhai' and 'Maithili'. Jaipur Literary Festival, Jaipur; January 24-28.
7. 2013. Comments on The Rabindranath Lecture, 2012-13 by Dr. Tapan Raychaudhuri, Padma Bhushan, organized by the Happenings, Satyajit Ray Auditorium, ICCR, Kolkata; 5th February.
8. 2013. 'Crisis of literature'. Presidential remarks, Prabodh Sahitya Sanman Conferment Ceremony; Sahrda, Feb 18.
9. 2013. Presidential Remarks on Curriculum and Its Objectives. National Seminar on Tagore's Patha Bhavana: Experiments in Education; Patha Bhavana, Visva-Bharati, Santiniketan; February 21-23.
10. 2013. Metaphors and Roadmaps: Some Stray Thoughts on Translation Studies. Silver jubilee Lecture, CALTS, University of Hyderabad; March 7.
11. 2013. Keynote address: Challenges of Language and Literary Development. National Seminar on One Language, Many Scripts. Sahitya Akademi, Goa; March 9-10.
12. 2013. Semiotics of Belles Lettres & Tagore'. International Seminar on Tagore: The Man of Letters, Visva-Bharati, Santiniketan. March 14-15.
13. 2013. 'Boli Khari Bazar me' & Readings. Patna Literary Festival; March 24-25.
14. 2013. Keynote address: Cultural Unity of India and Dr Rajendra Prasad. Rajendra Prasad Memorial Lecture on the occasion of Golden Jubilee Celebration of Rajendra Chhatra Bhawan; Vidya Mandir Auditorium, Kolkata; March 31.

Activities and Achievements of Dr. Amrit Sen, Associate Professor Rabindra- Bhavana, Visva-Bharati:

Amrit Sen

(Presently attached to Rabindra Bhavana)

(April 2012-March 2013)

Awards/Projects:

Awarded a Major Research Project on Rabindranath Tagore and Science by the University Grants Commission in March 2013. Total sanction 9.33 lakhs.

Invited as Visiting Professor of English to deliver lectures under the UGC Merged Scheme Grant at the Department of English, Vidyasagar University. 18-21 march 2013.

Seminar Director:

Seminar Director of the One day National Conference on "Tagore, Bose, Mahalanobis - Confluence of Minds", organized jointly by Sir J.C. Bose Trust, Kolkata in collaboration with Patha Chakra, Visva Bharati on 28 July 2012.

Joint Seminar Director of the International Conference on A Man of Letters: Rabindranath Tagore and His Epistles" organized by Rabindra-Bhavana on 14-15 March 2013. Chaired a session at the Seminar.

Publications:

Books

Tapati Mukhopadhyay and Amrit Sen ed. Gitanjali: A Centenary Edition. Kolkata: Rabindra Bhavana Visva-Bharati. 2012-13

Articles

"A Tribute to Sunil Gangopadhyay", Muse India Issue 48, March-April 2013. ISSN 09751815. <http://www.museindia.com/>

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regularcontent.asp?issid=46&id=3788

Never so wholly Stirr's my Mind": Rabindranath and Russiar Chithi", in Rabindranth Revisited: Essays on Tagore. Kolkata: Levant Books, 2012. pp. 74-90.

"Rabindranath, Travel and Tirtha", in Tagore: At Home in the World eds. Sanjukta Dasgupta and Chinmoy Guha. New Delhi: Sage Publications, 2012. pp. 75-96.

Our Bond with the World: Nature in Poetry of Rabindranath Tagore", in Indian Poetry in English: Critical Essays. Ed. Zinia Mitra, PHI Learning Private Ltd, New Delhi, 2012. pp. 92-102. ISBN-978-81-203-4571-3

"Under His Gaze: Rabindranth's Rammohun", in Evolving Bengali Identity at Home and in the World. ed.. Ghosh, Jaya Kolkata: Books Way. 2012. ISBN : 978-93-81672-49-5

"Visve Kabi: Rabindranath's Travel Writings and the Question of Positionality", in Homage to Tagore. Ed. Banibrata Goswami Kalyani: Council for MS Academic, 2012. ISBN 9788192169712

Papers/Lectures:

Presented a paper titled "Mysticism in Tagore and Korean Literature", at the International Conference on "Mythology, Mysticism, Spirituality in Korean and Indian Culture", jointly organized by Dongkuk University, Korea and Dept. of Philosophy and Comparative Religion, Visva-Bharati, July 19, 2012.

Presented a paper titled, "Utopia, Anxiety, Praxis: Confluence of Minds", at the One day National Conference on "Tagore, Bose, Mahalanobis - Confluence of Minds", organized jointly by Sir J.C.Bose Trust, Kolkata in collaboration with Patha Chakra, Visva Bharati on 28 July 2012.

Presented a paper titled "The Rajarshi in Indian History: Tagore and the Idea of Kingship", at the International Conference on "Kingship in Indian History" organized by the Archive India Insitute in New Delhi, 2nd November 2012.

Presented a paper titled, "The Bridge Builder: Tagore and Sri Lanka", at the International Seminar on "Forging Bonds with the world: Tagore and Internationalism", organized by the Department of History, Visva-Bharati on 14-15 January 2013. Invited to deliver a lecture titled, "The Travels of Rabindranath Tagore", at the Jagat Taran Educational society at Allahabad, 5 November 2012.

Participated in the workshop on Translating EV Kurup at Sahitya Akademi Kolkata, 27-28 November 2012.

Delivered two lectures titled, "Lord of all I survey: Defoe and Enclosures" and "A Sense of Empathy: The Animal Question in Coetzee" at the Eight Refresher Course in Comparative Literature organized by the Academic Staff College, University of Burdwan on 26 July 2012.

Delivered two lectures titled, "Metafiction" and "Metafiction in The French Lieutenant's Woman" at the Refresher course in English organized by the Academic Staff College, University of Calcutta on 5 December 2012.

Presented a lecture titled "Tagore and Travel" at the Workshop conducted by Rabindra Bhavana, Visva-Bharati on 17 February 2013.

Chaired a session at the DEC Sponsored national Workshop on Building Bridges: teaching English Literature Through ODL organized by Netaji Subhash Open University on 12-13 February 2013.

Presented a paper titled "The Animal Question: Literature and Animal Studies", at the UGC Sponsored national Seminar on Remapping the English Literary Canon: Language, Society and Culture", organized by the Department of English, Vidyasagar University on 18-19 February 2013. Chaired a session at the Seminar.

Presented a paper titled, "Of Nations and National Anthems: The Case of Rabindranath Tagore" at the National Conference on Assertion of Identities: rereading Texts in literature", organized by Kazi Nazrul Mahavidyalaya, Churulia on 5-6 February 2013.

Presented a paper titled Rabindranath's Travelogues and the Absent female Voice", at the International Seminar on gender and sexuality: The Indian Self and its Forgotten Doubles: reading Rabindranath organized by the Department of English and Omel, Visva-Bharati, 18-19 February 2013.

Invited as visiting professor of English to deliver lectures on Nationalism and Huckleberry Finn under the UGC Merged scheme grant at the Department of English, Vidyasagar University. 18-21 march 2013.

Invited to deliver two special lectures under the UGC Special Lecture Scheme on Tom Jones and New Historicism at Bankura Christian College, Bankura on 22 March 2013.

Performances:

Translated the text of Shapmochan and was the lead narrative voice in the performance of the dance drama at Colombo and Kandy as part of the Sangit-Bhavana team that visited Sri Lanka in 2012.

Participation of staff in different seminars/workshops and presentation of papers:

Pradip Kumar Mandal, Deputy Curator, Rabindra-Bhavana (Museum):

- i) Attended annual general conference on "Technical Upgradation of Exhibition and Museum Communication" at State Museum, Patna, Bihar during 21st to 23rd December, 2012. And jointly presented a paper on "Museum and Communication: Present Scenario of West Bengal".
- ii) Attended 20th West Bengal State Science & Technology Congress - 2013 and Jointly presented a paper on "Gramya Artho-Samagik Jibner Unnayan: Rathindranather Biyan Chetona" at Bengal Engineering and Science University, Shibpur during 28th February to 2nd March, 2013
- iii) Presented a Joint paper on "Example of a Living Museum Administration: An Analytical Study of Rabindra-Bhavana and Santiniketan", at the Seminar organized by West Bengal University of Technology, Salt Lake, Kolkata during 9th & 10th March, 2013
- vi) Presented a Joint paper on "Rathindranath and Rabindra-Bhavana", at the National conference organized on "Rathindranath the Unsung Hero" by Rabindra-Bhavana, Visva-Bharati, 31st March, 2013.

Articles published

- a. "Santiniketan, Heritage & Tourism", Journal of Indian Museums, Vol. LXVI, P. 67, December, 2012, ISSN. 0970-9894.
- b. A joint paper on "Contribution of Three Descendant of Tagore Family Towards Santiniketan, Brahmacharyasrama and Visva-Bharati", Proceedings of UGC Sponsored One National Level Seminar On "The Many Voices of History", Department of History, Horipal Mahavidyalaya, Hoogly, W.B. June, 2012.

Sukumar Das

Professional Assistant, Rabindra-Bhavana Library:

- a) Attended Five-day's workshop on Preventive Conservation of Manuscripts organized by National Manuscript Mission and Rabindra-Bhavana, VB, in 2012.
- b) Presented a paper in Two day's International Conference on 'Rabindranath Tagore: A Man of Letters', titled: 'Chithipatre Rabindra Janmadin Prasanga' during 14-15 March, 2013.

Publications :

- 1) Published an article 'English Gitanjali: Aji Hate Satabarsha Aage' in 'Rabindrabiksha' (53) the Research Journal of Rabindra-Bhavana, Visva-Bharati.

GRANTHANA-VIBHAGA (VISVA-BHARATI)

Maharshi Devendranath Tagore founded 'Santiniketan Asram' in the year 1863. Rabindranath Tagore established the 'Brahmacharyasram' (Asram Vidyalaya) in the year 1901 in the Santiniketan Asram and in the year 1918 Visva-Bharati was born. The Asram was fully spiritual, the vidyalaya was for children's education based on Brahmalaya, and Visva-Bharati aimed at cooperation and exchange between the east and west in humanism and culture. To fulfill the financial need of the Visva-Bharati and publish the works of Gurudev, Visva-Bharati Granthana Vibhaga was established in July 1923. On behalf of Visva-Bharati, Sri Nepalchandra Roy, Sri Surendranath Thakur, Sri Rathindranath Thakur and Sri Prasantachandra Mahalanabis were sent to Sri Chintamani Ghosh, the proprietor of Indian Press, to help and support to establish the Granthana Vibhaga.

Functions, Festivals, Seminar and Workshops for the year 2012-2013

The department celebrated the birth anniversary of Gurudev Rabindranath Tagore on 9 May 2012 at the Conference Hall of Granthana Vibhaga and 6 June 2012 at G. D. Birla Sabhaghar. The department also observed death anniversary of Gurudev Rabindranath Tagore on 7 August 2012 (22 Sravana) offering flowers at Jorasanko 'Thakurbari' and Nimtala Ghat.

The department organized a one-day workshop on 19 June 2012 on 'Uniform spelling and style-sheet for Granthana Vibhaga books : A guide for authors & 3 copy editors'

1. A seminar entitled : 'Granthana Vibhaga : In search of a dialogue between the Readers & the Publisher' was organized by the Granthana Vibhaga on 27 July 2012.
2. A one-day workshop on 'Tagore's plays and their stage productions' was organized by the department on 21 January 2013.
3. A National seminar was organized by Granthana Vibhaga and Jadavpur University jointly on 19 and 20 March 2013 on 'Printing and Publishing of Books : Past and Present' in which there was a special academic session on Granthana Vibhaga
4. Exhibition, Book-fair and Sales Special book exhibition-cum- sale programmes were taken by the department on the following dates : 2 to 11 July 2012 at Granthana-Vibhaga, Kolkata, 5 August 2012 at Burdwan University along with a Literary Forum on Tagore, 6 to 21 August 2012 at Lipika Auditorium, Santiniketan.

The department attended the following Book-fairs during this year :

1. 18th New Delhi - World Book-fair, 2 to 11 July 2012
2. 28th Jamshedpur Book-fair, 23 November to 2 December 2012
3. 16th Kalyani Book-fair, 7 to 16 December 2012
4. 5th Barrackpur Boi Mela, 14 to 25 December 2012
5. Knowledge 2012, Rani Birla Girls' College Book-fair, 17 and 18 December 2012
6. Singur Boi Mela, 15 to 23 December 2012
7. Santiniketan Pous Mela, 23 to 26 December 2012
8. Dum-Dum Book-fair, 11 to 20 January 2013
9. 37th Kolkata International Book-fair, 25 January to 10 February 2013

Sales

To reach the ideals, thoughts, literature and extension education programmes of Gurudev Rabindranath Tagore to the common people of the country as well as the whole world, the department took the initiative to sell books with a special discount of 50% on various occasions. Specially in the month of May 2012 the department offered special discounts to the agents, book-sellers, staff and students and also the general readers. In Kolkata the department has 5 agents, in districts 10 agents and one abroad.

Publication

During the period of 1 April 2012 to 31 March 2013, 51 books consisting of following 4 new titles were published.

New Titles

1. RabindraRachanabali (rexin) Suchi
2. Letters - vol.1 - in English translation
3. SardhaSatabarshe Rabindranath, BangladeserSraddhanjali : a collection of articles
4. Rabindra Rachanabali (rexin) vol.32

Visva-BharatiPatrika, Sravana-Aswin 1419 and Kartik-Poush 1419 were also published.

The department has two running sales counters : one is situated at College Square, Kolkata and one at Santiniketan. Besides these the department sells books from the ground floor of the office building at 6 AJC Bose Road, Kolkata.

GranthanaVibhaga has decided to offer 30% discount to all employees and students of Visva-Bharati throughout the year.

OFFICIAL LANGUAGE CELL (RAJBHASHA)

To implement the Official Language Policy of the Government of India in Visva-Bharati, the Rajbhasha Cell was established in March, 1993.

The Rajbhasha Cell has two broad programmes, viz

1. Implementation Programme
2. Training Programme

1. Implementation Programme

It is the administrative part of the Cell. The Rules and Regulations relating to implementation of the Official Language (Rajbhasha) Policy issued by the Govt. of India from time to time are implemented as prescribed for Region "C" to which Visva-Bharati belongs.

2. Training Programme

The first programme of implementation policy of the Govt. of India is the compulsory training in Rajbhasha Hindi to all the Non Hindi speaking staff from grade D onwards for acquiring working knowledge in Hindi. Visva-Bharati has also introduced such programme since July, 1994. Visva-Bharati has a full time Centre for pursuing training in Rajbhasha Hindi in the locality. Visva-Bharati has also incorporated the staff-members of the Central Govt. Organisations located at Bolpur to pursue training in Rajbhasha Hindi for acquiring working knowledge in Hindi from July-December, 2001. Since 2006 Visva-Bharati has also extended the facilities to the Central Govt. Organisations located at the District Headquarters at Suri to pursue training in Rajbhasha Hindi for acquiring working knowledge in Hindi to its staff-members.

Activities.

- i. Under the training programme 66 Staff-members and 2 outsiders have completed the prescribed courses of Hindi Teaching Scheme Govt. of India conducted by Visva-Bharati, Santiniketan Centre during the year 2012-13.
- ii. One day Rajbhasha Hindi Divas Samaroh-2012 was organized in Visva-Bharati on 30th September, 2012 in the Hindi Bhavana Parisar.
- iii. Rajbhasha Cell conducted TOLIC Meeting held on 19th January, 2013 at Central Administrative Building Conference Hall, Visva-Bharati. The Vice-Chancellor presided over the meeting.
- iv. The Rajbhasha Cell, Visva-Bharati hosted the 65th Convention of Hindi SahityaSammelan - Prayag, Allahabad organized at Lipika Auditorium, Santiniketan from 16th March to 18th March, 2013

INDIRA GANDHI CENTRE

Departmental Seminar :- Indira Gandhi Centre has organized the following seminars, programmes

18.8.12 Hrida Manisha:- It was a film show to elaborate the Tagore and the nature of his philosophy

31.8.12 A Cultural Programme on "Patriotic songs in Different Indian Languages"

29.9.12 A Seminar cum Cultural Programme was organized on the issue "Evaluation of Bengali Songs".

12.3.13 A Seminar was organized on "Swami Vivekananda and 21st century"

Indira Gandhi Centre assisted to conduct a seminar "Position of Women in Hindu Texts" on Women's Day, 2012.

Indira Gandhi Centre assisted CJMC , VB to conduct UGC sponsored National Seminar on "Media Ethics: Reality or Myth on 15th - 156th March, 2013.

On Going Research Project

Name of the Project (1) :- Tribe, Main Stream and National Integration : Context India. Funding Agency :- Visva-Bharati (Partial Research Grant Scheme).

AGRO-ECONOMIC RESEARCH CENTRE

A brief history on the development of the Bhavana/Sadana/Vibhaga concerned with an indication of the future plans for development:

The agricultural sector constituted the most dominating sector of Indian economy. From the very beginning of the planning process, the policy makers and planners in India have given high priority to this sector. For successful implementation of various schemes and programmes, it was felt that region specific problems related to agriculture and allied sector need to be studied for having appropriate feedback from the grass-root level.

In 1953 when the ministry of Food and Agriculture, Government of India was planning to expand the facilities for agricultural economics research in the country through the establishment of four regional research centres. Sri Rathindra Nath Tagore, the then Vice-Chancellor of Visva-Bharati University submitted a proposal that one of the centres be established at Visva-Bharati to enable it to continue and extend the work it has been doing in this field. The then the Ministry of Food and Agriculture accepted this proposal and approved of the establishment of the Agro-Economic Research Centre for East India under Visva-Bharati University. Thus the Agro-Economic Research Centre for East India started functioning at Visva-Bharati, Santiniketan from July 1, 1954. At this time, three more Centres were established at Delhi, Pune and Madras to cover the country as a whole. There are 15 Agro-Economic Research Centres/units today covering all parts of the country all of which are sponsored by the Ministry of Agriculture.

The Agro-Economic Research Centre for East India was established by the Ministry on July 1, 1954 at Visva-Bharati in tune with the University's long tradition of research in agricultural economics centering around the rural reconstruction programme of Gurudev Rabindranath Tagore at Sriniketan. Since its inception, the centre has been functioning within the Visva-Bharati University, its affairs being governed and managed by the University. The centre is financed by annual grants-in-aid from the Ministry of Agriculture, Government of India, New Delhi.

The main planks of activities of the centre initially included conducting village surveys, studies, investigations of the fundamental problems being experienced in an agricultural economy and rural development as also to provide technical advice to the central as well as state governments on the issues referred to by them. Since its inception the centre had been working on research problems suggested by the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India, the focus of research being shifted from continuous village studies to specific policy-oriented studies which are of particular interest to the Ministry of Agriculture, Government of India.

With the passage of time, area of operation has undergone changes. At the time of inception, the Centre had a jurisdiction covering the states of Assam, Bihar, Orissa and West Bengal. The area was too large and with limited resources at the command of the centre, it was hardly possible to do proper justice to the problems in the individual states. With the opening of new centres at various places, at present, the centre has been operating in an area which comprises of West Bengal, Sikkim, and Andaman and Nicobar Islands.

The centre over its long life span of more than 59 years has done a lot of research activities and thus provided useful services to the nation and to the cause of academic upliftment of the university. By the year 2012-13, this Centre has completed 179 studies covering a wide spectrum of subjects pertaining to agricultural growth and development which inter-alia include employment, water resources, credit, small and marginal farmers, marketing, seeds, fertiliser, horticulture, rainfed farming, co-operation, land use, subsidies, regional planning, NGOs, food economics, fisheries, agro-rural industries etc.

As per the terms and conditions, the centre had been working on research problems suggested by the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India. The Ministry of Agriculture has accorded permanent status to the centre in 1990 and then with a view to integrating the centre with the university, the ministry had decided to enter into a Memorandum of Understanding between the Union of India and the University. Therefore a Memorandum of Understanding was signed between the Union of India and Visva-Bharati University. Consequent upon

the signing of MOU, the university formally issued notification regarding the integration of the centre with the university, and now the A.E.R.C, Visva-Bharati stands integrated with Visva-Bharati University.

Any other relevant information, which in the opinion of the Head of the Department is worth-reporting should be included: Nil.

Departmental Seminar :

- The Centre has organised 3-day Training Meeting Cum Workshop on "Diversified Cropping Programme under Dryland/Rainfed Condition" for the state Extension Officers and KPS in collaboration with Directorate of Agriculture, Government of West Bengal on 13th-15th December, 2012.

National and International standard Conference/Seminar/Workshop/Exhibition etc.:

- Dr. Debashis Sarkar, Director delivered a key paper in the UGC sponsored National Seminar on "Climate Change and Sustainable Agriculture Causes, Consequences and Mitigating Measures" held at the Dept. of Economics, P.B.S. College, Banka, Bihar on 13th-14th July, 2012.
- Participated in the Zonal Conference on "Agricultural Inputs at National Co-operative Union of India" held at New Delhi on 13th-14th September, 2012.
- Attended in the Annual Conference of Indian Society of Agricultural Economics held at Benaras Hindu University, Varanasi on 11th-19th November, 2012.
- Presented a paper in the National Seminar on "Women and Development: A Gender Sensitive Analysis in West Bengal" held at the Dept. of Economics & Politics, Visva-Bharati on 23rd November, 2012.
- Presented a paper entitled "Modernization of Rice Mills vis-a-vis Efficiency: A Case Study in West Bengal" in the Seminar on "Agribusiness Potential of West Bengal" organised by the "Indian Society of Agricultural Marketing" held at Kolkata on 8th-9th January, 2013.
- Attended as Resource Person and delivered speech on "Food Security in India: Performances and Challenges" in the National Seminar on "Food Security in India: Challenges ahead in the Era of Globalization" held at Asansol Engineering College, Asansol on 21st-22nd January, 2013.
- Attended in the Zonal Conference on "Agricultural Inputs" held at Lecture Hall, 2nd Floor, NAAS Building, Indian Council of Agricultural Research (ICAR), NASC Complex, DPS Marg Pusa, New Delhi on 8th-9th February, 2013.

On-going Research Projects in the Department:

Sl. No	Name of the Project	Sponsoring Agency
i.	End-term Evaluation Study/ Appraisal in respect of the Implementation of the Bringing Green Revolution to eastern India (BGREI) Programme -Consolidated Study	Crop Division Ministry of Agriculture, Government of India
ii.	Estimation of Pre and Post Harvest Losses among Selected Crops (Coordinator - ISEC, Bangalore)	AER Division Ministry of Agriculture, Government of India
iii.	Base line data on area, production, productivity of horticulture crops in Sikkim (Coordinator - ISEC, Bangalore)	AER Division Ministry of Agriculture, Government of India
iv.	Problems and prospects of oilseeds and oil palm cultivation: potential of bringing it in cost effective manner (Coordinator - IIM, Amedabad)	AER Division Ministry of Agriculture, Government of India

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| v. | Effect of farm mechanization on agricultural growth and comparative economics of labour and machinery.
(Coordinator - IEG, Delhi) | AER Division
Ministry of Agriculture,
Government of India |
| vi. | Spread of new varieties of hybrid rice and their impact on the overall production and productivity in India
(Coordinator - AERC, Visva-Bharati, Santiniketan) | AER Division
Ministry of Agriculture,
Government of India |
| vii. | State Agricultural Profile | AER Division
Ministry of Agriculture,
Government of India |
| viii. | Strengthening and Modernization of Pest Management Approach in India (SMPMA) | Directorate of PPQ&S
Ministry of Agriculture,
Government of India |
| ix. | A Comparative Study of the Methods and Impacts of Employment Guarantee Schemes across Global South: Inclusion of Elite Capture? (based on secondary literature and data) | Brown International Advance Research Institute (BIARI) Alumni Research Grant, Brown University, USA |

Publications within the year April 2012 - March 2013

(i) Monographs:

a) Impact of NREGA on Wage Rates, Food Security and Rural Urban Migration in Sikkim - Dr. J. K. Ghosh New Delhi Publishers, New Delhi (in Press)

(ii) Research Papers:

- Debajit Roy published a paper on "Determinants of Technical Efficiency in Input-use in Agriculture" in International Journal of Social Science, ISSN No.2249-6637, December, 2012
- Dr. Saumya Chakrabarti published a paper with Prof. A. Mukherjee on "National Rural Employment Guarantee Scheme of India: Some Conceptual Problems" in International Critical Thought, Chinese Academy of Social Science and Routledge, UK, Volume 3, Issue 1 pp. 1-19/DOI: 10.1080/21598282.2013.761441, March, 2013

SC/ST (SCHEDULED CASTE/SCHEDULED TRIBE) CELL

Visva-Bharati has set up a Special Cell for SC & ST in 1983 and it has the following activities:

The Special Cell for SC & ST has been set up by Visva-Bharati to look after the implementation of reservation policy in respect of student admission, recruitment of Teaching and Non-teaching staff, promotion of Non-teaching staff, Hostel accommodation and quarter allotment. Accounts Officer is acting as the In-charge of the Cell and he is assisted by one Section Officer, one Personal Assistant (Level-B), one Senior Assistant, one Office Assistant and one Peon. Now, this Cell is functioning as SC/ST/OBC Cell.

Prof. V.C. Joy, Zoology Department, Siksha-Bhavana, Visva-Bharati has been appointed as Liaison Officer (SC) and Prof. N.C. Mondal, P.S.B. has been appointed as Liaison Officer (OBC) to look after the activities of the OBC.

Apart from this, a Standing Advisory Committee on SC/ST has been constituted by the Upacharya to review and monitor the implementation of reservation policies in respect of the employees (Teaching and Non-teaching) recruitment and other matters and Students' Admission. Moreover, a Three Member Committee has also been constituted to observe the proper implementation of reservation policy in respect of admission for SCs and STs and OBC students in different Academic Departments/Schools.

The SC/ST Cell is maintaining the reservation roster of SC/ST/OBC and Persons with Disabilities in direct recruitment of Teaching and Non-teaching posts and in promotion of Non-teaching posts. The UGC Guidelines/Circular regarding reservation in admission and other related matters are circulated to the Bhavanas / Departments from time to time for necessary action. All the letters, circulars, guidelines etc. relating to the implementation of reservations are also communicated to the Establishment Section for necessary action.

The Scheme of 'Remedial Coaching', 'Coaching for NET' and 'Coaching for Entry into Services' at UG & PG level was introduced for SC/ST/OBC and Minority students of the University as instructed by the UGC under General Development Assistant grant during XI Plan Merge Scheme and students of these communities are benefited.

The SC/ST Cell regularly collects Statistical Data and compiles for onward transmission to the UGC/MHRD/National Commission in the prescribed format from time to time. The replies to the Lok Sabha/Rajya Sabha questions and other organizations are being sent regularly to the concerned offices/organizations by the Cell.

Any complaint/grievance lodged by the SC/ST students or employees are timely looked into and brought to the notice of the higher authority for its appropriate redressal.

CENTRAL LIBRARY

Library Automation:

Visva-Bharati Library has connected with the Campus wide Fiber Optic Network named GitanjaliNet (INFLIBNET). Library has 92 PCs, 39 printers, two copiers, one document camera, one LCD Projector, etc. for its Central Library and 12 Sectional Libraries. Library offers services and facilities of browsing e-journals, e-databases, e-books, to its users procured by the library. On-line searching, e-mail facilities for academic and research purposes, etc. have also been provided by the library. Library Management Software LibSys-7 (Unicode Web compliant) is being used for automating the library activity and services. All daily library operations and services i.e. Acquisition of library documents, Cataloguing, Serial control, Circulation, OPAC, etc. are going on smoothly by using this Library Management Software. Library catalogue database covering almost total holdings of Central Library and other Sectional Libraries are accessible now on Intranet throughout campus network (172.16.2.2) and the full library catalogue database will be available on Web very soon with the help of Computer Centre, Visva-Bharati. Presently, Visva-Bharati Library catalogue database holds 523003 titles of documents containing 641692 individual accession numbers including 43334 bound volumes of journals and 1591 theses. Number of 'Current Periodicals-2012' contains 294 titles. In addition, 3836 titles of purchased E-books and 84075 titles of subscribed E-books have been procured by the library from the world famous publishers/aggregators (Elsevier, Cambridge Online, Springer, Sage, Tailor & Francis, Oxford University Press and British Council Library) which have been linked with the library web page for browsing the e-books throughout the campus. The Visva-Bharati Library invites its faculties and research scholar's to upload their publications in Library Repository and encourages the users' to browse Open Access Resources through its library homepage.

Library Digitization:

Under the 'Mega Digital Library project of India', first & second phase, Central Library has completed scanning and digitizing work of 11362 titles of old documents of the Library containing 51 lakhs pages. Till now we have received 240 DVDs and metadata of that digitized documents are being made and available on library web page through the Campus network. The uploading of the digitized content in the storage server is under process. The work of digitization has not yet been continued by the CDAC, Kolkata since June 2012 as there were no more funds for the purpose. CDAC, Kolkata have returned back all equipments from Central Library as installed by them.

Central Library has made an Institutional Repository on Syllabus under different Course-curriculum of Visva-Bharati. The question papers of different Examinations held at Visva-Bharati since 2005 onwards are also added to this Institutional Repository. These Question Papers / Syllabus can be accessed, downloaded and/or printed over the Campus Network through Central Library web page. The Library Repository now contains near about 110 articles of faculties and other members. This Institutional Repository is being regularly used by the library members.

The library has the following e-resources, which are regularly browsed through Central Library Home Page (<http://14.139.211.2>) (172.16.2.2).

E-Resources: -

● E-journals through UGC InfoNet Consortia (INFLIBNET)	-	8473
● E-journal through MHRD	-	241
● Free e-journals from publishers	-	1050 +
● On-line e-journals on subscription basis	-	82 +
● E-Books Purchased (Perpetual) & Subscription	-	87911
● Subscribed e-journals through J-Gate	-	32,130 +
● Free online books	-	869 +
● DVDs of Old Digitized Documents of Central Library	-	240
● CD-ROMs	-	620 +

Data bases access facilities:-

- American Library, Kolkata
- British Council Library, Kolkata
- Cambridge Online
- DELNET, New Delhi
- Elsevier Science
- IEEE
- India Stat.Com
- J-Gate
- Oxford University Press
- SAGE e-Reference
- Sage Research Method Online (SRMO)
- Springer
- Taylor and Francis

Seminar / Workshop / Exhibition / other programs organized by and at Central Library, Visva-Bharati :

- i) On the occasion of Centenary Celebration of the drama DAKGHAR and formal announcement of the Brail Library Services of the Central Library, Visva-Bharati the drama DAKGHAR was being staged by Blind Persons' Association, Kolkata on March 04, 2013 at LIPIKA Auditorium at 6pm.
- ii) Ten 'Users Learning Programmes' arranged on 'How to use Library Resources' for new library members of different departments on July 20, August 03, 13, September 03, 07, 14, 15, 21, October 13, 2012. Total 467 students and 08 faculty members of Patha Bhavana (Students of Library and Information Science as Vocational subject), CJMC, Silpa Sadana, Bio Technology, Sanskrit Pali and Prakrit, Computer System and Science, Zoology, Physical Education, and Bengali have attended the Programme.
- iii) Demonstration Programme on ILIB Digital Library software as developed by Somnetics, Kolkata on September 28, 2012 organized by the Central Library at Gitanjali Net and total 08 Library Officers attended the programme.
- iv) Demonstration Programme on Fire Management was organized jointly by the Central Library Visva-Bharati and Ultra Marketing (Fire People) on February 18, 2013 and total 33 Library staff attended the programme from Central Library and Sectional Libraries.
- v) Library Day observed on December 20, 2012.
- vi) A team of 15 students and 1 faculty of the Department of Library and Information Science, Burdwan University have Visited Central Library, Visva-Bharati on their educational tour on March 02, 2013.
- vii) A team of 29 members consisting of students and teachers of the Department of Library and Information Science, Kumaun University, Nainital, Uttarakhand have visited Central Library, Visva-Bharati on February 21, 2013.
- viii) A team of 40 members consisting of teachers, students and attendants of the Geography Department of Vidyasagar College for Women, Kolkata, has visited this library on January 14, 2013.
- ix) A team of 61 students of the Department of Library and Information Science, Calcutta University, Kolkata have visited Central Library, Visva-Bharati on December 30, 2012.
- x) A team of 53 members consisting of Library Secretary, Attendant, and students and of the PBS-Text Book Library, Jambedia, Bankura have visited this library on September 28, 2012.

Conference/ Seminar/ Workshop/ Invited Lecture etc. attended by the Library staff:**Nimai Chand Saha**

- i) Participated and presented a paper entitled 'Rural Development in the 21st Century: Is it open to the communities?' in the two-day National Seminar on "Changing Rural Scenario in the New Millennium" organized by Dept. of Palli Charcha Kendra (PCK), Visva-Bharati, Sriniketan and held at Sriniketan Community Hall on March 22-23, 2013

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- ii) Participated and presented a paper entitled 'Balancing the Demand and Supply of Library Services in the 21st Century: A Challenge' in the one-day National Workshop on "Changing paradigm of Library Services" organized by Dept. of Library and Information Science and held at Conference Hall, University of North Bengal on March 15, 2013
- iii) Acted as a member of the organizing committee in the one day National Workshop on "National e-Governance Plan (NeGP)" held at Lipika Auditorium, Visva-Bharati, Santiniketan on December 03, 2012 organized by Computer Centre, Visva-Bharati, Santiniketan and sponsored by Dept of Electronics and IT Ministry of Communications & IT, Government of India.

Kanika Debnath

- i) Attended the National workshop on Preventive Conservation of Manuscripts, organized by the National Mission for manuscripts, New Delhi in collaboration with Rabindra-Bhavana, Visva-Bharati from 9th to 13th September, 2012. This programme has been co-ordinated by the Calcutta University manuscript conservation centre.
- ii) Participated in the National Seminar on "Changing Rural Scenario in the New Millennium" organized by Department of P.C.K. (Social Studies and Rural Development), Visva-Bharati, Sriniketan on 22/3/2013 and 23/3/2013.

Tapas Kumar Das

- i) Participated to the UGC-Sponsored 43rd Orientation Programme (OP) held during 04th February to 04th March, 2013 at Jadavpur University, Salt Lake Campus, Kolkata.

Ajay Kumar Sharma

- i) Participated in "National eGovernance Workshop (NeGP)", Organized by Computer Centre, Visva-Bharati, Santiniketan at Lipika, Visva-Bharati, Santiniketan on 3rd December 2012.
- ii) Participated in "E-Content 2012: National Seminar on Convergence of Content and Technology in Digital Age", Organized by Informatics (India) Limited held at Hotel Hyatt Regency, Kolkata on October 18, 2012.

Sabahat Nausheen

- i) Participated in the four day UGC sponsored Workshop on "Application of Statistical software in Information Studies" organized by the Dept of library and Information Science, Jadavpur University and UGC Academic staff College, JU held during 25-28 February 2013.
- ii) Presented an article "Changing Form and Future of Libraries: The Role of Library and Information Service Professionals in the 21st Century" in the National Seminar "Changing paradigm of Library services" organized by Dept of Library and information Science, North Bengal University, Darjeeling held on 15th March 2013.

Sujit Kujur

- i) Participated in "National eGovernance Workshop (NeGP)", organized by Computer Centre, Visva-Bharati, Santiniketan at Lipika, Visva-Bharati, Santiniketan on 3rd December 2012.
- ii) Participated in e-content 2012: National Seminar on Convergence of content and technology in digital age", organized by Informatics (India) Limited held at Hotel Hyatt Regency, Kolkata on October 18, 2012.

Sanat Bhattacharya

- i) Attended the National workshop on Preventive Conservation of Manuscripts, organized by the National Mission for manuscripts, New Delhi in collaboration with Rabindra-Bhavana, Visva-Bharati from 9th to 13th September, 2012. This programme has been co-ordinated by the Calcutta University manuscript conservation centre.

Smritimoy Ghosh

- i) Attended National Level Workshop on Preventive Conservation of Manuscripts 9-13th September, 2012 Organized by National Mission for Manuscript and Rabindra-Bhavana, Visva-Bharati.

Sectional Library

Keshab Chandra Sinha

- i) Participated to the UGC-Sponsored Refresher Course (RC) held during August 22 - September 11, 2012 at Jadavpur University, Salt Lake Campus, Kolkata.

- ii) Participated and presented a paper in the two-day National Seminar on "Changing Rural Scenario in the New Millennium" organized by Dept. of Palli Charcha Kendra (PCK), Visva-Bharati, Sriniketan and held at Sriniketan Community Hall on March 22-23, 2013

Publications

Nimai Chand Saha

Book :International Level

1. Saha, Nimai Chand (2013). HRM Aspects for Application of ICTs in the University Libraries: Preview from West Bengal, India. Germany: Lap Lambert Academic Publishing GmbH & Co. KG. [ISBN - 978-3-8473-3106-3].
2. Saha, Nimai Chand; Das, Mrinal Kanti (2013). Studies of University Library Users of the Professional Faculties. Germany: Lap Lambert Academic Publishing GmbH & Co. KG. [ISBN - 978-3-659-33817-5].
3. Saha, Nimai Chand; Pal, Nirmalendu (2013). Comparative Study of College Library Services in the Digital Age. Germany: Lap Lambert Academic Publishing GmbH & Co. KG. [ISBN - 978-3-659-34394-0].
4. Saha, Nimai Chand; (2013). Present Status of Public Libraries of Ambika Kalna, Burdwan: A Study. Germany: Lap Lambert Academic Publishing GmbH & Co. KG. [ISBN - 978-3-659-34875-4].

Article in International / National Peer Reviewed Journal:

International Level

1. Saha, Nimai Chand; Sinha, Keshab Chandra (2012). Rural Libraries in Support Reconstruction: Tagores' Thinking and Reality. In Library Philosophy and Practice (e-journal), available at <http://digitalcommons.unl.edu/libphilprac/867> paper 867.

National Level

1. Saha, Nimai Chand; and Mondal, Arup Kumar: Job satisfaction of University Library professionals in the tech-based society, with special reference to Burdwan University Library, West Bengal: Case study. In INFOLIB, 5(1-2), January - April 2012. P. 10-14 (Published in December 2012).
2. Saha, Nimai Chand; Biswas, Subal Chandra; and Das, Subarna Kumar: Managing conflict in the university libraries relating to ICTs application: preview from practical experience. In LIBRARIAN, 18 March 2011. P.72-84 (Published in June 2012).

Conference Proceedings:

1. Saha, Nimai Chand: "In-house training programme for the Skill enhancement of library professionals in the present era: case study of Central Library, Visva-Bharati University, Santiniketan" in the post conference proceedings (published on May 2012) of 14th National Convention NAELIN-2011 jointly organized by the DELNET New Delhi and Visva-Bharati Library System, Santiniketan held during 15-17, November 2011, p.416-421 (published in May 2012).

Tapas Kumar Das

Conference Proceedings:

- i) Das, Tapas Kumar. Digitization as means of digital preservation for securing the future of information: an insight view of the Visva-Bharati Library. In the Proceedings of the International Conference on Trends in Knowledge and Information Dynamics organized by DRTC, ISI held during July 10-13, 2012 at ISI, Bangalore, 815-832p.
- ii) Das, Tapas Kumar. Exponential Growth and Development of Public Library System in India: with Special Reference to West Bengal. In the Proceedings of the National Conference on Beyond Librarianship: Search for New Frontier (NCBLSNF 2012), organized by Goutam Buddha University held during September 21-22, 2012 at Greater Noida (Delhi NCR) Uttar Pradesh, 102-111p.

Ajay Kumar Sharma

Journal Article:

- i) Pal, Nirmalendu, Sharma, Ajay Kumar & De, Mrityunjoy (2012); "Digital Library Preservation: Strategies, Issues and Challenges", In Library Progress (International), 32(2), December 2012. Pp.237-246.

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Bulletin:

- i) Library Bulletin - 'Current periodicals-2012' for Visva-Bharati subscribed Journals.

Academic / Administrative Distinctions:-

- i) Associate Editor of the journal entitled as "International Journal of Digital Library Services".
- ii) Webmaster of All Bengal School Librarians' Association (ABSLA).

Ms. Sabahat Nausheen

Conference Proceedings:

- i) Dr. Md. Ziaur Rahman, Dr. Udayan Bhattacharya and Sabahat Nausheen. The Collaborative Role of Information Professionals for Information Management (In Proceedings on National Seminar on Challenges in Library Management System, IACS: Kolkata, February, 24-25: 2012).
- ii) Sabahat Nausheen (et al) "Changing Form and Future of Libraries: The Role of Library and Information Service Professionals in the 21st Century". the National Seminar "Changing paradigm of Library services" organized by Dept of Library and Information Science, North Bengal University, Darjeeling held on 15th March 2013.

Sanat Bhattacharya

Conference Proceedings:

- i) Bhattacharya, Sanat. "Networking and consortia technology" paper published in the proceeding on 29th convention & conference of SIS on "Information-Innovation Technology: creating seamless linkages" from 26-28 November, 2012 organised by NIT Silchar, Assam.

Sectional Library

Keshab Chandra Sinha

1. Saha, Nimai Chand; Sinha, Keshab Chandra (2012). Rural Libraries in Support Reconstruction: Tagores' Thinking and Reality. In Library Philosophy and Practice (e-journal), available at <http://digitalcommons.unl.edu/libphilprac/867> paper 867.

VISVA-BHARATI SPORTS BOARD

JUDO DEMONSTRATION :

Judo Centre opened on 15.03.13 at Visva-Bharati Sports Board.

INTER BHAVANA STAFF TOURNAMENT:

Football:

Total Fourteen team participated in this competition. Palli Siksha Bhavana become winner and Central Administrative Building become Runner-Up.

Volleyball:

First Time Started the Inter Bhavana Staff Volleyball Tournament. Total Fourteen team participated in this competition.

ORGANISED THE CAB&IFA TOURNAMENTS:

- a) Ajay Ghosh Memorial Trophy tournament (Inter-University Cricket in W.B)
- b) Elliot Shield Football (M) tournament (Inter College Football in W.B)

PARTICIPATION INTER UNIVERSITY COMPETITION:

GAME	ORGANISING UNIVERSITY
i) Football (M)	Burdwan University
ii) Cricket (M)	Calcutta University
iii) Basketball (M)	Kalyani University
iv) Kho-Kho (M)	DDU Gorakhpur University
v) Athletics (M)	KalyaniUniversity
vi) Yoga (M&W)	M.K.B University
vii) Table Tennis (M&W)	Calcutta University
viii) Aquatics (M)	Calcutta University
ix) Chess (M)	Jadavpur University
x) Badminton (M&W)	T.M Bhagalpur University
xi) Kabaddi(M)	T.M Bhagalpur University

PARTICIPATION IN VARIOUS OTHER COMPETITION

- i) Ajoy Ghosh Memorial Trophy Tournament
- ii) T-Twenty ,CAB Tournament
- iii) Vidyasagar Trophy Tournament

ORGANISED VARIOUS COACHING CAMP AT ASHRAM GROUND AND NEW PHYSICAL EDUCATION COMPLEX:

i.Football (M) ii.Cricket (M) iii. Basketball (M) iv. Kho-Kho (M) v. Athletics (M) vi. Yoga (M&W) vii.Table Tennis (M&W) viii. Aquatics (M) ix. Chess (M) x. Badminton (M&W) xi. Kabaddi(M)

ORGANISED SPORTS ACTIVITIES FOR PATHA-BHAVANA:

A. Organised in various tournament:

Inter class Competition:

- i) Football (M)
- ii) Cricket (M)
- iii) Basketball(M)

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Annual Athletic Meet:

Patha Bhavana

ORGANISED VARIOUS INTER-BHAVANA COMPETITION

- i) Visva-Bharati Annual Athletic meet at Vinaya-Bhavana Complex.
- ii) Inter Bhavana Football Tournament at Ashram Ground.
- iii) Inter Bhavana Cricket Tournament at Ashram Ground.
- iv) Inter Bhavana Athletic Meet at New Physical Education complex.
- v) Inter Bhavana Badminton at Ashram Ground
- vi) Inter Bhavana Basketball at Ashram Ground
- vii) Inter Bhavana Volleyball at Ashram Ground
- viii) Inter Bhavana Table Tennis (M&W) at Ashram Ground
- ix) Inter School Cricket Tournament at Bolpur Stadium.
- x) Inter School Football Tournament, Bankim Cup at Jadavpur, Kolkata.

PARTICIPATION IN VARIOUS EVENT:

- a) Inter School Cricket Tournament at Bolpur stadium.
- b) Inter school Football Tournament, Bankim Cup at Jadavpur, Kolkata.

ORGANISED VARIOUS INVITATION MATCHES:

- i) On the occasion of Halakarshana Visva-Bharati School Team played a football match with Hemshila High School at Sriniketan Ground. Visva-Bharati School won the match.
- ii) On 15th August 2012, Visva-Bharati Football team played a football match with Bolpur Town Club at Ashram Ground
- iii) On 17th September 2011 Visva-Bharati Football team Vs PGGIPE Banipur.
- iv) Cricket Match between Vice-Chancellor XI Vs Directors'- XI at Ashram Ground. Vice-Chancellor XI won the match.
- v) Visva-Bharati Staff Football Tournament-2012-13
- vi) Visva-Bharati Staff Volleyball Tournament-2012-13

IMPROTANT INFORMATION

- i) First time Visva-Bharati Sports Board Organize Inter Bhavana Badminton (M&W), Volley Ball (M) Tournament.
- ii) First time Visva-Bharati Sports Board participated in the East Zone Interschool tournaments in Kabaddi (M) Badminton (M&W) Chess (M) Aquatics (M).
- iii) First time Siksha Satra and Patha Bhavana played Bankim Cup Football Tournament held at Jadavpur University, 12-13.

PATHA-CHAKRA (STUDY CIRCLE)

The Visva-Bharati Study Circle formed with the blessings of our founder had two broad interests. It was intended that it should be a medium of communication of the results of studies in different fields of investigation. The Study Circle which started in a mixed atmosphere of uncertainty and hope, gradually developed into an academic forum of Visva-Bharati. The noted features of the development are, broadly speaking (a) the increasing emphasis in research in the treatment of subjects; (b) provision for lectures of scholars from outside Visva-Bharati.

Pandit Jawaharlal Nehru, the former Prime Minister of India wrote about the Study Circle in 1958 - "I think this is a very good idea and I send my good wishes for it." Indira Devi Choudhurani lauded it because it was vital "primarily to the training of the mind of man', as well as in fostering "interest in intellectual matters". Nandalal Bose suggested that it made a "useful contribution to the intellectual life of the institution through healthy discussions and discourses".

Special Lectures Organized by the Study Circle (Patha Chakra) Visva-Bharati in 2012-2013

1. Lecture titled, "What Exactly Did S.N. Bose Do"? Delivered by Prof. Sushanta Dattagupta on 14th July, 2012.
2. Lecture titled, "Diabetes Bishoye Amader Gobeshona: Ekti Alochona". Delivered by Prof. Sameer Bhattacharya, chaired by Prof. Sushanta Dattagupta, Vice Chancellor, Visva-Bharati on 8th September, 2012
3. Lecture titled, "Bose Condensation I" (Special Lecture of the Tagore-Einstein Bhavana in association with Patha-Chakra, Visva-Bharati). Delivered by Prof. Benoy Chakravorty, Grenoble, France, chaired by Prof. Sushanta Dattagupta, Vice Chancellor, Visva-Bharati on 3rd December, 2012.
4. Lecture titled, "Does Consciousness Come from Coherence". Delivered by Prof. Benoy Chakravorty, chaired by Prof. Sushanta Dattagupta, Vice Chancellor, Visva-Bharati on 8th December, 2012.
5. Lecture titled, "My English Breath in Foreign Clouds: Shakespeare and Global Communication." Delivered by Prof. Sheila T. Cavannagh, Emory University USA and Professor Antony Johae, Kuwait University, chaired by Prof. Goutam Ghoshal, Visva-Bharati on 13.12.2012.
6. Lecture titled, "Sri Ramakrishna: The Bridging of two Cultures." Delivered by Dr. Martin Kampchen, chaired by Prof. Sushanta Dattagupta, Vice Chancellor, Visva-Bharati on 21st January, 2013.
7. Lecture titled, "The Young Tagore - I: A Passage to England." Delivered by Prof. Sudhir Kakar, chaired by Dr. Martin Kampchen on 28th January, 2013.
8. Lecture titled, "A Shadow Falls". Delivered by Prof. Sudhir Kakar, chaired by Prof. Sushanta Dattagupta, Vice Chancellor, Visva-Bharati on 29th January, 2013.
9. Lecture titled, "What's Love Got to Do It?: Challenging India's Rape Culture." Delivered by Prof. Ruchira Gupta, chaired by Prof. Sushanta Dattagupta, Vice Chancellor, Visva-Bharati on 14th February, 2013.
10. Lecture titled, "Friendship in the Shadow of Empire: Tagore's Reception in Chicago, 1913-31". Delivered by Prof. Dipesh Chakravorty, University of Chicago, chaired by Prof. Uday Narayana Singh, Rabindra-Bhavana, Visva-Bharati. on 28.02.2013.
11. Lecture titled, "The Corporatization of Media in India." Delivered by Paranjoy Guhathakurta, chaired by Prof. G. Subbiah, Visva-Bharati on 15th March, 2013.

Workshops/Conferences organized by the Study Circle (Patha Chakra) Visva-Bharati in 2012-2013

1. National Conference on "Tagore, Bose and Mahalanobis - Confluence of Minds", jointly organized by Sir J.C. Bose Trust, Kolkata and Patha Chakra, Visva-Bharati on 28th July, 2012.
2. International Workshop on "Conflict Resolution Skills for Work and Life", organized jointly by the Conflict Resolution Centre of Santa Cruz Country, California and Patha-Chakra, Visva-Bharati on 2nd March, 2013.

WOMEN'S STUDIES CENTRE

Women's Studies Centre in Santiniketan was established on 26 Oct, 2009. This Centre was sponsored by U.G.C which plays a significant role in academic upliftment from gender perspective. From its emergence till now it is working as "Academic Centre" of Visva-Bharati University. The Research Assistants of this Centre participated in different types of activities for the year of 2012 to 2013. They helped and participated in Workshop, Conference and Seminars which was organized by Women's Studies Centre. They also involved themselves in different types of extension activities of W.S.C. The Women's Studies Centre with Research Assistants organized various community out-reach programs for needy and under privileged people living nearby Santiniketan. Through interaction with different groups of women, the member of self-help group and elderly people at rural communities, Research Assistants provided the information on various sensitive issues related to Health, Education govt. schemes and thereby sensitized the target groups. As most of the members of the community are not aware of the Govt. schemes and measures, the information was provided to them regarding various govt. provisions for the welfare of the community. Women's Studies Centre believes that women's study is not merely a subject to be studied in the four walls of the class but to create a woman friendly environment in the society where every woman irrespective of her place of birth and social-economic status will get due opportunity to realize her identity and Research Assistants of W.S.C's main objectives is to promote gender equal society and create gender friendly environment. Their goal is to develop, promote and disseminate knowledge about Women's role in society.

Seminar/Conference :

1. Women's Studies Centre organized a conference program on "Women and Rice Culture Deconstruction of LaxmiVrat Katha",
On Dec 17, 2012 at Women's Studies Centre. The participants were students of Chinese Department and Department of Hindi and from other department also. All students cordially participated in this program.
2. Dr. ChitraSinha, Academic Advisor based in Bahrain, delivered a lecture on "Law and Rights: For genders" on 22nd Jan, 2013, it was organized by Women's Studies Centre.
Women's Studies Centre organized a lecture program on 22nd Jan, 2013 at Indira Gandhi Centre, Visva-Bharati. Dr. Chitra Sinha chaired as chief guest. She delivered lecture on "Law and Rights: For genders". session which was extremely rewarding experience for all students and teachers of other department of Visva-Bharati.
3. National Seminar on "Role of Women in Ancient Texts" was organized by Women's Studies Centre on 8th March 2013.
4. A Conference on "Women director in Contemporary Theater" was jointly organized by Karmi-Mandali and W.S.C of Visva-Bharati, on 24th March,2013 at Lipika Auditorium by wishing all the budding theater actress a prosperous career and also advised them not to get diverted from the path of ethics and morality.

Extension Activities :

- A number of meetings with the members of self-help group from Suprity Society(SHG) at surul village near Sriniketan and others village women , representatives from NABARD and other panchayet resource persons were organized during Nov, 2013- March, 2012.
- **One Day Katha Stitch Training Program :**
One day katha stitch program at Surul village in Birbhum with the member of Suprity Society (SHG) and representatives from NABARD participants was jointly organized by Women's Studies Centre, Visva-Bharati on 9th Nov, 2012.
- **A counseling program on "HIV & AIDS" was organized by Women's Studies Centre:**
A counseling program on "HIV & AIDS" was organized by Women's Studies Centre on 25th Feb, 2013 at Women's Studies Centre,

Chapter-3

ACADEMIC PROGRAMMES

Academic Programme for the year 2012 – 2013

BHASHA-BHAVANA (INSTITUTE OF LANGUAGES, LITERATURE AND CULTURE) (Code: 01)

1. Two year M.A. Courses in Sanskrit; Bengali; English; Hindi; Oriya; Indo-Tibetan Studies; Chinese; Persian; Japanese.
2. Two year M.A. Course in Functional Hindi (Translation)
3. Two year's M.Phil. course in English and Odia.
4. Three year B.A. (Honours) Courses in Sanskrit; Bengali; English; Hindi; Oriya; Persian; Tibetan; Japanese; Santali.
5. Four year B.A. (Honours) Courses in Persian; Tibetan; Chinese; Japanese preceded by one year preparatory course.
6. Three year B.A. Course in Functional Hindi (Vocational).

VIDYA-BHAVANA (INSTITUTE OF HUMANITIES & SOCIAL SCIENCES) (Code: 02)

1. Two year M. A. Courses in Philosophy; Comparative Religion; Economics; History; Ancient Indian History, Culture & Archaeology; Geography; Mathematics; Journalism & Mass Communication.
2. Three year M.Phil. course in Ancient Indian History Culture & Archaeology, Economics, and History
3. Three year B.A. (Honours) Courses in Philosophy; Comparative Religion; Economics; History; Ancient Indian History, Culture & Archaeology; Geography; Mathematics.

SIKSHA-BHAVANA (INSTITUTE OF SCIENCE) (Code: 03)

1. Two year M. Sc. Courses in Physics; Chemistry; Mathematics; Zoology; Botany; Statistics; Environmental Science; Computer Science and Biotechnology.
2. Three year B. Sc.(Honours) Courses in Physics; Chemistry; Mathematics; Zoology; Botany; Statistics; Computer Science.
3. Five-Year Integrated M Sc Course in Physical Science

SANGIT-BHAVANA (INSTITUTE OF MUSIC, DANCE & DRAMA) (Code: 04)

1. Two year M.Mus. Courses in Rabindra Sangit; Hindusthani Classical Music (Vocal); Hindusthani Classical Music: Instrumental (Sitar/ Esraj /Tabla / Pakhawaj); Kathakali and Manipuri Dance.
2. Three year B.Mus. (Honours) Courses in Rabindra Sangit; Hindusthani Classical Music (Vocal); Hindusthani Classical Music: Instrumental (Sitar/Esraj/Tabla/Pakhawaj); Kathakali Dance; Manipuri Dance; Drama and Theatre Arts.

KALA-BHAVANA (INSTITUTE OF FINE ARTS) (Code: 05)

1. Two year M. Fine Arts (MFA)/ Advanced Diploma Courses in Painting; Mural; Sculpture; Graphic Art (Print Making); Design (Textile); Design (Ceramic); History of Art (only for M.F.A.).
2. Four year B. Fine Arts (Honours) (B.F.A)/ Diploma Courses in Painting; Sculpture; Graphic Art (Print Making); Design (Textile); Design (Ceramic); History of Art [only for B.F.A.(Hons.)].
3. Two year Certificate Course in Design.
4. Bridge Course (leading to M.F.A.) in History of Art Course (three year [one year Bridge course + two year regular course]) for students from other than Fine Arts discipline.
5. One Year Casual Course for Indian Nationals in Painting / Sculpture / Graphic Art (Print Making) / Design (Textile/ Ceramic) / History of Art.

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PALLI-SAMGATHANA VIBHAGA (INSTITUTE OF RURAL RECONSTRUCTION) (Code: 06)

1. Two year M.A. / M. Sc. Course in Anthropology
2. Two year M.A. Course in Rural Development
3. Two year M.S.W. Course
4. Three year B.S.W. (Honours) Course
5. Four year B. Des. Course (Fee Rs.5000.00 per semester)
6. Two-year Certificate Course in (i) Hand-made Paper Making (ii) Artistic Leather Craft (iii) Batik Work (iv) Handloom Weaving (v) Pottery (vi) Wood Work
7. Short term casual courses in Craft
 - (i) Batik & Bandhni (ii) Clay Jewellery (iii) Ceramic Table-ware (iv) Ceramic Tiles (v) Creative Weaving (Tapestry & Hobby loom) (vi) Dyeing and Printing (vii) Glazing and Firing (viii) Hand-made Paper crafts (ix) Leather crafts (x) Natural Dyes (xi) Raku crafts (xii) Wooden Toy Making (xiii) Wooden Table-ware (xiv) Wooden Jewellery (xv) Wood Carving (xvi) Wood Turning (xvii) Book Binding

Duration of each course: 8 weeks to 20 weeks depending upon the subject requirement.

PALLI SIKSHA BHAVANA (INSTITUTE OF AGRICULTURE) (Code: 07)

1. Two year M. Sc. (Ag.) Courses in Agronomy; Plant Protection; Agricultural Extension; Soil Science & Agricultural Chemistry and Horticulture.
2. Four year B.Sc. (Ag.) Honours Course.

VINAYA-BHAVANA (INSTITUTE OF EDUCATION) (Code: 08)

1. Two year M.A. in Education Course.
2. Three year B.A. / B. Sc. (Honours) in Physical Education Course
3. One year B. P. Ed. Course
4. Two year M. P. Ed Course

Chapter-4

BHASHA-BHAVANA

(Institute of Language Literature & Culture)

Adhyaksha (Principal) **Prof. Rameswar Prasad Mishra**

Roll Strength as on 31.03.2013

B.A. (Hons)

Course	General		SC		ST		PH		OBC		Minority		Resident Students	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	45	48	25	7	10	5	4	-	27	21	14	2	55	48
2nd Yr.	48	56	18	17	5	7	1	1	35	16	1	6	51	55
3rd Yr.	45	44	32	15	8	10	3	3	32	21	5	2	67	58
Total	138	148	75	39	23	22	8	4	94	58	20	10	173	161

Japanese (Prep)

	9	1	5	-	-	-	-	-	4	2	4	-	-	-
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Chinese (Prep)

	12	3	6	-	2	-	1	-	8	1	4	1	-	-
Total	12	3	6	-	2	-	1	-	8	1	4	1	-	-

M.A

1st Yr.	41	55	12	16	10	4	-	1	23	20	9	1	50	68
2nd Yr.	35	86	16	17	6	4	-	-	13	16	4	7	56	72
Total	76	141	28	33	16	8	-	1	36	36	13	8	106	140

Ph.D

	34	30	4	2	1	2	-	-	4	3	4	5	8	5
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2Yr. Certificate Course in Language

1st. Yr.	32	18	10	4	6	5	-	-	9	7	5	1	-	-
2nd Yr.	16	18	8	5	7	4	-	-	12	7	9	2	-	-
Total	48	36	18	9	13	9	-	-	21	14	14	3	-	-

1 Yr. Diploma in Language

	6	5	1	-	1	1	-	-	2	1	-	-	-	-
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1 Yr. Foreign Casual Course

	5	4	-	-	-	-	-	-	-	-	-	-	-	-
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Distribution of Day scholar and Resident Students

	M	F	T
Day Scholar	318	252	570
Resident	287	306	593
Total	605	558	1163

NEW Admission (2012-13)**B.A. (Hons)**

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	45	48	25	7	10	5	27	21	4	-

M.A.

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	41	55	12	16	10	4	23	20	-	1

Ph.D.

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	18	19	4	2	1	2	4	3	-	-

Certificate Course

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	111	62	22	12	13	10	15	17	-	-
	32	18	10	4	6	5	9	7	-	-

Diploma in Language

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	9	8	3	-	3	5	5	3	-	-
	6	5	1	-	1	1	2	1	-	-

M.Phil

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	4	8	3	-	-	-	9	2	-	-

FCC

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	5	4								

Distribution of Foreign Students

Country	M	F	T
France	1	-	1
British	1	-	1
China	-	1	1
Bangladesh	1	1	2
Nepal	1	-	1
Total	4	2	6

**State-wise break-up of Students
(Outside West Bengal)**

State	M	F	T
JK	2	-	2
Uttarakhand	-	1	1
Bihar	10	1	11
Uttar Pradesh	4	1	5
Jharkhand	6	-	6
Odisha	22	12	34
Tripura	0	2	2
Total	44	17	61

Subject-wise break-up of students in different courses**Course (2012-13)**

Subject	B.A. Hons			M.A.			Ph.D.		
	M	F	T	M	F	T	M	F	T
Bengali	15	26	41	23	23	46	8	9	17
English	13	24	37	24	22	46	5	10	15
Chinese	32	4	36	10	8	18	1	0	1
Odia	-	-	-	3	8	11	5	3	8
Sanskrit	21	18	39	18	24	42	7	10	17
Hindi	4	2	6	5	3	8	11	9	20
Indo-Tibetan	8	3	11	1	1	2	4	-	4
Japanese (Hons)	2	-	2	4	5	9	-	-	-
Japanese (Prep)	22	3	25	-	-	-	-	-	-
Arabic Persian	5	-	5	2	-	2	6	1	7
Santali	3	3	6	5	3	8	-	-	-
Total	125	83	208	95	97	192	47	42	89

Ch-IV

Subject-wise distribution of students in language course (Diploma & Certificate)

Course	Certificate			Diploma		
	M	F	T	M	F	T
Hindi	3	1	4	-	-	-
German	10	9	19	-	-	-
Tibetan	-	-	-	-	-	-
Assamese	-	-	-	-	-	-
Russian	3	-	3	2	1	3
Japanese	-	-	-	-	-	-
Odia	1	-	1	-	-	-
Urdu	-	-	-	-	1	1
Persian	-	-	-	1	-	1
Arabic	3	1	4	-	-	-
Marathi	1	-	1	-	-	-
Santali	16	4	20	6	3	9
Sanskrit	-	-	-	-	-	-
Bengali	1	-	1	-	-	-
Italian	3	1	4	2	1	3
French	16	6	22	-	1	1
Pali	-	-	-	-	-	-
* F.C.C. in Bengali	2	1	3	-	-	-
F.C.C. in Sanskrit	-	-	-	-	-	-
F.C.C. in Tibetan	1	-	1	-	-	-
F.C.C. in Hindi	-	-	-	-	-	-
F.C.C. Oriya	-	-	-	-	-	-
F.C.C. in AIHC&A	-	-	-	-	-	-
F.C.C. in Philosophy	-	-	-	-	-	-
Total	60	23	83	11	7	18

*F.C.C. = Foreign Casual Course

VIDYA-BHAVANA
(Institute of Social Sciences)
Adhyaksha (Principal) **Prof. Onkar Prasad**
Roll Strength as on 31.03.2013

B.A. (Hons)

Course	Total		SC		ST		OBC		PH		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	130	96	30	9	12	7	29	17	0	3	11	7
2nd Yr.	133	84	39	12	11	5	33	12	1	1	11	3
3rd Yr.	131	69	30	10	12	6	0	0	0	0	9	2
Total	394	249	99	31	35	18	62	29	1	4	31	12

M.A.

Course	Total		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	124	121	35	15	9	5	1	-	29	19	9	9
2nd. Yr.	107	108	23	12	11	3	4	-	21	14	6	3
Total	231	229	58	27	20	8	5	-	50	33	15	12

Ph.D

Course	Total		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	51	42	12	12	3	0	-	-	4	1	1	1
2nd. Yr.	46	21	9	10	1	0	-	-	3	1	4	-
Total	97	43	21	22	4	0	0	-	7	2	5	1

M.Phil

Course	Total		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	2	1	-	-	--	-	-	-	--	-	--	-
2nd. Yr.	3	1	-	-	-	-	-	-	-	-	-	-
Total	5	2	-	--	-	-	-	-	-	-	-	-

Ch-IV

**Distribution of Dayscholar
and Resident students**

	M	F	T
Dayscholar	591	318	909
Resident	136	205	341
Total	727	523	1250

**NEW ADMISSION
B.A. (Hons)**

	Total		SC		ST		OBC		PH		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
Admitted	130	96	30	9	12	7	29	17	0	3	11	7

M.A.

Admitted	124	121	35	15	9	5	29	19	1	0	9	9
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Distribution of Foreign Students

Country	M	F	T
Korea	2	1	3
Poland	0	2	2
Bangladesh	4	-	4
Total	6	3	9

**State-wise break-up of students
(From outside West Bengal)**

STATE	M	F	T
Orissa	-	1	1
Uttara Khand	-	-	-
Jharkhand	-	2	2
Andhra Pradesh	-	-	-
Bihar	-	-	-
Total	-	3	3

Subject-wise break-up of students in different courses

Subject	Course					
	B.A. Hons			M.A.		
	M	F	T	M	F	T
History	25	13	38	26	17	43
Economics	16	17	33	12	9	21
AIHC&A	31	9	40	28	16	44
Mathematics	-	2	2	-	-	-
Geography	24	22	46	26	20	46
Philosophy	20	19	39	23	23	46
Comparative Religion	20	11	31	4	7	11
CJMC	-	-	-	4	24	28
Anthropology	-	-	-	1	5	6
Total	130	96	226	125	126	251

SIKSHA-BHAVANA

(Institute of Science)

Adhyaksha (Principal) **Prof. A.K. Ray**

Roll Strength as on 31.03.2013

B.Sc. (Hons) (including repeater, sup)

Course	General		SC		ST		PH		OBC		Minority		Citizenship		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1st Yr.	71	30	25	04	08	03	-	-	26	11	4	1	-	-	-	-
2nd Yr.	131	58	20	13	11	04	0	02	35	06	-	-	-	-	-	-
3rd Yr.	156	54	25	10	10	03	-	-	41	14	8	-	-	-	-	-
Total	358	142	70	27	29	10	0	2	102	31	12	1	-	-	-	-

M.Sc. (including repeater, sup.)

Course	General		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	85	56	24	14	9	4	-	-	12	7	13	5
2nd Yr.	148	89	29	8	7	3	1	-	26	16	-	-
Total	233	145	53	22	16	7	1	-	38	23	13	5

Ph.D

Course	General		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
Batch II	57	11	9	2	1	-	-	-	11	1	-	-
Batch III	29	12	2	-	-	-	-	-	5	1	-	-
Batch IV	31	23	4	1	1	-	-	-	3	1	-	-

**Distribution of Dayscholar
and Resident students**

	M	F	T
Dayscholar	731	396	1127
Resident	298	72	370
Total	1029	468	1497

Subject-wise break-up of students in different courses

Subject	BSc..Hons			M.Sc.			Ph.D.		
	M	F	T	M	F	T	M	F	T
Physics	60	16	76	71	13	84	18	3	21
Chemistry	55	19	74	64	22	86	31	4	35
Mathematics	58	12	70	62	30	92	20	-	20
Botany	34	21	55	39	33	72	26	11	37
Zoology	40	21	61	44	36	80	21	15	36
Biotechnology	-	-	-	9	14	23	14	8	22
Statistics	20	6	26	7	5	12	2	2	4
Mathematics Edn.	-	-	-	-	-	-	1	-	1
Computer Sc.	21	4	25	21	4	25	4	5	9
Env. Science	-	-	-	16	4	20	12	4	16
Integrated Science	-	-	-	12	3	15	4	2	6
Total	288	99	387	345	164	509	153	54	207

NEW ADMISSION**B.Sc. (Hons) (including Repeater)**

	General		SC		ST		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F
Ist Semester	71	30	25	4	8	3	26	11	4	1

M.Sc. (including Repeater)

	General		SC		ST		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F
Ist Semester	85	56	24	14	9	4	12	7	13	5

Ph.D

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Batch IV	31	23	4	1	1	-	3	1	-	-

Distribution of Foreign Students

Country	M	F	T
Bangladesh	1	2	3

**State-wise break-up of students
(From Outside West Bengal)**

STATE	M	F	T
Bihar	5	1	6
U.P	3	2	5
Jharkhand	3	4	7
Andhra Pradesh	2	-	2
Sikkim	1	-	1
Chhatishgarh	-	2	2
Maharashtra	1	2	3
Tamilnadu	1	-	1
Chandigarh	-	1	1
Odisha	2	-	2
Uttar Pradesh	-	1	1
New Delhi	-	1	1
Total	18	14	32

Kala-Bhavana
(Institute of Fine Arts and Crafts)
Adhyaksha (Principal) **Prof. Sisir Sahana**
Roll Strength as on 31.03.2013

B.F.A.

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
1st Yr.	16	15	7	1	3	1	-	-	10	4	29	17
2nd Yr.	12	20	5	3	4	-	-	1	8	5	25	20
3rd Yr.	12	12	3	1	4	-	-	-	5	8	19	19
4th Yr.	16	21	3	3	1	2	1	-	8	2	22	22
Total	56	68	18	8	12	3	1	1	31	19	95	78

M.F.A.

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
1st Yr.	19	33	7	4	5	1	-	-	17	4	20	25
2nd Yr.	21	27	6	3	2	2	1	-	16	1	40	21
Total	40	60	13	7	7	3	1	-	33	5	60	46

Certificate Course

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
1st Yr.	4	8	4	-	1	-	-	-	-	1	-	-
2nd Yr.	4	3	2	-	-	1	-	-	-	2	-	-
Total	8	11	6	-	1	1	-	-	-	3	-	-

Ph.D

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
	8	10	1	-	1	2	-	-	-	1	-	-

Distribution of Dayscholar and Resident students

	M	F	T
Dayscholar	82	84	166
Resident	155	124	279
Total	237	208	445

Ch-IV

**NEW ADMISSION
B.F.A.**

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	35	20	15	5	7	4	13	5	-	-
Admitted	16	15	7	1	3	1	10	4	-	-

M.F.A

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	100	76	40	20	25	10	45	24	-	-
Admitted	17	33	7	4	5	1	18	4	-	-

Certificate

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	7	10	4	-	1	-	-	1	-	-
Admitted	4	8	4	-	1	-	-	1	-	-

Ph.D.

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	2	1	-	-	-	-	-	-	-	-
Admitted	2	1	-	-	-	-	-	-	-	-

One Year Casual Course

	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
Applied	1	4	-	-	-	-	-	-	-	-	-	-
Admitted	1	4	-	-	-	-	-	-	-	-	-	-

Foreign Casual

	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
Admitted	1	2	-	-	-	-	-	-	-	-	-	-
Admitted	1	2	-	-	-	-	-	-	-	-	-	-

Bridge Course

	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
Applied	2	1	-	-	-	-	-	-	-	-	-	-
Admitted	2	1	-	-	-	-	-	-	-	-	-	-

**State Wise break-up of students
(From Outside West Bengal)**

STATE	M	F	T
Andhra Pradesh	0	1	1
Arunachal Pradesh	-	1	1
Assam	13	14	27
Himachal Pradesh	1	-	1
Jammu & Kashmir	2	-	2
Jharkhand	5	6	11
Karnataka	1	1	2
Kerala	7	1	8
Maharashtra	-	6	6
Meghalaya	2	1	3
Mizoram	1	-	1
Manipur	1	-	1
Nagaland	1	1	2
Sikkim	1	-	1
Orissa	6	2	8
Punjab	1	8	9
Tamil Nadu	-	1	1
Tripura	4	8	12
Uttar Pradesh	9	7	16
Uttaranchal	1	-	1
Bihar	5	6	11
Delhi	3	5	8
Goa	5	3	8
Gujarat	-	1	1
Haryana	2	1	3
M.P	1	1	2
TOTAL	72	75	147

Distribution of Foreign students

COUNTRY	M	F	T
Bangladesh	18	8	26
China	2	-	2
Thailand	3	6	9
Korea	1	4	5
Spain	-	1	1
Iran	-	1	1
Japan	-	5	5
Mauritus	-	1	1
Srilanka	-	2	2
German	-	1	1
TOTAL	24	29	53

Sangeet-Bhavana

(Institute of Music, Dance & Drama)

Adhyaksha (Principal) **Prof. Indrani Mukhopadhyay**

Roll Strength as on 31.03.2013

B.Mus (Hons)

Course	General		SC		ST		PH		OBC	
	M	F	M	F	M	F	M	F	M	F
1st. Yr	12	56	3	6	-	-	-	-	-	4
2nd Yr.	20	54	-	4	-	-	-	-	-	2
3rd Yr.	10	38	1	11	-	1	-	-	3	3
Total	42	148	4	21	-	1	-	-	3	9

M.Mus

Course	General		SC		ST		PH		OBC	
	M	F	M	F	M	F	M	F	M	F
1st Yr.	9	29	3	5	-	1	-	-	1	4
2nd Yr.	10	32	1	8	1	1	-	-	-	2
Total	19	61	4	13	1	2	-	-	1	6

Ph.D.

Course	General		SC		ST		PH		OBC	
	M	F	M	F	M	F	M	F	M	F
	15	21	-	2	-	-	-	-	1	-

Distribution of Foreign students

COUNTRY	M	F	T
Bangladesh	4	6	10
Sri Lanka	3	2	5
Thailand	2	7	9
Japan	1	-	1
Indonesia	-	1	1
South Korea	-	1	1
Taiwan	1	0	1
Grand Total	11	17	28

Foreign Casual Course

M	F	Total
1	1	2

Distribution of Dayscholar and Resident students

	M	F	T
Dayscholar	72	247	319
Resident	33	89	122
Total	105	336	441

**State Wise break-up of students
(From Outside West Bengal)**

STATE	M	F	T
Tripura	0	3	3
Assam	1	1	2
Orissa	1	0	1
Bihar	2	2	4
Manipur	1	8	9
Jharkhand	2	3	5
Andaman	0	1	1
Sikkim	1	0	1
Maharashtra	-	1	1
Delhi	1	2	3
Total	9	21	30

2 Years Certificate Course

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	10	23	-	4	-	1	-	-	4	6	-	-
2nd Yr.	5	21	1	3	-	-	-	-	1	1	-	-

Ch-IV

**NEW ADMISSION
B.Mus**

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	30	169	12	23	1	2	-	12	-	1
Admitted	12	56	3	6	0	0	-	4	-	-

M.Mus

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	21	67	06	07	1	1	1	4	-	-
Admitted	09	29	03	05	-	1	1	4	-	-

Ph.d

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	13	41	-	1	1	-	1	2	2	-
Admitted	5	8	-	-	-	-	-	0	1	-

Foreign Casaul Course

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied	2	-	-	-	-	-	-	-	-	-
Admitted	2	-	-	-	-	-	-	-	-	-

Vinaya-Bhavana
(Institute of Education)
Adhyaksha (Principal) **Prof. Sabujkoli Sen**
Roll Strength as on 31.03.2013

B.Ed.

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	20	28	10	6	4	3	1	2	14	13	27	33

M.A. in Edu.

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	9	8	6	1	1	2	-	-	8	1	17	9
2nd Yr.	8	9	3	1	-	1	-	-	1	4	9	12
Total	17	17	9	2	1	3	-	-	9	5	26	31

Ph.D.

	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
	2	12	2	-	2	2	-	-	2	-	-	-

NEW ADMISSION**B.Ed.**

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	321	445	330	242	149	65	316	215	3	4
	20	20	10	6	4	3	14	13	1	2

M.A. (Edn.)

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Applied Admitted	60	76	56	22	5	6	36	19	-	-
	10	9	6	1	1	2	9	1	-	-

Distribution of Dayscholar and Resident students

	M	F	T
Dayscholar	31	23	54
Resident	53	54	107
Total	84	77	161

State-wise distribution of students (From Outside West Bengal)

State	Male	Female	Total
Sikkim	-	1	1

Physical Education

Roll Strength as on 31.03.2013

B.A./B.Sc. (Hons.)

Course	General		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	35	6	8	1	5	-	-	-	14	2	6	3
2nd Yr.	34	3	8	1	5	-	-	-	11	1	8	-
3rd. Yr.	34	4	7	1	3	0	-	-	10	-	4	1
TOTAL	103	13	23	3	13	-	-	-	35	3	18	4

B.P. Ed.

General		SC		ST		PH		OBC		Minority	
M	F	M	F	M	F	M	F	M	F	M	F
40	9	12	2	2	1	-	-	8	2	6	-

M.P. Ed.

Course	General		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st Yr.	27	3	8	-	3	-	-	-	9	2	4	0
2nd Yr.	28	2	8	-	3	-	-	-	10	-	4	-
TOTAL	55	5	16	-	6	-	-	-	19	2	8	0

Subject-wise break-up of students in different courses

Subject	Graduate			PG		
	M	F	T	M	F	T
B.P.Ed.				35	8	43
B.A./B.Sc. Hons.	100	11	111	-	-	-
M.P. Ed.	-	-	-	57	3	60
TOTAL	100	11	111	92	11	103

Distribution of Dayscholar and Resident students

	M	F	T
Dayscholar	121	9	130
Resident	77	18	95
Total	198	27	225

State-wise Break up of students (From Outside West Bengal)

STATE	M	F	T
Jharkhand	0	1	1
Manipur	2	0	2
TOTAL	2	1	3

Palli Samgathana Vibhaga
(Institute of Rural Reconstruction)
Adhyaksha (Principal) : Prof. Prasanta Kumar Ghosh
Department of Social Work
Roll Strength as on 31.03.2013

B.S.W. (Hons.)

Course	General		SC		ST		PH		OBC		Minority		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	11	9	4	2	2	2	-	-	7	2	2	-	12	2
2nd Yr.	8	6	6	1	2	1	-	-	4	3	1	-	5	7
3rd Yr.	11	6	4	4	-	2	-	-	5	5	-	-	11	11
Total	30	21	14	7	4	5	-	-	16	10	3	-	28	20

M.S.W.

Course	General		SC		ST		PH		OBC		Minority		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1st. Yr.	6	12	3	4	-	4	-	-	2	8	1	2	7	15
2nd Yr.	9	8	3	3	2	1	-	-	4	3	-	1	16	10
Total	15	20	6	7	2	5	-	-	6	11	1	3	23	25

Ph.D.

Course	General		SC		ST		PH		OBC		Resident student	
	M	F	M	F	M	F	M	F	M	F	M	F
	4	9	1	2	2	2	-	-	3	-	2	1

NEW ADMISSION**B.S.W. (Hons.)**

Admitted	General		SC		ST		OBC		Minority		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
	11	9	4	2	2	2	7	2	2	-	12	2

MSW

Admitted	General		SC		ST		OBC		Minority		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
	6	12	3	4	-	4	2	8	1	2	7	15

Ph.D (New Admission)

Admitted	General		SC		ST		OBC		Minority		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
	1	-	-	1	1	2	2	-	-	-	-	-

Ch-IV

**Distribution of Dayscholar
and Resident students**

	M	F	T
Dayscholar	50	53	103
Resident	53	46	99
Total	103	99	202

**State-wise Break up of students
(From Outside West Bengal)**

STATE	M	F	T
Assam	-	2	2
Jharkhand	2	2	4
Manipur	-	2	2
Orissa	4	-	4
Tripura	1	-	1
Sikkim	1	1	2
U.P.	1	-	1
Total	9	7	16

Distribution of Foreign students

Country	M	F	T
Bangladesh	5	1	6

Subject- wise break-up of students in different courses

Subject	Graduate			Post Graduate			Ph.D.		
	M	F	T	M	F	T	M	F	T
Social-Work	66	44	110	33	42	75	10	13	23

Silpa-Sadana
Roll Strength as on 31.03.2013

Bachelor in Design

Course	General		SC		ST		PH		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F	M	F
1st Yr.	17	4	4	1	-	-	-	-	4	4	3	2
2nd Yr.	14	7	3	2	-	-	1	-	4	-	1	2
3rd Yr.	12	4	4	1	-	-	-	-	3	-	2	-
TOTAL	43	15	11	4	-	-	1	-	11	4	6	4

CERTIFICATE

Woodwork

1st. Yr.	2	-	3	-	-	-	-	-	1	-	-	-
2nd Yr.	4	-	3	-	1	-	-	-	1	-	-	-
TOTAL	6	-	6	-	1	-	-	-	2	-	-	-

Pottery

1st. Yr.	2	1	3	-	2	-	-	-	1	-	-	-
2nd Yr.	3	-	3	-	1	-	-	-	1	1	-	-
TOTAL	5	1	6	-	3	-	-	-	2	1	-	-

Handloom Weaving

1st. Yr.	-	-	-	-	-	-	-	-	-	-	-	-
2nd Yr.	-	-	-	-	-	-	-	-	-	-	-	-

Leather

1st. Yr.	1	1	-	-	1	-	-	-	-	1	-	-
2nd Yr.	-	-	-	1	-	-	-	-	-	-	1	-
TOTAL	1	1	-	1	1	-	-	-	-	1	1	-

Hand Made Paper Making

1st. Yr.	-	-	-	-	-	-	-	-	-	-	-	-
2nd Yr.	-	-	-	-	1	-	-	-	-	-	-	-
TOTAL	-	-	-	-	1	-	-	-	-	-	-	-

Batik

1st. Yr.	-	-	-	-	-	-	-	-	-	-	-	-
2nd Yr.	3	-	1	1	-	-	-	-	-	-	-	-
TOTAL	3	-	1	1	-	-	-	-	-	-	-	-

NEW ADMISSION**Bachelor in Design**

	General		SC		ST		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F
Admitted	17	4	4	1	-	-	4	4	3	2

Certificate in Pottery

	General		SC		ST		OBC		Minority	
	M	F	M	F	M	F	M	F	M	F
Admitted	2	1	3	-	2	-	-	-	1	-

Certificate in Wood Work

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Admitted	2	-	3	-	-	-	1	-	-	-

Certificate in Hand Made Paper

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Admitted	-	-	-	-	1	-	-	-	-	-

Certificate in Batik

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Admitted	3	-	1	1	-	-	-	-	-	-

Certificate in Leather Craft

	General		SC		ST		OBC		PH	
	M	F	M	F	M	F	M	F	M	F
Admitted	-	1	1	-	-	1	-	-	1	-

**Distribution of Dayscholar
and Resident students**

	M	F	T
Dayscholar	86	18	104
Resident	23	15	38
Total	109	33	142

**State-wise Break up of students
(From Outside West Bengal)**

STATE	M	F	T
Assam	0	1	1
Uttar Pradesh	0	1	1
Punjab	-	1	1
Total	-	3	3

Subject-wise distribution of students in different courses (Diploma & Certificate)

Course	Certificate		
	M	F	T
Certificate in Wood Work ----	14	1	15
Certificate in Pottery ---	15	1	16
Certificate in Handloom Weaving----	-	-	-
Certificate in Leather Craft-----	2	4	6
Certificate in Hand Made Paper Making-----	1	-	1
Certificate in Batik Work-----	4	1	5
TOTAL	36	7	43

Subject-wise break-up of students in different courses

Subject	Graduate		
	M	F	T
Bachelor in Design	72	27	99

Distribution of Foreign Students

Country	M	F	T
Bangaldesh	3	-	3

Palli Charcha Kendra

(Institute of Rural Development)

Roll Strength as on 31.03.2013

M.A. in Rural Development

Course	General		SC		ST		PH		OBC		Minority		Resident	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Ist Year	3	4	-	-	1	-	-	-	-	-	-	-	1	2
IInd Year	8	4	1	-	-	-	-	-	1	1	-	-	7	4
Total :	11	8	1	0	1	0	-	-	1	1	-	-	8	6

NEW ADMISSION

	M	F	Total
Ist. Yr.	5	6	11

Distribution of Dayscholar and Resident students

	M	F	T
Dayscholar	6	3	9
Resident	8	6	14
Total :	14	9	23

State-wise Break up of students

STATE	M	F	T
Assam	1	0	1
Nagaland	1	-	1
Total	2	0	2

Palli Siksha Bhavana
(Institute of Agricultural Science)
Adhyaksha (Principal) : Prof. P.S. Munshi
Roll Strength as on 31.03.2013

B.Sc. (Ag.) Hons.

Course	General		Scheduled Caste		Scheduled Tribe		Physically Handi-capped		OBC Students		Minority Students		Citizenship Indian		Resident students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1st. Yr.	18	09	07	01	01	02	00	00	10	03	3	2	36	15	25	08
2nd Yr.	20	06	03	02	01	01	00	00	08	05	1	1	32	14	21	11
3rd. Yr.	14	09	06	02	1	00	00	00	11	02	2	2	32	13	23	08
4th. Yr.	16	06	06	02	00	02	01	00	06	00	0	3	29	10	19	10
Total	68	30	22	07	03	05	01	00	35	10	6	8	129	52	88	37

M.Sc. (Ag.)

Course	General		Scheduled Caste		Scheduled Tribe		Physically Handi-capped		OBC Students		Minority Students		Citizenship Indian		Resident students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1st. Yr.	13	03	04	00	03	02	00	00	08	03	02	02	28	08	25	07
2nd Yr.	14	04	03	01	05	00	00	00	05	00	02	00	27	05	20	05
TOTAL	27	07	07	01	08	02	00	00	13	03	04	02	55	13	45	12

Ph.D

Course	General		Scheduled Caste		Scheduled Tribe		Physically Handi-capped		OBC Students		Minority Students		Citizenship Indian		Resident students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	102	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-

B.Sc. (Ag.) Hons.

New Admission

Course	General		Scheduled Caste		Scheduled Tribe		Physically Handi-capped		OBC Students		Minority Students		Citizenship Indian		Resident students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Admitted	18	09	07	01	01	02	00	00	10	03	-	-	-	-	-	-
Applied	493	251	129	36	16	15	07	00	94	40	-	-	-	-	-	-

M.Sc. (Ag.)

New Admission

Course	General		Scheduled Caste		Scheduled Tribe		Physically Handi-capped		OBC Students		Minority Students		Citizenship Indian		Resident students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Admitted	13	03	04	00	03	02	00	00	08	03	-	-	-	-	-	-
Applied	137	22	38	02	48	31	00	00	103	12	-	-	-	-	-	-

Ch-IV

**Distribution of Dayscholar
and Resident students**

	M	F	T
Dayscholar	153	36	189
Resident	133	49	182
Total	286	85	371

**State Wise break-up of students
(From Outside West Bengal)**

STATE	M	F	T
Bihar	9	4	13
Uttar Pradesh	3	0	3
Jharkhand	4	1	5
Orissa	22	9	31
Chhatisgarh	2	0	2
Madhyapradesh	1	0	1
Manipur	2	4	6
Arunachal Pradesh	1	0	1
Tripura	1	1	2
Assam	2	0	2
Andhrapradesh	4	0	4
Sikkim	0	2	2
Meghalaya	1	3	4
Goa	0	1	1
Total	52	25	77

Patha-Bhavana
(School Section)
Adhyaksha (Principal) : Smt. Bodhirupa Sinha
Roll Strength as on 31.03.2013

Course	General		Scheduled Caste		Scheduld Tribe		Physically Handi-capped		OBC Students		Residents Students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
MAPI	17	13	10	06	02	01	00	00	01	00	-	-
MAP II	14	22	03	08	04	01	-	-	-	-	-	-
II	16	20	6	14	1	5	-	-	3	1	11	20
III	27	23	7	7	14	-	-	1	5	-	12	11
IV	21	26	9	13	2	4	-	-	1	4	13	13
V	24	36	12	12	4	4	-	-	-	-	10	16
VI	26	27	7	7	3	1	-	-	2	3	12	11
VII	35	36	5	16	3	4	-	-	1	7	16	17
VIII	42	39	8	4	5	2	-	-	-	1	16	15
IX	41	43	12	13	3	3	-	-	2	4	18	20
X	38	37	7	13	1	1	-	-	1	2	11	11
XI	33	56	6	4	2	3	-	-	1	-	8	25
XII	63	61	9	10	3	4	-	-	1	-	11	17
Total	397	439	101	127	34	37	-	1	18	22	138	176

NEW ADMISSION

CATEGORY	APPLIED			ADMITTED		
	M	F	T	M	F	T
MAPI	78	64	142	30	20	50
MAP II	01	-	01	01	-	1
Class- II	80	108	188	29	45	74
Class - IV	-	01	01	-	01	01
Class - V	-	01	01	-	01	01
Class - VII	01	-	01	01	-	01
Total	160	174	334	61	67	128

Ch-IV

Dayscholar and Resident Students

	M.	F.	T.
Dayscholar	412	450	862
Resident	138	176	314
Total	550	626	1176

**Distribution of Foreign Students
(From Outside West Bengal)**

COUNTRY	M.	F.	T.
Korean	1	-	1
Bangladesh	1	1	2
Thailand	1	-	1
Total	3	1	4

State-wise break-up of students

STATE	M.	F.	T.
Odisha	-	1	1
Bihar	2	1	3
Manipur-	1	1	
Foreigner	3	1	4
Total	5	4	9

Siksha-Satra

(Institute Primary, Secondary & Higher Secondary Education)

Adhyaksha (Principal) : Dr. Jayanta Kr. Bhattacharya

Roll Strength as on 31. 03. 2013

Course Upto Class-XII	General		Scheduled Caste		Scheduld Tribe		Physically Handi-capped		OBC Students		Minority Students	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
KG	5	12	5	2	1	1	-	-	1	1	1	2
I	8	14	5	2	1	2	-	-	-	-	1	-
II	7	19	2	3	3	1	1	-	-	-	-	-
III	5	4	6	3	2	-	-	-	-	-	1	1
IV	7	8	3	1	-	-	-	-	-	-	2	-
V	21	13	5	5	5	4	-	-	-	1	3	1
VI	30	20	16	5	4	1	-	-	2	1	4	7
VII	21	34	8	11	5	2	-	-	-	-	5	3
VIII	30	27	10	8	4	2	-	-	-	-	2	4
IX	23	26	12	5	1	2	-	-	-	-	3	4
X	26	30	5	10	-	2	-	-	-	-	4	3
XI	23	26	12	11	4	3	-	-	7	6	4	4
XII	25	19	4	10	-	1	-	-	-	-	2	1
Total	231	252	93	77	30	21	1	-	10	9	32	30

New Admission

Course	General		Scheduled Caste		Scheduld Tribe		Physically Handi-capped		OBC Students		Minority	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
KG	5	12	5	2	1	1	-	-	-	-	1	2
Class-V	17	3	3	2	2	-	-	-	-	-	2	1
Class-VI	6	7	6	3	1	1	-	-	2	1	2	0

Dayscholar and Resident Students

	M.	F.	T.
Dayscholar	397	389	786
Total	397	389	786

Chapter-5

Library Facilities Annual Report of the Central Library for the Period 2012-13

Total number of books /Periodicals during the year 2012-13:

a) Books Purchased (Print)	2252
b) E-Books Purchased (Perpetual) & Subscription	NIL
c) Books received as gift	1662
d) Titles of Journal subscribed(For Central Library 294 + for Sectional Libraries 53)	347
e) Titles of Journals received as gift	1472
f) CD/DVDs (containing Journals) Subscribed	52
g) CD/DVDs (containing Journals) as gift	08

Total number of books / Periodicals Accessioned as on 31.03. 2013:

Purchased - Books	421895
Gift - Books	6224
Total Books (Print)	428119
Purchased - E-Books	3836
Subscribed - E-Books :	84075
Total E-Books	87911
Received Issues of Journals & Newspaper (Subscribed)	15522
Received Issues of Journals (Gift)	1698
Accessioned for Bound Journals	107

Total number of books transferred to Departmental /Sectional Libraries:

a) Sectional Libraries	NIL
b) Seminar / Departmental Libraries	633

Issue and Return of Books/ Periodicals:

a) Title Issued (Books)	27765
b) Title Returned (Books)	28028
c) Reserve for reissue	4920
d) Title consulted at Reference Section (Ref. Doc., Gen. Stack doc.)	4879
e) Title consulted at Reading Room (Books)	9713
f) Periodical consulted (loose issues, bound volumes & Online)	3393

Photocopy Services with number of documents and pages:

a. Photocopied of Loose issues (Periodical)	125 (801 pages)
b. Photocopy of Reference Documents	195 (2309 pages)
c. Photocopy of Documents from Stack (Text Books)	226 (2496 pages)

Other Modern Technology-based Services:

a) Number of CD / DVD consulted at Periodical Section	30
b) Total users Browsed E-Journal / Database at Periodical + Ref. Sec. 3393+ 5792=	9185
c) Total UGC-INFONET e-journals full-text downloads or views by users =	60814
d) Total Users Used OPAC search Facilities	17343
e) Inter Library Loan service through DELNET	021

f) Number of users requested for digitization	14
e) Total pages digitized on reader's request	862

Resource Sharing

JCCC@INFLIBNET

Service Usage Report for the Data Range 1/4/2012 - 31/3/2013:

Hits- 4167

Request Sent By Visva-Bharati during 1/4/2012 - 31/3/2013:

DDR Fulfilled- 16

DDR Pending- 05

DDR-Unable to Fulfill-11

DELNET:

Request Received: 18 {Books}

Unable to Fulfill-10 {Books}

Request Fulfill- 8 {Books}

Request Sent: 3 {1 (Books) + 2 (Articles)}

Request Fulfil- 3 {1 (Books) + 2 (Articles)}

Books from British Council Library: 45

Personal behalf:

Article Sent: 4

Article Received: 7

Membership for Inter Library Loan (ILL) / Document Delivery Service (DDS):-

- American Library, Kolkata
- DELNET, New Delhi
- British Council Library, Kolkata

Current title of Database subscribed during the year: 07

- American Library
- British Council Library (More than 14000 e-journals & 83000+ e-books)
- DELNET
- IndiaStat.Com
- J-Gate (More than 32000 e-journals)
- OLDO (Oxford Language Dictionary Online)
- Sage Research Method Online

Library Members *:

● Total Registered Members	6807
● Total numbers of Readers visited at Reading Room	19092
● Total numbers of Readers visited at Periodical Section	6627
● Total numbers of Readers visited at Reference Section	12378
● Total numbers of Readers entered into the stack room	16191
● Total users access the library resources through home page (172.16.2.2)	6579

Chap-V

Temporary Members / Scholars Visited during the period :	194
❖ Total No. of days Library used/visited:	2729
● No. of Persons: International	18
[UK - 1, USA - 3, Japan - 5, Mexico - 1, France - 1, Canada - 4, Korea - 2, Hungeri - 1]	
● No. of days used/visited:	170
● No. of Persons: West Bengal:	145
❖ No. of days used/visited:	2369
● No. of Persons: Other States	31
❖ No. of days used/visited:	190

Library Hours:

a. All days except weekly holidays (Wednesday & Sunday):	7 a.m. to 8 p.m
b. Wednesday and Sunday:	10 a.m. to 5 p.m
c. Other holidays:	Remains closed
d. Total No. of days Library open: (a) 247 days + (b) 77 days =	324 days

Books Classified & Catalogued and added/modified to the Catalogue database by Central Library by using library software (LibSys) during 2012 -13:

Total processed (with LibSys) books (Newly purchased and Retrespective conversion)	5892
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14. Braille Unit:

No. of User	No. of days visited	Used time (in hour)	Document read & scan
07	108	207.30	36

Braille Unit opened during August 2012

Recovery of Library Resources:

Overdue notice issued to 328 Members for 909 Book titles
 Books returned by the members - 235 Book titles
 Books replaced by the members - 15 Book titles
 Cost Realized amounting to Rs. 71,690/- for 87 Books

Publication:

Library Bulletin - 'Current Periodicals-2012' for Visva-Bharati subscribed Journals.

Acquisition Section: -

Number of books purchased subject wise: -

Subject	Number
Languages	1248
Humanities and Social Sciences	381
Science	63
Home Science	-
Computer Science	38
Commerce & Management	234
Education	-

Engineering & Technology	-
Medical Sciences	-
Agriculture Sciences	06
Veterinary Sciences	-
Law	81
Others (Music, Arts, Religion etc.)	160
Total: -	2211
Periodical Section: -	
Foreign Journals	118
Indian Journals (including Magazines)	115
Magazines	30
News Papers	29
Total subscribed for Central Library: -	292
Circulation Section: -	
Category	Teacher
Scholar Student	Staff
Others Grand Total	
Library Users	573
4654351	756
1126807	

Users visit at different sections of Central Library (month-wise):

Month	Reading Room	Periodical Section	Stack Room	Reference Section
April-2012	2648	285	1080	1650
May-2012	1020	138	480	681
June-2012	824	117	511	663
July-2012	1078	276	1846	951
August-2012	1796	634	2632	1716
September-2012	3112	1025	2234	1983
October-2012	1562	540	1148	1320
November-2012	1248	586	1025	1639
December-2012	1168	540	774	1209
January-2013	714	680	1743	666
February-2013	1336	888	1299	*
March-2013	2586	918	1419	*
Total	19092	6627	16191	12378

Chap-V

Cataloguing Section

Volumes catalogued : Purchased books 2012-13	Volumes pending to catalogued: Purchased books 2012-13	Volumes catalogued : Gift books 2012-13	Volumes pending to catalogued : Gift books 2012-13	Retrospective conversion	Total no. of books catalogued during 2012-13
1563	589	720	942	3609	5892

Information related to Sectional Libraries:

Sectional Libraries	Total books as on 31.03.13	Number of books accessioned		Periodicals Titles		Books Issued & Returned	Reference services	Total No. of Users
		Purchased	Gift	Subscribed	Gift			
Cheena-Bhavana	45147	—	79	14	02	3619	4345	113
Siksha-Bhavana	15676	313	—	16	—	5781	297	3222
Patha-Bhavana	34415	—	22	18	02	18972	8220	1600
Darshan Sadan *	13555	74	—	16	—	9372	10132	254
Hindi-Bhavana	35223	—	94	09	38	2119	498	271
Sangit-Bhavana	35053	07	10	12	—	9076	4444	379
PSV	52087	229	09	12	04	3680	2750	558
Vinaya-Bhavana	20597	—	26	12	02	6915	4006	673
Rabindra-Bhavana	47668	218	128	27	18	—	1678	—
PSB	47529	823	06	87	100	38440	12854	935
Kala-Bhavana	16416	—	54	05	05	3700	1109	466
Siksha-Satra	24597	—	18	24	03	7994	6154	856
TOTAL	388963	1664	446	252	174			

Chapter-6

VISVA-BHARATI

Santiniketan

**Status / physical progress of ongoing projects initiated during XI Plan period
(As on 31.03.2013)**

Sl. No.	Name of the Project	Execution	Remarks
1	Extension of Vidya Bhavana Complex and Construction of Bhasa Bhavana	CPWD	Work in progress
2	Construction of Building for Integrated Science Course (Siksha Bhavana)	CPWD	Work in progress
3	Construction of Building for Kala-Bhavana & Sangit Bhavana Repair & renovation of Sangit Bhavana Stage	CPWD	Work in progress Work in progress
4	Remodelling of Silpa Sadana	CPWD	Work in progress
5	School Extension of additional one floor on the newly constructed Girls' Hostel for Patha Bhavana	CPWD	Completed
	Repairs at Patha-Bhavana	Engg. Dept.	Work in progress
	Repairs at Siksha Satra	Engg. Dept.	Work in progress
	Construction of building for Siksha Satra	Engg. Dept.	Work in progress
6	Construction of Building for PCK, Social Work & REC	CPWD	Work in progress
7	Construction of Sports Complex and Construction of Building for Education & Physical Education	CPWD	Work in progress
8	Construction of Building for PSB	CPWD	Work in progress
9	Construction of rooms & repair / renovation of buildings		
	Chemistry	CPWD	Work in progress
	Physics	“	Work in progress
	Mathematics	“	Work in progress
	Zoology	“	Work in progress
	Botany	Eng. Dept.	Work in progress
	EES	Eng. Dept.	Work in progress
	PRO	Eng. Dept.	Work in progress
	Anthropology	Eng. Dept.	Wok in progress
	Sriniketan Hospital	Eng. Dept.	Work in progress
	Siksha Bhavana Stage	Eng. Dept.	Work in progress

Ch-VI

10	Non-Language Departments of Vidya Bhavana		
	Expansion of Dept. of Philosophy & Religion	Eng. Dept.	Work in progress
	Anti Termite Treatment	CPWD	Completed
	Construction of Building for Social Science/Non-Language Dept. of Vidya Bhavana & Museum of AIHC&A	CPWD	Work in progress
11	Health		
	Up-gradation of Medical Facility (including ICCU) at P.M.H.	CPWD	Work in progress
12	Library		
	Renovation of Central Library & Construction of 2 nos. toilet	CPWD	Work in progress
	Extension of Central Library	CPWD	Work in progress
	Extension of another floor to the building for Integrated Science Course to accommodate Siksha Bhavana Library	CPWD	Work in progress
	Books & Journals	Library	Work in progress
13	Student Amenities		
	Construction of Girls Hostel	CPWD	Work in progress
	Construction of Boys Hostel (SC)	CPWD	Work in progress
	Canteen / Toilet Block	CPWD & Engg. Dept.	Work in progress
	Cycle Stand	Engg. Dept.	Work in progress
	Sports Infrastructure	Sports Board	Work in progress
	Repairing of student hostel	Engg. Dept.	Work in progress
14	ICT		
	Computer Centre & Other Sections	Computer Centre	Work in progress
15	Natya Ghar - CD		
	Electrification of Natyaghar	CPWD	Work in progress
	Renovation of Natyaghar- Phase-II (Acoustics & Interior Works)		Work in progress
16	Guest House - CD		
	Renovation of Guest Houses	Engg. Dept.	Work in progress
17	Augmentation of Electricity Supply and LT Connection with Dedicated Feeder for the new buildings during Xth & XIth Plan period - CD	Engg. Dept./ CPWD	Work in progress

18	Installation of addl. Sub-Stations for new building and Pump Houses - CD	Engg. Dept	Work in progress
19	Boundary Wall & Fencing - CD Construction of Boundary walls at various locations of the campus - CD	Engg. Dept.	Work in progress
20	Replacing and repairing of damaged over-head water tanks at various locations - CD	Engg. Dept.	Work in progress
21	11th Plan water supply scheme -CD Construction of over head tanks for the new buildings for the new buildings constructed under X & XI Plan - CD	PHED	Work in progress
	Sinking of deep Tube Well for the new buildings - CD	PHED	
	Revamping of water supply distribution system (laying of C.I. pipe) - CD	PHED	
	Chlorine dosing & Iron arrester - CD	PHED	
22	Projects under Campus Development		
	Roads	CPWD	Work in progress
	Beautification / Gate	CPWD	Work in progress
23	Construction of Quarters - CD	CPWD	Work in progress
24	Roof Treatment of Academic Buildings - CD	Engg. Dept.	Work in progress
25	Extension of Administrative Building - CD	Engg. Dept.	Work in progress
26	Construction of Drains - CD	Engg. Dept.	Work in progress
27	Completion of 10th Plan water supply Scheme - CD	CPWD & Engg. Dept.	Work in progress
28	Restoration of water bodies and other miscellaneous - CD	Estate	Work in progress
29	Equipment		
	Different Departments	Departmentally	Work in progress
	ICCU & Lang Lab	CPWD	Work in progress
30	Others for Heritage Items		
	RB, KB-Museum upgradation, Restoration, Preservation etc.	RB	Work in progress
	Development of Sriniketan Area	Engg. Dept. CPWD	Work in progress Work in progress
	Renovation / restoration / const. etc. works at core Ashrama area (Patha-Bhavana, Kala-Bhavana, Sangit Bhavana, etc.)	Asst. Engg., TMI	Work in progress
31	Furniture, Fixture etc.		
	Different Departments	Departmentally	Work in progress
	Patha Bhavana and other	CPWD & Dept.	Work in progress

Ch-VI

	11th Plan Bldg	CPWD & Silpa Sadana	
	ICCU, Lang Lab	CPWD	
	Rabindra Bhavana	Departmentally	
	Kala Bhavana	Departmentally	
	IGCNI	Departmentally	
	AIHCA	Departmentally	
	Ashrama	Departmentally	
32	Extension Activities		
	Different Departments	Departmentally	Work in progress
33	Staff & Other Recurring Expenditure		
	Staff Salary		Work in progress
	Different Departments	Engg. Depts.	Work in progress
	Execution of minor repair works (civil, electrical, water supply, instrumentation, computer & peripherals etc.) departmentally.	Engg. Dept.	Work in progress
	Repair of the erstwhile residence (Nirala) of Prof. A.K. Das Gupta at 33, Purbapalli	Engg. Dept.	Work in progress
	Repair work at Siksha Bhavana (as reported by the University Engineer in the PB meeting dt.14.1.12)	Engg. Dept.	Work in progress
	Meetings (selection for OBC posts & others)	Meeting Section	Work in progress
	Establishment of Point of Presence of National Knowledge Network and Gigabit Campus LAN	Computer Centre	Work in progress
	Repair work of Natya Ghar (fencing at front and back, temporary fencing for providing passage of vehicles in connection with ongoing construction work of Sangit-Kala building, gardening at front) to be carried out by the Engg. Dept.	Engg. Dept.	Work in progress
	Minor repairing and face lifting of buildings surrounding the area of Central Office	Engg. Dept.	Work in progress
	Repair work of Natya Ghar (interior flooring, interior wall finishing), to be carried out by CPWD	CPWD	Work in progress
	Repairing of toilets at hostels of Vidya Bhavana Boys' hostels	CPWD	Work in progress
	Repairing of the depts. of Padma Bhavana including dept. of History	Engg. Dept.	Work in progress

	Repairing of toilets at various student hostels	CPWD	Work in progress
	Repairing (including civil and electrical) works at Ratankuthi, International, Purbapalli and Sriniketan Guest Houses	Asst. Engg. TMI	Work in progress
	Repair works of Granthan-Vibhaga (Publishing dept.) Building, Kolkata	CPWD	Work in progress
34	Additional Grant for Campus Development under XI Plan Grant		
	Campus Beautification	CPWD	Work in progress
	Refurbishing of Central Administrative Building	CPWD	Work in progress
	Repair of various buildings of the campus	CPWD	Work in progress
	Repair of the official residence of Upacharya (Purbita)	Engg. Dept.	Completed
	Repairing work at Vice-Chancellor's office building (ground and 1st floor)	Engg. Dept.	Completed
	Laying underground electrical cable throughout the campus	WBSEDCL	Work in progress
35	Accumulated interest (OBC & XI Plan GD, XI Plan M.S) as allocated by the PB in its meeting dt.14.01.12		
	Leveling of Vinay Bhavana Ground	CPWD	Work in progress
	Construction of toilet blocks at various student hostels	CPWD	Work in progress
	Beautification and plantation along the newly constructed boundary wall TMI boundary wall	Asst. Engg., TMI	Work in progress
	Electrical outdoor lights/garden lights towards augmentation of security in the surrounding area	WBSEDCL	Work in progress

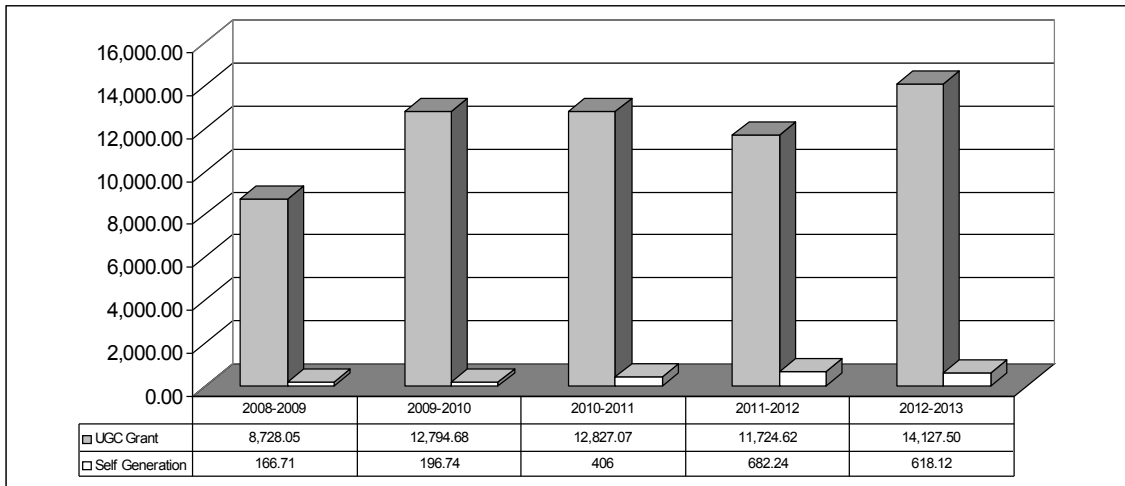
N.B.: CD stands for Campus Development.

UNIVERSITY FINANCE

Comparative Expenditure Statement for the five years (Non-Plan)

Head of A/C	Actual 2008-2009 Rs. In lakhs	Actual 2009-2010 Rs. In lakhs	Actual 2010-2011 Rs. In lakhs	Actual 2011-2012 Rs. In lakhs	Actual 2012-13 Rs. In lakhs
RECEIPTS :					
UGC Grant	8728.05	12794.68	12827.07	11724.62	14127.50
Self Generation	166.71	196.74	406.00	682.24	618.12
TOTAL :	8894.76	12991.42	13233.07	12406.86	14745.62
PAYMENTS :					
Pay & Allowance	6239.68	8939.48	8200.02	8602.36	9511.17
Pension & Retirement Benefits	2064.43	3120.73	2963.98	3193.90	3804.08
Non-Salary Expenditure	801.92	724.31	900.87	941.29	1531.67
TOTAL :	9106.03	12784.52	12064.87	12737.55	14846.92

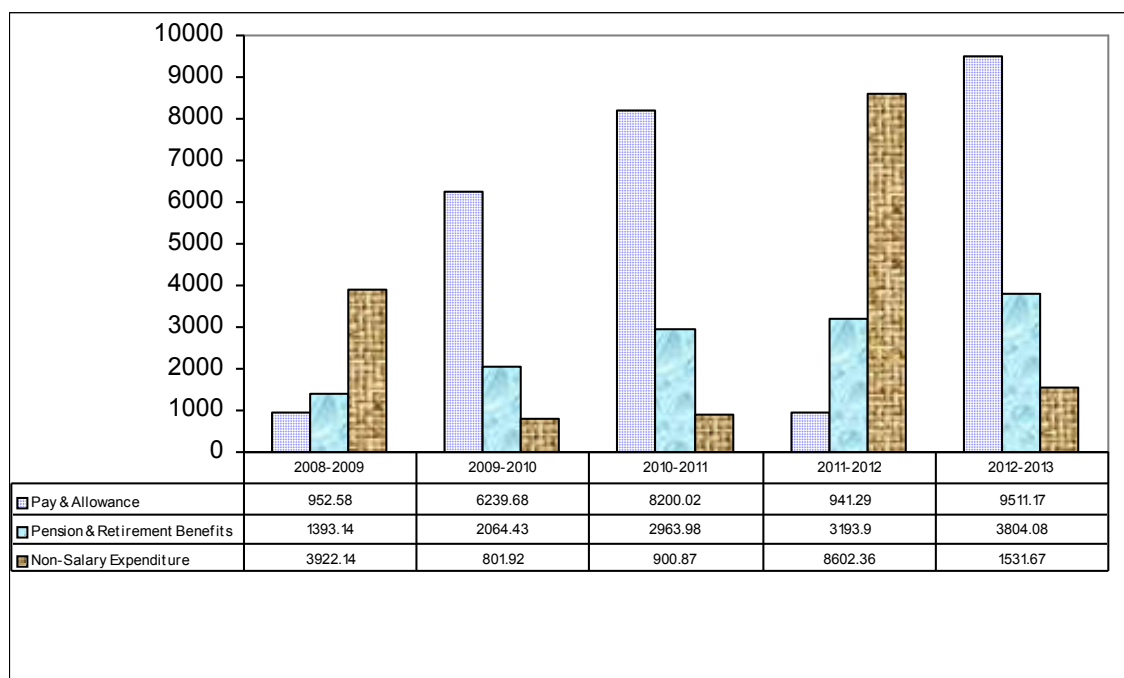
Contribution of the UGC & Self Generation



Fund Non-Plan (Maintenance Grant Received from UGC during The Financial Year 2012-2013)

Particulars	Amount (Rs.) in Lakhs
1. Advance	2370.12
2. 1st. Installment	2088.05
3. 2nd Installment	159.80
4. 3rd Installment	913.16
5. 4th Installment	158.75
6. 5th Installment	3161.01
7. 6th Installment	2973.24
8. Final Installment	2303.37
Total	14,127.50

Composition of Non-Plan Expenditure



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Ten years' Financial Performance at a Glance (Non-Plan)

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Opening Balance	869.67	1,358.88	840.53	-344.45	-229.37	-59.66	-482.18	-275.28	892.92	562.43
Grants from UGC	4,871.43	4,151.14	4430.66	5657.71	6207.82	8759.82	12794.68	12827.07	11724.62	14127.50
Self generation	190.73	181.65	123.58	146.48	230.05	157.26	196.74	406.00	682.24	618.12
GROSS Inflow	5,062.16	4,332.79	4554.24	5804.19	6437.87	8917.08	12991.42	13233.07	13299.78	
FUNDS Available	5,931.83	5,691.67	5394.77	5459.74	6308.50	8857.42	12509.24	12957.79	13299.78	15308.05
Actual Expenditure	4,572.95	4,851.13	5739.22	5689.11	6268.16	8998.25	12784.52	12064.87	12737.55	14846.92
Closing Balance	1,358.88	840.54	-344.45	-229.37	-59.66	-140.83	-275.28	892.92	562.23	461.13

Chapter-8

Ordinance & Ammendments/Ratifications:

- (1) Tagore Memorial Institute have been constituted, consisting of the Uttarayana Complex, the Ashrama and Rabindra-Bhavana along with the Indira Gandhi Centre for National Integration [with a new direction by its transformation into Indira Gandhi Centre for Visiting Scholars (IGCVS) for international understanding and national integration] under the administration by a panel headed by the Director of the Tagore Memorial Institute.
- (2) Music Board of Visva-Bharati (ii) Kalanukramik Rabindra Rachanabali Prakalpa.
- (3) Rejuvenation of Granthana-Vibhaga Management Committee.
- (4) Turning of Indira Gandhi Centre for National Integration to an Institution of International Understanding and National Integration of the University.
- (5) Amendment of rules relating to re-evaluation of answer-scripts of the University;
- (6) Ratification of the action taken by the Vice-Chancellor with regard to co-option of Professor-in-Charge, Examination Section as invitee on the Institute Boards of the Bhavanas/Vibhaga of the University.
- (7) Accepted in principle regarding proposal of Ramji Pandey, Under Secretary to the Govt. of India, MHRD, Department of Higher Education, New Delhi (F.No.20-28/2012/Desk U dated 27-04-2012) for Educational Education Programme between India and Mozambique on cooperation in the field of Education.
- (8) Introduction of M.Phil. Course at Sangit-Bhavana.
- (9) Re-introduction of 2-Year Certificate Course in Rabindra-Sangit in the Granthan Vibhaga, Kolkata.
- (10) Awarding Emeritus Professorship of Visva-Bharati to Prof. Samir Bhattacharya.
- (11) Approval of the reporting of the decision of the Upacharya regarding retention of "minimum of 55% marks" as proposed at Clause 1(i) of D.Litt./D.Sc. Ordinance of the University.
- (12) Amendment of Pre-Degree Examination Ordinance relating to re-distribution of marks in Pre-degree Examination of the University.
- (13) Amendment of Clauses 3(a) and 9 of the School Certificate Examination Ordinance that came into force from 2012 relating to classification of results.
- (14) MOU between Visva-Bharati and Rabindranath Tagore Institute, Mauritius.
- (15) Change in ordinance of M.Sc.(Ag.) courses.
- (16) Modification of syllabus of Integrated Science Course.
- (17) Modifications of the syllabus of Computer Science in the Pre-Degree course of Patha-Bhavana and Siksha-Satra.
- (18) Ordinances and syllabi of the courses of Kala-Bhavana.
- (19) Change in nomenclature of the Department of Adult, Continuing Education and Extension (REC) to "Department of Lifelong Learning and Extension".
- (20) Re-structuring of the allied courses of Botany.
- (21) Re-structuring of the allied courses of Environmental Studies.
- (22) Creation of two seats under supernumerary quota in Visva-Bharati for the students from the state of Jammu & Kashmir.
- (23) Memorandum of Understanding between Institute of Korean Literature Studies, Dongguk University and Indira Gandhi Centre, Visva-Bharati.
- (24) Modification of ordinances in respect of paper setting including moderation in the Under Graduate and Post Graduate Courses of the University under semester system.
- (25) Instituting a Tagore-Tan Yunshan Chair in Comparative Civilisational Studies jointly by Institute of Chinese Studies & Visva-Bharati.
- (26) Appointment of Professor Kalyan Kumar Bagchi as Emeritus Professor in the Department of Philosophy & Comparative Religion.
- (27) Introduction of B.F.A. and M.F.A. in Ceramics under Kala-Bhavana.
- (28) Revised list of Holidays of the University from the Academic Session 2012-2013 (effective from 1st July, 2012 to 30th June, 2013)

NEW APPOINTMENTS

Sl.No.	Date of joining	Incumbent	Position
1.	01.07.2012	Sri Sukumar Das	Professional Asst., Central Library
2.	01.07.2012	Sri Dilip Kr. Sutradhar	Head Mistry, Silpa-Sadana
3.	02.07.2012	Smt. Maitri Barman	Supervisor, Leather Craft, Silpa-Sadana
4.	03.07.2012	Sri Swarpendu Biswas	Computer Asst.
5.	03.07.2012	Smt. Manasi Santra	Semi-Professional Asst., Central Library
6.	03.07.2012	Smt. Gita Singha	Matron, University Hostel
7.	05.07.2012	Sri Sandip Baul	Technical Asst., Kala-Bhavana
8.	09.07.2012	Sri Suman Sarkar	Semi-Professional Asst., Sangit-Bhavana
9.	17.08.2012	Sri Sujit Kujur	Asst. Librarian, Central Library
10.	18.08.2012	Sri Birendra Kumar	Hindi Typist, Hindi Cell
11.	23.08.2012	Sri Raj Mallick	Asst. Registrar, Visva-Bharati
12.	11.08.2012	Ahmed Hussain	Driver, Granthana-Vibhaga
13.	10.01.2013	Dr. Narayan Ch. Sarkar	Asst. Professor, PSB
14.	11.01.2013	Sri Satish Kr. Verma	Asst. Professor, Botany
15.	12.01.2013	Dr. Gireesh. A	Asst. Professor, Integrated Science
16.	03.09.2012	Sri. Rajesh Kumar Shaw	Hindi Translator
17.	27.07.2012	Smt. Gita Mahato	Nurse
18.	06.08.2012	Sri. Avijit Polen	Pharmacist
19.	24.07.2012	Sri. Chanchal Kumar Das	Computer Assistant

Appendix- B

BHAVANA/VIBHAGA (INSTITUTES) OF VISVA-BHARATI & NAME OF THE ADHYAKSHAS (PRINCIPAL)

Name of Bhavanas/Vibhagas	(Head of the Institutes)
Vidya Bhavana	Prof. Onkar Prasad
Bhasa Bhavana	Prof. Rameshwar Prasad Mishra
Siksha Bhavana	Prof. Arun Kumar Ray
Rabindra Bhavana	Prof. Tapati Mukherjee
Kala Bhavana	Prof. Sisir Sahana
Sangeet Bhavana	Prof. Indrani Mukhopadhyay
Vinaya Bhavana	Prof. Sabujkoli Sen
Palli Samgathana Vibhaga	Prof. Amit Hazra
Palli Siksha Bhavana	Prof. Partha Sarathi Munsii
Granthana Vibhag	Dr. Ramkumar Mukhopadhyay
Patha Bhavana	Smt. Bodhirupa Sinha
Siksha Satra	Dr. Jayanta Kumar Bhattacharya

Appendix- C

Functionaries of the University

<i>Paridarsaka</i> (Visitor)	: Sri Pranab Mukherjee, The Honorable President of India
<i>Acharya</i> (Chancellor)	: Dr. Manmohan Singh, The Honorable Prime Minister India
<i>Pradhana</i> (Rector)	: Sri M.K. Narayanan, The Honorable Governor of West Bengal
<i>Upacharya</i> (Vice-Chancellor)	: Prof. Sushanta Dattagupta
Director of Studies, Educational Innovation & Rural Reconstruction	: Prof Sabujkoli Sen
Director, Culture & Cultural Relations:	Prof. Tapati Mukherjee
Director, Physical Edu., Sports, National Services & Student Welfare	: Dr. (Col) Mani Mukut Mitra
Director, Indira Gandhi Centre	Prof. Aruna Mukhopadhyay
Director, Granthana-Vibhaga	: Dr. Ramkumar Mukhopadhyay
Finance Officer	: Sri Atul Prakash Trivedi
Proctor	: Prof. Samit Roy
Registrar	: Dr. D. Gunasekaran
Controller of Examination	: Prof. Sandip Basu Sarbadhikary
Deputy Registrar	: Sri Ajit Mondol
Deputy Registrar (Administration)	: Dr. Sanjay Ghosh
Deputy Registrar (SC/ST Cell, Incharge of Academic & Res.)	: Dr. Prashanta Meshram
Deputy Registrar	: Dr. Debasis Chakraborty
Deputy Registrar	: Sri Debasis Dutta
Deputy Registrar	: Sri Soumendra Sen
Deputy Registrar	: Sri Rajat Roy
Deputy Registrar	: Sri Gouranga Dutta
Deputy Registrar & In-charge Estate	: Sri Ashok Kumar Mahato
Deputy Registrar	: Dr. Prajnalankar Bhikshu
Assistant Registrar (Academic & Res)	: Dr. Satyanarayan Bhattacharya
Assistant Registrar (Examination)	: Sri Prasanta Kumar Ghosh
Assistant Registrar-cum-C.S.to V.C	: Smt. Shyamala Roy
Assistant Registrar	: Sri Tanmay Nag
Assistant Registrar	: Sri Raj Mallick
Assistant Registrar	: Sri Daibakinandan Das
Assistant Registrar	: Sri Moley Sutradhar
Assistant Registrar	: Sri Rajiv Khalkho
Manager, Santiniketan Press	: Sri Abhijit Sengupta
Accounts Officer	: Sri Saugata Chattopadhyay
Assistant Accounts Officer, Sriniketan	: Sri Chittaranjan Saha
Assistant Accounts Officer, Santiniketan	: Sri Biswajit Das
Prof. In-charge, Central Library	: Prof. Monoranjan Pradhan
Deputy Librarian	: Dr. Nimai Chand Saha
Computer Centre In-charge	: Dr. S.N. Ojha
University Engineer	: Sri Amit Sengupta
Chief Medical Officer	: Dr. Sasanka Sekhar Debnath

HEAD OF THE DEPARTMENT

Department of Bengali	Prof. Sudip Basu
Department of English and Other Modern European Language	Dr. Somdatta Mondal
Department of Hindi	Prof. Chakradhar Tripathi
Department of Sanskrit, Pali and Prakrit	Dr. Lalita Chakraborty
Department of Odia	Prof. Sabita Pradhan
Department of Arabic, Persian, Urdu and Islamic Studies	Dr. Wasif Ahmed
Department of Indo-Tibetan Studies	Dr. Sanjib Kumar Das
Department of Japanese Studies	Dr. Gita A. Keeni
Department of Chinese Language and Culture	Dr. Avijit Banejee
Department of Economics and Politics	Prof. Mamata Roy
Department of History	Prof. Bhaskarjyoti Basu
Department of Ancient Indian History, Culture & Archaeology	Dr. Bikash Mukherjee
Department of Geography	Prof. Guruprasad Chattopadhyay
Department of Philosophy and Comparative Religion	Dr. Sirajul Islam
Department of Anthropology	Prof. Onkar Prasad
Department of Physics	Prof. Taraprasad Chattopadhyay
Department of Chemistry	Prof. Bhabatosh Mondal
Department of Mathematics	Prof. Swapan Raha
Department of Zoology	Prof. Santi Prasad Sinhababu
Department of Botany	Prof. Nirmalya Banerjee
Department of Statistics	Prof. Kashinath Chatterjee
Department of Computer and System Science	Prof. Balaram Bhattacharya
Centre for Mathematics Education	Prof. Simal Kumar Samanta
Dept. of Bio-technology	Prof. Sibaprasad Adhikari
Dept. of Integrated Science Education & Research Centre	Dr. Susanta Ghosh
Dept. of Environmental Studies	Prof. Shibani Chaudhury
Department of Sculpture	Shri Sutanu Chatterjee
Department of Graphic Art	Shri Arpan Mukherjee
Department of Painting	Dr. Arkapriya Majumdar
Department of Design	Sri Goutam Das
Department of History of Art	Dr. Sanjay Kumar Malik
Department of Hindustani Classical Music	Smt. Kabiri Kar (Basu)
Deptt. of Rabindra Music, Dance & Drama	Prof. Dr. Indrani Mukhopadhyay
Department of Education	Dr. Kahnu Charan Sahoo
Department of Physical Education	Dr. Ashok Kumar Goon
Department of Silpa Sadana	Shri Shantanu Kumar Jena
Palli Charcha Kendra (Centre for Social Studies & Rural Development)	Dr. Santanu Rakshit

Appendix- D

Rural Extension Centre (REC)
Department of Social Work
Department of Agronomy, Soil Science and
Agricultural Chemistry, Agriculture
Engineering, Plant Physiology and Animal
Science (ASEPAN)
Department of Crop Improvement,
Horticulture & Agricultural Botany(CIHAB)
Department of Agricultural Extension,
Agricultural Economics & Agricultural
Statistics (EES)
Department of Plant Protection (PP)
Centre for Journalism & Mass Communication
Centre for Buddhist Studies
Womens Studies Centre

Dr. Rafiqul Islam
Prof. A.K. Sarkar

Prof. S.K. Pyne

Dr. Amitabha Paul

Prof. Debasis Bhattacharya

Dr. Hirak Chatterjee

Dr. Mousumi Bhattacharya

Dr. Sanjib Kr. Das

Prof Manju Rani Singh

Appendix-E

ACADEMIC STAFF

Bhasha-Bhavana Bengali

N a m e

Qualification

Specialization

Professor

Mrs. Alpana Roy

M.A., B.Mus, Ph.D

Tagore Literature, Interdisciplinary
Study of Literature and Other Art

Mrs. Alibha Dakshi

M.A., Ph.D

Linguistics

Mrinal Kanti Mandal

M.A., Ph.D

Modern Bengali Fiction

Sudip Basu

M.A., Ph.D

Bengali Literary Criticism,
Saratchandra, 20th Century
Bengali Literature & Culture

Associate Professor

Amal Kumar Pal

M.A., B.Ed., Ph.D

Bengali Poetry, Rabindranath

Miss. Sumita Bhattacharya

M.A., Ph.D

Bankimchanra, Modern

Nirmal Kumar Mandal

M.A., Ph.D

Bengali Literature

Mrs.Aparna Roy (Bhattacharya)

M.A., Ph.D

Old and Medieval Literature

Abhra Bose

M.A. Ph.D

Old and Medieval Literature

Manabendranath Saha

M.A., M.Phil,Ph.D

Tagore Literature, Linguistics

Rita Modak

M.A., Ph.D

Modern Bengali Poetry, Film Studies

Atanu Sasmal

M.A., Ph.D

Bengali Fiction, Women's studies

Modern Bengali Fiction, Mediavel Lit.

Assistant Professor

Milan Kanti Biswas

M.A., B.Ed.Ph.D

Folk Literature & Philosophy

Manabendra Mukhopadhyay

M.A., Ph.D

Modern Bengali Literature & Criticism,

Biswajit Ray

M.A., Ph.D

Tagore Literature

Payel Mukherjee

M.A

Linguistics Nineteenth Century

Shreela Basu

M.A., Ph.D

Semiotics & Dramatology

Tagore Literature

English and Other Modern European Languages

Professor

Abhijit Sen

M.A., Ph.D

Renaissance Studies, Theatre Studies, Tagore

Mrs. Sukla Basu (Sen)

M.A., Ph.D

Renaissance Studies, African

American Literature

Goutam Ghoshal

M.A., Ph.D., D.Lit.

Indian Writing in English, 19th C American
& British lit.; Tagore

Somdatta Mondal

M.A., M.Phil., Ph.D

American/Post colonial Literature,

Associate Professor

Debarati Bandopadhyay

M.A., Ph.D

19th C. New Literatures in English

Aruna Mukherjee

M.A, Ph.D

Russian Literature

Appendix- E

N a m e	Qualification	Specialization
Nilanjan Chakraborti	M.A., Ph.D.	Enlightenment Travel Literature
Tanuka Das	M.A. Ph.D.	20th C. Poetry, Ind. Writing in Eng.
Indrani Das	M.A., Laurea, Ph.D.	Medieval History and Italian Studies, Translation Studies.
Amrit Sen	M.A., M.Phil., Ph.D.	Eighteenth Century Studies, Post Colonial Studies, Travel Writing : Tagore
Swati Ganguly	M.A., Ph.D.	Renaissance Studies, Theatre studies, Gender Studies, Translation & Tagore.
Sr.Asst. Professor		
Romit Roy	M.A., M.Phil.	German Literature, Culture and Music Theodore Adorno..
Sudev Pratim Basu	M.A.Ph.D	Nineteenth Century Studies, Postcolonial Studies, Popular Fic.
Saurav Dasthakur	M.A., M.Phil. Ph.D	20thC. Literature Postcolonial Studies, Literary Theory.
Dipankar Roy	M.A., M.Phil.	Postcolonial Literature and Theory
Ananya Duttagupta	M.A., M.Phil.	Renaissance Studies
Asst. Professor		
Eleonara Caturegli Biswas	M.A., Laurea Ph.D.	Italian Studies, Theatre translation studies
Topu Biswas	M.A. M.Phil, Ph.D.	20th C Lit; American Lit; Indian Lit in English
Nilanjana Bhattacharya	M.A, Ph.D	Comparative Lit; Indian Lit; Afro-American Lit; Latin American Lit
Soma Mukherjee	M.A. M.Phil, Ph.D.	Comparative Lit.; Bhasha Lit. Postcolonialism; Feminism
<u>Arabic, Persian, Urdu and Islamic Studies</u>		
Professor		
Niaz Ahmed Khan	M.A., Ph.D.	Modern Persian Language, Literature & Translation
Associate Professor		
Wasif Ahmad	M.A., Ph.D.	Persian Short Stories
Asst. Professor		
Md. Faique	M.A., Ph.D.	Modern Persian Drama
Aurangzeb Azmi	M.A., Ph.D.	Arabic Language & Literature
Md. Atiqur Rahman	Ph.D	Modern Persian Language, Literature & Translation

Appendix- E

N a m e	Qualification	Specialization
<u>Chinese</u>		
Professor		
Artatratna Nayek	M.A., Ph.D.	Contemporary Chinese Politics
Jayeeta Ganguly	M.A, Ph.D. Dip. in Japanese	Chinese Buddhism
Associate Professor		
Avijit Banerjee	M.A.Ph.D,	Chinese Language,Chinese Politics
Asst. Professor (Gr.II)		
Smt. Tandrima Pattrea	M.A	Chinese Language & Literature
Smt. Hem Kusum	M.A.M.Phil.	Modern Standard Chinese language
Chiranjib Sinha	M.A	Chinese Language
Asst. Prof.		
Debdas Kumdu	M.A	Chinese Language Lit. & History
Sri Atreya Bhattacharya	M.A	Chinese Language
<u>Hindi</u>		
Professor		
Harish Chandra Mishra	M.A., Ph.D	Modern Literature
Rameshwar Prasad Mishra	M.A., Ph.D	Medieval & Modern Literature
Mrs. Manju Rani Singh	M.A., Ph.D	Medieval & Modern Literature & Poetics
Mukteshwarnath Tiwari	M.A., Ph.D	Modern literature & Criticism
Chakradhar Tripathi	M.A. Ph.D	
Associate Professor		
Shakuntala Mishra	M.A., Ph.D	Modern literature & Criticism, Translation
Shailendra Kumar Tripathi	M.A., Ph.D	Modern literature & Criticism
Asst. Professor		
Subhash Chandra Roy	M.A., Ph.D	Modern literature & Criticism
Jagadish Bhagat	M.A., Ph.D	Modern literature & Criticism
Sri Arjun Kumar		
<u>Indo-Tibetan Studies</u>		
Associate Professor		
Ms. Anandamayee Ghosh	M.A., Ph.D.	Tibetan Language/Buddhist Vinaya
Sanjib Kimar Das	M.A, Ph.D	Tibetan Language & Buddhist Philosophy

Appendix- E

N a m e	Qualification	Specialization
Asst. Professor Shedup Tenzin Prakriti Chakraborty Sonam Zangpo	M.A, M.Phil.Ph.D M.A.(Double), Ph.D Acharya Ph.D	Tibetan Buddhism Tibetan Language & History of Tibet Tibetan (Bhoti)
Japanese Associate Professor Gita A Keeni	M.A (Philosophy) M.A (Japanese History)	Philosophy, Japanese Literature (Miwazawa Kenji), Cultural & History
Asst. Professor Ajoy Kumar Das	M.A	Japanese Language & Literature (Hori Tatsuo)
Odia Professor Kailash Chandra Pattanaik Sabita Pradhan Manoranjan Pradhan	M.A., Ph.D M.A., M.Phil., Ph.D M.A., Ph.D	Folklore/Fiction Linguistics, Fiction Comp.Literature, Fiction, Editing and textual criticism
Asst. Professor Smt. Pramila Patulia Sarat Kumar Jena Rabindra Kumar Das Indramani Sahoo	M.A.M. Phil.Ph.D M.A., L.L.B, Ph.D M.A., Ph.D. M.A., M.Phil.	Folk Literature Modern Literature & Cultural Study Linguistic & Modern Literature Linguistics & Fiction
Sanskrit, Pali & Prakrit Professor Narottam Senapati Mridula Ray Arun Kumar Mondal Nirad baran Mandal J.R. Bhattacharya	Vidya-Varidhi (Ph.D.) M.A., Ph.D M.A., Ph.D M.A., Ph.D M.A., M.Phil.Ph.D	Nyaya, Grammar Poetics, Grammar, Literature Poetics, Grammar, Prakrit Indian Philosophy, Pali Prakrit, Sanskrit ,Philosophy & Jaina Cannons
Associate Professor Lalita Chakraborty Aruna Ranjan Mishra Niranjan Jena	M.A., Ph.D M.Phil, Ph.D M.A., Ph.D	Nyaya Vaisesika Literature Veda & Literature
Asst. Professor Harekrushna Mishra Sanjoy Kumar Mondal Gargi Bhattacharya Laxmidhar Malik Pritilaxmi Swain Ram Pramol Kumar	M.A.,M.Phil., Ph.D M.A.Ph.D M.A.,M.Phil.Ph.D M.A.M.Phil., Ph.D M.A., M.Phil., Ph.D M.Phil, Ph.D	Veda, Religion Indian Philosophy & Pali, Vedanta/Manu Scriptology Purans & Epics Vyakarana Literature

Appendix- E

N a m e	Qualification	Specialization
Santali		
Asst. Professor		
Dhaneshwar Majhi	M.A.,Ph.D	Folk Literature
Ramu Hembram	M.A. NET	Santhali
Tapan Soren	M.A. NET	Santhali
Dukhia Murmu	M.A.,NET, Ph.D	Bibliography
Sanat Hansda	M.A. NET	Folk Literature
Mansaram Murmu	M.A, NET	Poetry
Marathi		
Asst. Professor		
Ranvir Sumedh Bhagwan	M.A.	Marathi
Tamil		
Asst. Professor		
Senthil Prakash. S	M.A., M.Phil.	Tamil
Assamese Language Unit		
Asst. Professor		
Sangeeta Saikia	M.A.Ph.D	Assamese
Vidya-Bhavana		
<u>Ancient Indian History, Culture & Archaeology</u>		
Professor		
Subbiah Ganapathy	M.A., Ph.D.	Early Indian Art History & Early South Indian History
Subrata Chakrabarti	M.A., Ph.D.	Pre-and-Proto History
Arun Kumar Nag	M.A., Ph.D.	Proto-History
Ananda Chandra Sahoo	M.A., Ph.D.	Religion & Early Indian Art History
Associate Professor		
Bikash Mukherjee	M.A., Ph.D.	Religion
Smt. Sina Panja	M.A., Ph.D.	Historical Archaeology
Sarita Khettry	M.A., Ph.D.	Epigraphy and Numismatist
Asst. Professor		
Anil Kumar	M.A., Ph.D.	Social and Economic History
Smt. Bina Gandhi(Deori)	M.A., Ph.D.	Ethno Archaeology
K. Mavali Rajan	M.A., M.Phil, Ph.D.	Social and Economic History
Economics and Politics		
Professor		
Sarbajit Sengupta	M.A., Ph.D.	Industrial Economics, Micro Eco.

Appendix- E

Name	Qualification	Specialization
Madhusudan Ghosh	M.A., Ph.D.,	International Trade, Eco. of Edu. Agri. Eco, Devt. Eco, Macro Economics,
Pranab Kumar Chattopadhyay	Post-Doctoral M.A., Ph.D.	Time Series, Indian Econometrics History of Economics Thought, Environmental Economics, Econometrics
Mamata Roy	M.A., Ph.D.	Indian Political Thought
Associate Professor		
Jagabandhu Saha	M.Stat., Ph.D.	Econometrics & Inventory Theory
Sudipta Bhattacharya	M.Sc., M.Phil., Ph.D.	Agricultural Economics, Monetary Economics, Marxian Economics
Pranab Kanti Basu	M.A., Ph.D.	International Trade, Economic Thought
Santadas Ghosh	M.Sc, MCA, Ph.D.	Econometrics, Env. Economics
Apurba Kumar Chattopadhyay	M.Sc, Ph.D.	Agricultural Economics, Dev. Economics Economics of Planning
Asst. Professor		
Uttam Sikdar	M.Sc., M.Phil.	Statistics & Econometrics, Dev. Economics, Macroeconomics
Biswajit Mandal	M.Sc., M.Phil, Ph.D.	International Economics, Dev. Economet.
Amit Kr. Biswas	M.A. Ph.D.	International Trade, Econometrics
Saumya Chakrabarti	M.Sc., Ph.D, M.Phil.	Advanced Economic Theory, Economics of Marx, International
Achiranshu Acharya	M.Sc.	Environmental & Resource Economics & International Economics
Soumyadeep Chatterjee	M.Sc.	Econometrics, Urban Economics
Biswajit Haldar	M.A., M.Phil.	Indian Economy; Development Economics
Anamika Moktan	M.A	International Trade; Env. Economics
<u>Geography</u>		
Professor		
Mrs. Parbati Nandy	M.A., Ph.D.	Urban Geo, Cartography, Settlement Geo.
Sumantra Mukherjee	M.A., M.Phil., Ph.D.	Resource Geography, Water Resources
Debasish Das	M.A., M.Phil., Ph.D.	Rural Development, Regional Planning, Agricultural Geography
Vibhash Chandra Jha	M.Sc., Ph.D.	Geomorphology, Remote Sensing
Guru Prasad Chattopadhyay	M.A., Ph.D.	Geomorphology, Env. Geography
Gopal Chandra Debnath	M.A., Ph.D.	Industrial Geography
Uma Sankar Malik	M.A., Ph.D.	Fluvial Geomorphology, Regional Planning
Malay Mukhopadhyay	M.A., Ph.D.	Environmental Geography

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N a m e	Qualification	Specialization
Associate Professor Sutapa Mukhopadhyay Manjori Bhattacharjee Gopal Chandra Debnath	M.A., Ph.D. M.A., Ph.D. M.A, M.P.S, MBA, Ph.D.	Geomorphology Geomorphology Population Geography & GIS
Asst. Professor Krishnendu Gupta	M.A., Ph.D.	Applied Geomorphology, Remote sensing & GIS
Bhairu Lal Yadav	M.A, M.Phil.	Population Geography and Demography
History Professor S. Jeyaseela Stephen	M.A., Ph.D.	Maritime History, Archival Studies, Socio-Economic History of Medieval South India
Suchibrata Sen	M.A., Ph.D.	Tribal History with particular reference to the Santals
Sandip Basu Sarbadhikari	M.A., Ph.D.	Medieval India, Maritime History, Peasant Studies with reference to South
Chhanda Chatterjee	M.A., Ph.D.	Economic History of Modern India, Communalism in the Punjab East Asia
Bhaskarjyoti Basu	M.A., Ph.D.	Economic History & Maritime History
Associate Professor Syed Ejaz Hussain	M.A., Ph.D.	Medieval Indian History, Numismatics, Epigraphy
Bipasha Raha (Dutt)	M.A., M.Phil., Ph.D.	History of Modern India, Socio-economic history of Modern Bengal, Socio-economic ideas of Tagore
Dr. Kaushik Roy Deep Kanta Lahiri Chowdhury Smt. Arpita Sen	M.A., Ph.D. M.A., Ph.D. M.A., M.Phil., Ph.D.	Modern Indian History
Asst. Professor Arunava Das	M.A.	Economic History of Modern India, Tourism
Shubayu Chattopadhyay	M.A., M.Phil.	Economic History of Modern India, Maritime History of India
Asst. Professor Pum Khan Pau Sabyasachi Dasgupta	M.A., Ph.D. M.A., Ph.D.	

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N a m e	Qualification	Specialization
<u>Philosophy and Comparative Religion</u>		
Professor		
Sabujkoli Sen (Mitra)	M.A., Ph.D.	Indian Philosophy & Comparative Religion
Somnath Chakraborty	M.A.	Analytic Philosophy, Ethics
Asha Mukherjee	M.A., M.Phil., Ph.D.	Ethics, Logic, Analytic Philosophy, Feminist Philosophy, Jaina Philosophy
Bijoy Kumar Mukherjee	M.A., Ph.D.	Logic, Philosophy of Science
Md. Sirajul Islam	M.A., Ph.D.	Islam, Sufism
Associate Professor		
V. Raman	M.A., Ph.D.	Analytic Philosophy
Ranjan Mukhopadhyay	M.A., M.Phil., Ph.D.	Logic, Philosophy of Logic & Language
George Pattery	M.A. Master of Theology, Doctor of Theology	Philosophy of Religion
Asst. Professor		
Maya Das	M.A., Ph.D.	Indian Philosophy
Anup Barman	M.A., Ph.D.	Indian Philosophy & Theory of Knowledge
Kousik Bhattacharya	M.A., Ph.D.	Philosophy of Science
Tsetan Namgyal	M.Phil., Ph.D.	Buddhist Philosophy
Manjari Chakraborty	M.A., Ph.D.	Philosophy of Science
Gour Hajra	M.A., Ph.D.	Jainism, Buddhism, Philosophy of Religion
Subir Kumar Roy	M.A., M.Phil.	Philosophy of Religion, Philosophy of Language, Logic
Mousumi Roy	M.A., Ph.D.	Sociology and Anthropology of Religion
M.P. Terence Samuel	M.A., Ph.D.	
<u>Education Unit</u>		
Professor		
Tarak Nath Pan	M.Ed., Ph.D.	Psychology of Teaching
Centre for Journalism		
Professor		
Associate Professor		
Biplab Loha Chowdhury	M.A., Ph.D.	Media Management Research & Rural Communication
Mrs. Mousumi Bhattacharya	M.A., Ph.D.	Audience Reseaech, Audiovisual Media. (Radio, TV and Film,) New Media.
Asst. Professor		
Sanhita Chatterjee	M.A.,	Audio-Visual Production

Appendix- E

N a m e	Qualification	Specialization
Anthropology		
Professor		
Manas Ray	M.Sc., M.Phil, Ph.D D.Lit.	Enthnography of Communication/ Rural Communication
Onkar Prasad	M.Sc., Ph.D. M.Phil	Social/Cultural Anthropology
Sr. Asst. Professor		
Arnab Ghosh	M.Sc., Ph.D	Physical
Asst. Professor		
Jyotiratan Ghosh	M.Sc., Ph.D	Physical
Rangya Gachui	M.A., Ph.D	Social-Cultural
Siksha-Bhavana		
Biotechnology		
Professor		
Siba Prasad Adhikary	Ph.D, D.Sc.	Microbiology, Bioentrepreneurship
Associate Professor		
Amit Roy	M.Sc.,Ph.D.	Molecular Biology , Genetic Engineering
Asst. Professor		
Nilanjana Das	M.Sc., Ph.D.	Biochemistry, Bioethics, IPR
Narottam Dey	M.Sc., Ph.D.	Biotechnology
Jolly Basak	M.Sc, Ph.D	Biochemistry, Genomics & Proteomics
Samiran Saha	M.Sc, Ph.D	Immunology, Animal Biotech
Botany		
Professor		
Sudhendu Mandal	M.Sc., Ph.D.	Plant Taxonomy & Aerobiology
Sukanta Kr. Sen	M.Sc., Ph.D.	Microbiology
Samit Ray	M.Sc., Ph.D.	Phycology
Kashinath Bhattacharya	M.Sc., Ph.D.	Palynology & Environmental Biology
Nirmalya Banerjee	M.Sc., Ph.D.	Cytogenetics
Rup Kumar Kar	M.Sc., Ph.D.	Plant Physiology & Biochemistry
Narayan Chandra Mandal	M.Sc., Ph.D.	Mycology & Plant Pathology
Associate Professor		
Subrata Mondal	M.Sc., Ph.D.	Plant Taxonomy
Swadesh Ranjan Biswas	M.Sc., Ph.D.	Molecular Biology
Asst.Professor		
Chowdhury Habibur Rahaman	M.Sc., Ph.D.	Pharmacognosy
Soma Chnnari	M.Sc.,Ph.D.	Pteridology

Appendix- E

Sri Bomba Dam	M.Sc.,Ph.D.	Microbiology
Jnanendra Rath	M.Sc., Ph.D.	Phycology
Adani Lokho	M.Sc., Ph.D.	Angiospern, Taxonomy
Hema Gupta (Joshi)	M.Sc., Ph.D.	Plant Ecology
Surendra Kr. Gond	M.Sc., Ph.D.	Mycology & Plant Pathology
Satish Kr. Verma	M.Sc	Biochemistry

N a m e

Qualification

Specialization

Chemistry

Professor

Uday Sankar Roy	M.Sc., Ph.D.	Inorganic Chemistry
Indranarayan Basumallick	M.Sc., Ph.D.	Physical Chemistry
Dilip Narayan Choudhury	M.Sc., Ph.D.	Organic Chemistry
Asim Kumar Das	M.Sc., Ph.D.,D.Sc.	Inorganic Chemistry

Associate Professor

Swapan Kumar Chandra	M.Sc., Ph.D.	Inorganic Chemistry
Bhabatosh Mondal	M.Sc., Ph.D.	Inorganic Chemistry
Pranesh Chowdhury	M.Sc., Ph.D.	Inorganic Chemistry
Goutam Brahmachari	M.Sc., Ph.D.	Organic Chemistry
Gourab Kanti Das	M.Sc., Ph.D.	Organic Chemistry
Pranab Sarkar	M.Sc., Ph.D.	Physical Chemistry

Asst. Professor

Bijoy Krishna Dolui	M.Sc., Ph.D.	Inorganic Chemistry
Adinath Majee	M.Sc., Ph.D.	Organic Chemistry
B.C. Bag	M.Sc., Ph.D.	Physical Chemistry
D. Mondal	M.Sc., Ph.D.	Physical Chemistry
Nazmin Ara Begum	M.Sc., Ph.D.	Organic Chemistry
Manas Ghosh	M.Sc, Ph.D..	Physical Chemistry
Alakananda Hajra	M.Sc., Ph.D.	Organic Chemistry
Smt. Bula Singh	M.Sc.	Physical Chemistry
Md. Motin Seikh	M.Sc., Ph.D.	Inorganic Chemistry
K. Bhoumik	M.Sc., Ph.D.	Organic Chemistry
Sri Biswajit Dey	M.Sc	Inorganic Chemistry

Environmental Studies

Professor

Smt. Shibani Chaudhury	M.Sc., Ph.D.	Env. Biology & Toxicology
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Associate Professor

Pratap Kumar Padhy	M.Sc., M.Phil., Ph.D.	Env. Sciences
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Asst. Professor (III)

Pulak Kumar Patra	M.Sc., Ph.D.	Earth Sciences
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Asst. Professor (II)

S.Balachandran	M.Sc., M.Phil., Ph.D.	Env. Sciences
Shweta Yadav	M.Sc, Ph.D.	Env. Chemistry

Appendix- E

Mathematics

Professor

Syamal Kumar Samanta
Puspajit Mandal

M.Sc., Ph.D.
M.Sc., Ph.D.

Functional Analysis & Fuzzy Topology
Quantum Mechanics, Atomic &
Molecular Physics & Collision Theory
Fluid Mechanics, Atmospheric Science
Biomathematics

Dulal Pal
Santabrata Chakravarty
N a m e

M.Sc., M.Phil, Ph.D.
M.Sc., Ph.D.
Qualification

Specialization

Swapan Raha

M.Sc., M.Tech, Ph.D.

Adv. Computer Science and Cybernetics/
Bioinformatics

Associate Professor

Prasanta Chatterjee
Prasanta Kumar Mondal
Madan Mohan Panja

M.Sc., Ph.D.
M.Sc., Ph.D.
M.Sc., Ph.D.

Plasma Dynamics, Nonlinear mechanics
Biomathematics
Dynamical Sys., Wavelet Numerical
Analysis, Theory of Diff. Equation
Fluid Dynamics
Complex Analysis
Fuzzy Functional Analysis/Functional
Analysis

Tapas Roy Mahapatra
Dibyendu Banerjee
Tarapada Bag

M.Sc., Ph.D.
M.Sc., Ph.D.
M.Sc., Ph.D.

Asst. Professor

Subhasis Roy
A.K. Bhuniya
Amar Prasad Misra
Kalyan Hansda
Lakshminarayan Guin
Nikhil Paul
Mizanur Rahaman

M.Sc., Ph.D.
M.Sc. Ph.D.
M.Sc. Ph.D.
M.Sc.
M.Sc.
M.Sc.
M.Sc.

Real Analysis
Algebra (Theory of Semigroups)
Plasma Physics
Algebra
Biomathematics
Comp-Science, Modelling in Ecology
Functional Analysis

Physics

Professor

Sudipta Narayan Roy
Samar Kumar Roy
Subrata Chakrabarty
Taraprasad Chattopadhyay
Somenath Chakravorty

M.Sc., Ph. D.
M.Sc., Ph. D.
M.Sc., Ph. D.
M.Sc., Ph. D.
M.Sc., Ph.D.

Nuclear Physics
Cond. Matt. Physics
Particle Physics
Electronics
Astrophysics & Cosmology

Associate Professor

M. Maity
A. Bhattacharya
T.K. Kundu
Pijush Kanti Ghosh
Swapan Mandal
Shreekanta Sil
Mrs. Asmita Sengupta
Bikash Chandra Gupta

M.Sc., Ph. D.
M.Sc., Ph.D.
M.Sc., Ph.D.
M.Sc., Ph.D.
M.Sc., Ph. D.
M.Sc., Ph. D.
M.Sc., Ph. D.
M.Sc., Ph. D.

Particle Physics
Cond. Matt. Physics
Electronics
Particle Physics
Quantum Optics
Cond. Matt. Physics
Cond. Matt. Physics
Cond. Matt. Physics

Asst. Professor

Ms. Aparna. Saha
Arani Chakrabarti

M.Sc, Ph. D.
M.Sc., Ph. D.

Atomic Physics
Cond. Matt. Physics

Appendix- E

N a m e	Qualification	Specialization
S.K. Mandal	M.Sc., Ph.D.	Cond. Matt. Physics
Buddhadev Mukherjee	M.Sc., Ph.D.	Nuclear Physics
Aditya Sow Mondal	M.Sc., JRF	Astro Physics & Cosmology, Q.F.T
Biswajit Pandey	M.Sc., Ph.D.	Astro Physics & Cosmology
Amrita Bandopadhyay	M.Sc., Net	Atomic & Nuclear Spectroscopy, Laser
Biplab Roychoudhury	M.Sc., Ph.D	Relativity, Cosmology
Sudipta Das	M.Sc., Ph.D	Astro Physics & Cosmology
Subhash Chandra Tudu	M.Sc.	X-ray Crystallography
Subhasish Roy	M.Sc.	Radio Physics & Electronics
R.K. Singha	M.Sc. Ph.D	
<u>Statistics</u>		
Professor		
Kashinath Chatterjee	M.Stat., Ph.D.	Design of Experiments
Associate Professor		
Sudhansu S. Maiti	M.Sc., Ph.D.	Reliability Analysis
Asst. Professor		
Soumalya Mukhopadhyay	M.Sc	Biostatistics
Ms. Saran Ishika Maity	M.Sc	Multivariate and Time Series Analysis
Tirthankar Ghosh	M.Sc	Multivariate and Time Series Analysis
<u>Zoology</u>		
Professor		
Arun Kumar Ray	M.Sc. Ph.D.	Fish Biology and Fisheries
Panchanan Nath	M.Sc., Ph.D.	Reproductive Physiology of fish and Fish Endocrinology
Vadakepuram Chacko Joy	M.Sc., Ph.D.	Soil Ecology and Ecotoxicology
Soumen Kumar Maitra	M.Sc., Ph..D.	Environmental Endocrinology
Santi Prasad Sinhababu	M.Sc.,Ph.D.	Parasitology, Nematology and Neurobiology
Santanu Roy	M.Sc., Ph.D.	Ecological Modeling
Associate Professor		
Dipak Kumar Mandal	M.Sc., Ph.D.	Fisheries and Fish Biology
Samar Kumar Saha	M.Sc., Ph.D.	Fish Biology
Ansuman Chattopadhyay	M.Sc., M.Phil., Ph.D.	Radiation Genetics
Larisha M. Lynden	M.Sc., Ph.D.	Parasitology
Asst. Professor		
Sudipta Maitra	M.Sc., Ph.D.	Fish Physiology
Surya Kumar Saikia	M.Sc, Ph.D.	Aquaculture
Rakesh Kundu	M.Sc., Ph.D.	Toxicology
Sutapa Mukherjee	M.Sc., M.Phil, Ph.D	Biochemistry & Molecular Endocrinology
<u>Computer and System Science</u>		
Professor		
Paramartha Dutta	M.Stat. M.Tech, Ph.D.	Soft Computing, Pattern Recognition, Mobile ad-hoc network, Image Processing

Appendix- E

Name	Qualification	Specialization
Balaram Bhattacharya Aloke Kumar Dutta	M.Sc., Ph.D., M.Tech. M.Sc., Ph.D.,	Data Mining, Image Processing, Bio-Infr. Approximation Algorithms, VLSI Routing Algorithms, Computational Molecular Biology
Associate Professor Tathagato Mukhopadhyay Utpal Roy	M.Sc. M.E. M.Sc., Ph.D.,	Mobile Communication, Image Processing Quantum Computing, <i>Image Processing</i> : Document & Colour
Asst. Professor Kakali Datta Subhasis Banerjee Sanchita Pal Choudhuri Madhusudan Paul Sudip Kr. Naskar	B.Sc. B.Tech., M.E. M.Sc., M.Tech. M.Sc., M.Tech. M.Sc., M.Tech. M.E., Ph.D.	Quantum Cellular Automata Mobile Communication Discrete Mathematics, Soft Computing Computational Systems Biology, Natural Language Processing
<u>Integrated Science</u> Reader		
Subrata Sinha Sushanta Ghosh	M.Sc. Ph.D M.Sc. Ph.D	Spectroscopy Physical Chemistry
Asst. Professor Mahasweta Nandi Umesh Kr. Singh Swapan Kumar Pandit Nilanjan Bandyopadhyay Girish A.	M.Sc. Ph.D M.Sc. M.Phil. Ph.D M.Sc. M.Phil. Ph.D M.Sc. Ph.D. M.Sc.	Inorganic Chemistry, Material Science Hydrogeology, Water & soil pollution Computational fluid dynamics Mathematical Physics ,High Energy Physics Life Science
<u>Education</u> Professor		
Benudhar Chinara Sambhu Charan Roy	M.A., M.Phil., Ph.D Ph.D, B.Ed., M.PE	Peace & Value Education, Elementary Edu. Physical Edn. NIS, Ph.D.
Associate Professor Smt. Sukla Bhattacharya Khanu Charan Sahoo Biplab Kr. Chattopadhyay	M.Sc., M.Ed., Ph.D M.A., M.Phil., Ph.D M.Sc., Ph.D	Sc.Edn., Comparative Edn., Env.Edn. Education Agriculture
Asst. Professor Partha Pratim Sikdar Smt. Trishna Banerjee Sanat Kumar Rath Prohlad Ray Asheesh Srivastava Chitralekha Maiti Ms. Sarita Md. Shaheer Siddiquie	M.Fine M.Mus M.A., M.Ed., Ph.D M.A., B.Ed. Ph.D M.Sc., M.Ed., Ph.D M.Sc. M.A., M.Ed. M.A., M.Ed.	Fine Arts, Sculpture Rabindra Sangit, Traditional Bengali Song. Education, Philosophy Bengali Education, Sociology & Folk Edu. Mathematics Geography Education English/Economics

Appendix- E

N a m e	Qualification	Specialization
<u>Physical Education</u>		
Professor		
Brajanath Kundu	B.Sc.,M.P.Ed., Ph.D.	Exercise Physiology &
Associate Professor		
Sagarika Bandyopadhyay	B.Sc., M.P.Ed., M.Phil.,Ph.D,	Exercise Physiology
Sumanta Kumar Mondal	M.P.E., M.Phil., Ph.D.	Kinesiology & Biomechanics
Samiran Mondal	M.Ed.(Physical Education),Ph.D	Psycho-Physiology Cert. in Hockey, Yoga
Ashok Kumar Goon	M.P.E, Dip. in Coaching	Exercise Physiology
Reader		
Sudarshan Biswas	M.P.E., Ph.D.	Exercise Physiology & Football
Asst. Professor		
Ratnesh Singh	M.P.E., M.Phil Diploma in Coaching (Cricket)	Biomechanics & Cricket
Mahesh Sawata Khetmalis	M.P.E., Ph.D.	Sports Psychology & Gymnastics
<u>Sangit Bhavana</u>		
Professor		
Mohan Singh Khangura	B.Mus	Khyal & Thumri
Indrani Mukherjee	M.Mus., Ph.D.	Rabindra Sangit
Ashok Ganguly	M.A., Ph.D.	Rabindra Sangit
Madhabi Ruj (Ghosh)	M.Mus., Ph.D.	Rabindra Sangit
Swastika Mukherjee	B.A.	Rabindra Sangit
Associate Professor		
Malay Sankar Chatterjee	M.Mus.	Rabindra Sangit
Prasanta Kumar Ghosh	B.Sc., B.Ed., M.Mus.	Rabindra Sangit
K. Sunita Devi	B.A., Dip. in Manipuri	Manipuri Dance
T.S. Vasuni	Proficiency in Art	Kathakali Dance
Kaberi Kar	M.A.	Dhrupad
Basabi Mukherjee	M.Phil.	Khayal & Thumri
Buddhadev Das	M.Mus.	Esraj
Swapan Ghosh	Sangeet Ratnakar (M.Mus.)	Tabla, Pakhawaj
Tarak Sengupta	M.A Dip. in Photography	Drama & Theatre Arts, (Acting/Direction), Photography
Sabyasachi Sarkhel	M.A., Ph.D.	Sitar
Samir Kumar Dutta		Dhrupad
Nikhilesh Chowdhury	M.Mus., Ph.D.	Sitar & Musicology
Dilip Kumar Karmakar	M.A.	Classical Vocal
Sunil Kabiraj	B.Com.	Esraj
Y. Hemanta Kumar	B.A., P.G.D. (Ras) Diploma Choregraphy	Manipuri Dance
Asst. Professor		
Mohan Kumaran P.	M.A., B.Ed.	Kathakali Dance
Sanghamitra Gupta	P.G. Dip. (Sociology) Dance	Rabindra Sangit

Appendix- E

Sumit Basu Basanta Mukherjee Monojit Mallick Nikhil Ranjan Roy	M.A. Ph.D M.Mus. M.A. Sangit Prabhakar & Visarad, Gurukul Training	Manipuri Dance Kathakali Dance Classical Vocal (kheyal) Tabla
Sandip Ghosh	B.Com., Sangit Prabhakar Sangit Bivakar	Tabla & Pakhawaj
Mousumi Roy	M.A, Ph.D. H.C.M (Vocal)	Kheyal
Tapas Chatterjee Smt. Chaya Rani Manda	M.Mus. M.A.Phil.,	Hindusthani Classical Music (Esraj) Oriya & Classical Vocal Music (H.C.Y.)
Ranjit Das Smt. Eshita Chakroborty Rajesh Menon N Amit Kumar Verma P. Mukunda Kumar Smt. Arpita Dutta (Das) Suchindranath Puthan Sri Rajesh K V Nandita Basu Sarbadhikari Manani Mukhopadhyay Saptarshi Roy Surajit Roy	M.Mus. M.Mus., M.Phil. M.Mus. M.Mus. M.Mus. M.Mus. M.A in Kathakali Ph.D M.MUS M.MUS M.MUS M.A	Classical Music Classical Music Kathakali Dance Classical Music Kathakali Dance Rabindra Sangit Rabindra Sangit Rabindra Sangit Rabindra Sangit Rabindra Sangit
Accompanist Binodini Devi K. Premjit Singh N.P.Sankarnarayanan	S.H.L.C. Exam. P.G. dip. in Mridanga Proficiency in Art P.G. Katha-Kali Gurukul Training	Manipuri Song Pung (Khol) Kathakali Chanda
Animesh Chandra Alok Banerjee Tapan Kumar Roy	M.Mus. H.S., Sangit Pravakar & Ratnakar	Esraj Esraj Tabla
SitaramDas Biswajit Saw Joydeb Golder Rajan P.	Dip. in Maddalam	Pakhawaj Maddalam
Kala-Bhavana Design Professor Sisir Sahana Prabir Kumar Biswas Ashok Bhowmik	B.F.A, M.F.A B.F.A.,Painting,CDTC 5 Yrs. Course in Dip. in Painting	Glass Painting and Ceramic Design Painting
Associate Professor Sakshi Gopal Das	Dip. in Fine Arts	Textile Design

Appendix- E

Prasun Kanti Bhattacharya	B.Sc.(Hons.), Diploma in Painting	Painting & Textile Design
Goutam Kumar Das	B.Fine	Ceramics
Debashish Mahalanobish	D.H/L Tech., P.D.Textile Chemistry, Dip.H/L.Co.Op. Management	Handlooms and Textile Chemistry
Asst. Professor		
Krishnendu Bag	B.Fine, Textile Design	Design (Textile)
Debasish Das	MVA in Ceramic	Ceramic Design
Bhavna Khajuria Basumatary	MFA	Ceramic Design
Archana Das	MFA	Ceramic Design
Anupam Choudhary	MFA	Ceramic Design
Madi Linda	BA, BFA,MFA	Ceramic Design
<u>Graphic Art</u>		
Professor		
Nirmalandu Das	M.F.A., Ph.D.	Graphic Art.
Pinaki Barua	M.F.A.	Graphic Art.
Associate Professor		
Ajit Seal	Post Diploma Graphic Art	Graphic Art.
Arpan Mukherjee	M.F.A.	Graphic Art
Asst. Professor		
Pulak Dutta	M.F.A.	Graphic Art (Print Making)
Salil Sahani	M.F.A.	Graphic Art
Uttam Kr Basak	M.F.A.	Graphic Art
Moirangthem Thomas Singh	M.V.A.	Graphic Art
Prashant Phirangi	M.F.A.	Graphic Art
<u>History of Art</u>		
Professor		
R.Siva Kumar	M.Fine	Contemporary Indian Art, Renaissance and Post Renaissance art of the West
Associate. Professor		
Sanjoy Kumar Mallik	M.F.A, Ph.D.	Indian Art Ancient & Contemporary
Asst. Professor		
Anshuman Dasgupta	M.F.A	Contemporary Art (Indian & Western)
Soumik Nandi Majumdar	M.F.A	Indian Art (Traditional Art & Craft)
Syed Parvez Kabir	M.F.A	Ancient Indian Art. (Sculpture & Architecture)
Rishav Gandhar Narzary	MFA	Modern western Art
<u>Painting</u>		
Professor		
Nandadulal Mukhopadhyay	B.Fine, M.F.A.	Painting & Mural

Appendix- E

Associate Professor

Sitansu Mukhopadhyay	M.F.A.,Ph.D.	Painting
Dilip Mitra	M.F.A	Painting
Arghya Priya Majumdar	M.Fine	Painting
Sanchayan Ghosh	M.F.A	Painting

Asst. Professor

Ambaris Nandan	M.V.A.	Painting
Prasanta Sahu	M.F.A	Painting
Rajarshi Biswas	M.F.A	Painting
Sk. Sahajahan	Adv. Dip in Painting	Painting
Dharitri Boro	M.F.A	Painting

Sculpture

Professor

Pankaj Panwar	M.F.A.	Sculpture
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Associate Professor

Sumitabha Pal	M.F.A.	Sculpture
Sutanu Chatterjee	M.F.A.	Sculpture

Asst. Professor

Kamal Dhar	M.F.A.	Sculpture
Rishi Barua	M.F.A.	Sculpture
Amit Kumar Dhara	M.F.A	Sculpture
Lawanshaibha Kharmawlong	M.F.A	Sculpture

Palli Samgathana Vibhaga

Palli Charcha Kendra

Professor

Maitreyi Chowdhuri	M.Sc,Ph.D.	Statistics and Econometric Methods
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Sankar Majumder	M.Sc,Ph.D.	Planning and Public Economics
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Associate Professor

Santanu Rakhit	M.Sc,Ph.D.	Agrarian Economy, International Trade, Socio-Economic Differentiation Rural Development
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M. Alankara Massilamani

M.A.,M.A.,Ph.D.

Asst. Professor

Sujit Kumar Pal	M.A. Ph.D.	Rural Development, Microfinance W.S.Edu
Rathindra Nath Pramanik	M.A.Ph.D.	Agricultural Economy/Labour Economy

Rural Extension Centre

Professor

Amit Kumar Hazra	M.Sc.(Ag.), Ph.D.	Rural Economics & Rural Development
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Associate Professor

Rafiqul Islam	MA(SW), Ph.D	Elementary & Non formal Education.Population Education
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Asst. Professor

Appendix- E

Subhrangsu Santra Asst.Lecturer	MA, Ph.D	Rural Development
Sandip Sen	M.Mus	Rabindra Sangit
Tarasankar Das	M.Mus	Rabindra Sangit
Subhayu Sen Majumdar	M.Mus	Esraj
<u>Silpa Sadana</u> Professor		
Raj Kumar Konar	B.Arch, M.Des.	Architecture, Furniture, Interior & Product Design
Smt. Padmini Balaram	Ph.D	Textile
Associate Professor		
Vishal C. Bhand	B.F.A, M.Sc (Textiles)	Design Theory, Process & Painting
Arup Mukherjee	B.Sc.(Tech)	Textile Chemistry
Reader		
Santanu Jena	BFA & MFA in Pottery & Ceramic Adv. Course in Ceramic, China	Ceramic & Glass
Asst. Professor		
Amrita Kumar Das	Dip. in Wood Work	Wood Work
Madhusudan Hazra	Dip. in Handloom Weaving	Handloom weaving
Sanjay Kumar Goswami	B.Sc., Paper Tech.	Paper making
Smt. Shyamali Sengupta	B.Sc.(Hons.), Dip. in Wood work	Wood Work
Arun Kumar Sharma	B.F.A & M.F.A.Pot. & Cer.	Pottery-Ceramic
Prabir Kumar Choudhuri	M.Sc.(Tech.)	Mechanical Processing Textile
Arabinda Mondal	B.Tech M.Tech. Ph.D (Tech)	Ceramic
Ashis Mitra	B.Sc. (Tech) M.Sc. (Tech)	Mechanical Processing
Sankar Ray Maulik	M.Tech.Ph.D,	Textile Chemistry
Ashis Ghosh	M.F.A.	Wood-work
Naba Kumar Majhi	B.F.A., M.F.A.	Interior Accessories
Deb Kumar Das	B.Com., Dip. in Woodwork	Woodwork
Mrinal Kanti Sarkar	B.F.A. (Design)	Textile Design
Ms. Sukanya Chatterjee	B.Sc., M.Sc.(Wood Sc.)	Wood SC. & Tech.
Jaya Boro	M.F.A	Painting, Pottery, Ceramic
Manoj Kumar Prajapati	M.F.A.	Design, Pottery & Ceramic
<u>Social work</u> Professor		
Kumkum Bhattacharya	M.A.(Psychology),Ph.D.	Culture Personality
Ashok Kumar Sarkar	M.A. (SW), Ph.D.	NGOs,Health care & Development
Prasanta Kumar Ghosh	M.A.(SW), Ph.D.	HRD,HRM,AID/HIV History, Philosophy, concept of social work
Debotosh Sinha	M.A.(SW), M.Phil., Ph.D.	Family & Child Welfare
Reader		
Manju Mohan Mukherjee	M.A.(SW), Ph.D.	Health & Mental Health
Associate Professor		
Swapan Hazra	M.A.(SW)	HRD, Welfare Administration

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Sanjoy Roy Asst. Professor	M.A.(SW),M.Phil,Ph.D	Community Development
Ram Prasad Das Paramita Roy	M.A.(SW), M.Phil. M.Sc (Economics)	Crime and Correctional Administration Development Economics, social Development
Sudeshna saha Neelmani Jaysawal Josheph Varghese	M.A. (SW) M.A M.A, M.Phil	Medical & SW Psychiatric Social Work Community Organization Community Development
Sukumar Pal	M.A, Ph.D	Weaker Section,Social Defence and Correction
Ms. Subhashree Sanyal Sasmita Patel	M.A(Social Work) MSW, M.Phil	Medical & Psychiatric Social Work Women Empowerment
<u>Palli Siksha Bhavana</u>		
<u>Crop Improvement,</u>		
<u>Horticulture and</u>		
<u>Agricultural Botany</u>		
Professor		
Partha Sarathi Munshi Paresh Chandra Kole	M.Sc.(Ag.), Ph.D. M.Sc. (Ag.), Ph.D.	Floriculture, Medicinal and Aromatic Plants Plant Breeding
Associate Professor		
Amitava. Paul	M.Sc.(Ag.), Ph.D.	Genetics & Plant Breeding
Reader		
Snehasish Chakravorty	M.Sc.(Ag.), Ph.D.	Olericulture & Floriculture
Asst. Professor		
Joydeep Mandal N. R. Chakraborty Prahlad Deb	M.Sc.(Ag.), Ph.D. M.Sc.(Ag.), Ph.D. M.Sc(Hort), Ph.D	Olericulture Genetics & Plant Breeding Pomology & Post-harvest Technology
Plant Protection		
Professor		
Nakul Chandra Mandal	M.Sc.(Ag.), Ph.D.	Post harvest Pathology, Root Pathology and Mushroom & Fungal Plant Pathology
Kanchan Baral	M.Sc.(Ag.),Ph.D.	Economic Entomology
Associate Professor		
H. Chatterjee R. Nath	M.Sc.(Ag.), Ph.D. M.Sc.(Ag.), Ph.D.	Economic Entomology Plant Virology
Asst. Professor		
Palash Mondal Moham Kumar Biswas Bholanath Mondal Swarnali Bhattacharya	M.Sc.(Ag.),Ph.D. M.Sc.(Ag.), Ph.D. M.Sc.(Ag), Ph.D. M.Sc.(Ag.), Ph.D.	Economic Entomology Mushroom & Fungal Plant Pathology Plant Bacteriology Economic Entomology
Agricultural Extension, Agricultural Economics and Agricultural Statistics		

Appendix- E

Professor

Kazi Md. Badrur Rahim	M.Sc. (Ag.), Ph.D.	Agril. Economics
Swapan Behari Mukhopadhyay	M.Sc.(Ag.), Ph.D.	Agril. Extension
Debasish Bhattacharya	M.Sc.(Ag.), Ph.D.	Statistics
Sarthak Chowdhury	M.Sc.(Ag.), Ph.D.	Agril. Extension

Associate Professor

Bidhan Chandra Roy	M.Sc.(Ag.), Ph.D.	Agril. Economics
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Reader

Debashis Sarkar	M.Sc.(Ag.), Ph.D.	Agril. Economics
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Asst. Professor

Siddhartha Dev Mukhopadhyay	M.Sc.(Ag.), Ph.D.	Agril. Extension
Anindita Saha	M.Sc.(Dairy Ext. Edu.)	Dairy Extension Education
Digvijay Singh Dhakre	M.Sc. Ph.D.	Statistics
Bitan Mondal	M.Sc	Diary Economics

Agronomy, Soil Science, Agricultural Engineering, Plant Physiology and Animal Science

Professor

S.K. Mukhopadhyay	M.Sc., Ph.D	Weed Science
Dulal Chandra Ghosh	M.Sc.(Ag.), Ph.D.	Crop Growth Analysis
Gopal Chandra De	M.Sc.(Ag.), Ph.D.	Weed Science
Ashis Kumar Chatterjee	M.Sc.(Ag.), Ph.D.	Soil Chemistry
Santi Ranjan Mitra	M.Sc.(Ag.), Ph.D.	Agri. Chemistry
Saraj Kumar Pyne	M.V.Sc., Ph.D.	Vet. Anatomy & Reproduction Teratology

Associate Professor

Arun Kumar Barik	M.Sc.(Ag.), Ph.D.	Crops and Cropping System
Binoy Kumar Saren	M.Sc.(Ag.), Ph.D.	Water Mangement
Ranabir Moitra	M.Tech., Ph.D.	Soil & Water Conservation
Jayanta Kumar Chatterjee	M.V.Sc., Ph.D.	Teratology
Goutam Kumar Ghosh	M.Sc.(Ag.), Ph.D.	Animal Production and Management
Buddhadev Duary	M.Sc.(Ag.), Ph.D.	Soil Chemistry & Soil Fertility
		Weed Management

Reader

G.anesh Ch. Malik	M.Sc.(Ag.), Ph.D	Crop Husbandary & Water Management
P.K. Biswas	M.Sc. Ph.D	Agriculture Chemistry

Asst. Professor

Swapan Kr. Maity	M.Sc.(Ag.), Ph.D	Crop Husbandry
Suchhanda Mondal	M.Sc.(Ag.), Ph.D	Soil Science & Agril. Chemistry
Debasish Panda	M.Sc.(Ag.)	Plant Physiology
P. Kandaswamy	M.E.(Agril)	Agricultural Processing
Kalipada Pramanik	M.Sc.(Ag.), Ph.D.	Dryland Agronomy

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Mahua Banerjee	M.Sc.(Ag.), Ph.D.	Crop Husbandary
Vasudeve Raoy	M.Sc., Ph.D	Bio-Chemistry
K.C. Swain	M.Sc., Ph.D	Agriculture Engineering
N.C. Sarkar	M.Sc., Ph.D	Plant Physiology
M.c. Kundu	M.Sc., Ph.D	Soil Science
Ms. Sananda Mondal	M.Sc., Ph.D	Plant Physiology
School		
Patha-Bhavana		
Bodhirupa Sinha (Principal)	M.A (Eco.),B.Ed	
English		
Amitabha Mukherjee	M.A, B.Ed., Ph.D	English Language Teaching
Abhijit Sengupta	M.A., M.Phil, PGDTE	
Bijaya Bhattacharyya	M.A	
Surojit Sen	M.A, B.Ed.	Classical Tragedy
Sarada Basu Mukhopadhyay	M.A	American Lit.
Sreemoyee Ghosh	M.A, B.Ed.	
Sangita Hembrom	M.A	
Suranjima Saha	M.A, B.Ed.	American Lit.
Uma Chatterjee	M.A, B.Ed.	Classical Literature
Bengali		
Tarit Roychoudhuri	M.A	
Nilay Ray	M.A, M.Phil, BT, PGDAE	Linguistics
Shyamaprosad Chatterjee	M.A, Ph.D.	
Chandrani Mukherjee	M.A, M. Ed.	Music (H.C&R.S) 19th Cen. Bankim Chandra
Sonali Chakraborty(Majumder)	M.A, B. Ed.	Music (H.C&R.S) 19th Cen. Bankim Chandra
Rakhee Sarkar	M.A, B.Ed.	Prachin Sahitya
Haradhan Soren	M.A	
Nibir Kr. Ghosh	M.A, B.Ed.	
Anuradha Saha	M.A, B.Ed.	
Debolina Dalal	M.A, B.Ed.	
Mathematics		
Chumki Samanta	M.Sc, Ph.D.	
Subhrangsu Sen	M.Sc, B.Ed.	Quantum Mechanics & Atomic Collision Theory
Narayan Ch Mondal	M.Sc, Ph.D., B.Ed.	
Tarak Nath Saha	M.Sc, B.Ed. Ph.D.	
Patralekha Datta Sarkar	M.Sc, B.Ed.	
Madhusudan Mondal	M.Sc, B.Ed.	
Sutapa Saha	M.Sc, B.Ed.	
Music		
Chandan Muni	M.Music	
Chitra Muni	B.Sc, M.Mus.	
Mousumi Das	M.Music, B.Ed.	
Karunamoy Majumdar	M.Music	
Dulalprosad Mukherjee	B.Mus, (Tabla)	

Appendix- E

N a m e	Qualification	Specialization
Dance		
Sujata Mitra	B.Mus.(Manipuri)	
Arup Mitra	M.A. (Kathakali)	
Debabrata Mukherjee	Nritya & Sangeet Visharad	
Arts & Crafts		
Rati Basu	B.Fine(Painting), M.Fine(Graphic)	
Kalicharan Hembram	M.F.A.(Painting)	
Srabani Bhattacharya	B. Fine (Textile)	
Jayanta Mondal	B.F.A., M.F.A.(Painting)	
Priti.C. Nartiang	M.F.A.	Textile Design
Physics		
Bulbul Konar	M.Sc, B.Ed.	Condensed Matter Physics
Suchit Chakraborty	M.Sc, M.Ed.	Atomic Physics
Chemistry		
Ruhi Das	M.Sc. B.Ed. Ph.D	
Sasadhar Majhi	M.Sc. B.Ed. M.Phil.	
Life Science		
Chhatrapati Murmu	M.Sc.(Botany), B.Ed.	
Sunil Kumar Mondal	M.Sc. Ph.D	
Geography		
Sushmita Guha Roy	M.Sc, (Geo) Ph.D.	Environmental Geography
Goutam Kumar Chatterjee	M.A,	
Kishore Bhattacharyya	MA, B.Ed.	
History		
Nilanjana Sen	M.A	
Silpi Mukhopadhyaya	M.A, M.Phil, B.Ed.	
Nirmal Kr. Mahato	M.A., B.Ed., Ph.D	
Sanskrit/Hindi		
Debendra Pandey	MA(Double), Ph.D.	Premchand & Indian Philosophy
Sonali Gangully	M.A,B.Ed., Ph.D.	
Anindita Agarwal	M.A., B.Ed.	
Ms.Alpana Dhibar	M.A., B.Ed	
Economics		
Sarbari Dutta	M.Sc., M.Phil,	
Home Science		
Chaitali Ghoshal	M.Sc., Diploma(Diet)	
Mrinalini Ananda Pathsala		
Chhayaranjani Chakraborty	B.S.W, M.S.W.	
Srilekha Chattopadhyaya	M.A.	
Smt. Bani Biswas	M.Mus., P.P. & PPT	
Priya Halder		

Appendix- E

N a m e	Qualification	Specialization
Study Supervisor		
Nemai Sankar Chakraborty	M.Sc., B.Ed.	
Ranjit Mukherjee	M.Sc	
Partha Pratim Roy	M.A, B.Ed.	
Grihadhyaksha		
Avik Ghosh	M.A	
Partha Chakraborty	M.A, B.Ed.,	
Mukul Chatterjee	M.A, M.Ed.	
Metal Craft		
Chitra Bhanu Giri (Instructor)	Diploma in Engineering	
Physical Education		
Biswajit Bir	B.P.E, M.P.E	
Philosophy		
Ruma Das Hazra	M.A, B.Ed,	
Statistics		
Anil Baran Mondal	M.Sc., Ph.D, MCA	
Political Science		
Dipali Ghosh	M.A, M.Phil	
Siksha Satra		
Jayanta Kr. Bhattacharya	M.Sc,Ph.D, B.Ed,	X-ray & Crystallography
Bengali		
Smt. Aditi Basu	M.A.	Rabindranath
Smt. Siuli Sinha	M.A., Ph.D.	19th Century Bangla Lit.
Md. Mozharul Hamid	M.A,B.Ed	Prachin Bangla Sahitya
Smt. Nibedita Saha	M.A., B.Ed	19th Century Bangla Lit.
Iqbal Zahangir	M.A., B.Ed. M.Ed.	Teacher Education
English		
Asim Kumar Majumdar	M.A., B.Ed.,Ph.D.	Short Stories & Comparative Lit.
Smt. Mitali De Sarkar	M.A., B.Ed, PGDTE	ELT
Smt. Achina Majumdar	M.A, B.Ed,	ELT
Smt. Tamali Majumdar	M.A.,B.Ed, Cer. in French	English
Dibyendu Mondal	M.A.	ELT & Linguistics
Girish Chandra Dehury	M.A., B.Ed.	ELT & Linguistics
Geography		
Chandan Kumar Das	M.A.	Industrial Geography
Smt. Tripti Ghosh	M.A., B.Ed.	Dynamic Geomorphology
Smt. Gargi Ghosh	M.A, B.Ed.	Population Geography
History		
Soumen Sengupta	M.A., B.Ed.	18th Century in Indian History
Debabrata Barat	M.A., B.Ed, MEd.	18th Century Indian History & Creativity
Tarun Chakraborty	M.A., Ph.D,	History of Art

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N a m e	Qualification	Specialization
Life Science		
Smt. Ipsa Bandyopadhyay	M.Sc., Ph.D.	Ecology
Krishnendu Dey	M.Sc. B.Ed.	Pollination Biology
Gautam Saha	M.Sc. B.Ed. M.A.,	Environment Science & Teacher Edu.
Mathematics		
Sandip Kr. Bhakat	M.Sc., Ph.D.	History of Mathematics & Math. Edu.
Ganesh Mondal	M.Sc., B.Ed.	Applied Mathematics
Smt. Jayashree Saha	M.Sc., B.Ed.	Bio Mathematics
Statistics		
Rudra Prasad Sinha	M.Sc, B.Ed, M.A.,	Statistics
Physics		
Smt. Shampa Roy	M.Sc., B.Ed.	Solid State Physics
Parthasarathi Chatterjee	M.Sc., M.Ed.	Multimedia
Tirthasalil Dey	M.Sc.	X-ray & Crystallography
Chemistry		
Arup Bhattacharya	M.Sc., B.Ed., Ph.D.	Physical Chemistry
Pradip Soren	M.Sc. B.Ed.,	Inorganic Chemistry
Economics		
Subrata Sinha	M.Sc. M.Phil.	Advance Economics Theory
Sanskrit		
Smt. Anandamoi Mondal	M.A., B.Ed., Ph.D.	Kavya
Smt. Kanchan Dasgupta	M.A., B.Ed.	Kavya
Dance		
Smt. Madhuri Sinha	Dip. in Music & Dance	Dance
Electric		
Shyamalendu Banerjee	Dip. in Elec. Eng.	Power Station & Sub-Station
Music		
Durga Charan Majumdar	M.Mus.	Classical & Rabindra Sangeet
Rajatmoy Chattopadhyay	M.A.	Rabindra Sangit
Philosophy		
Smt. Sangeeta Sarkar	M.A, M.Phil	Development Ethics
Tabla		
Ranendranarayan Sinha	B.Sc., Sangeet Prabhakar Sangeet Visharad	Benaras & Lucknow Gharana
Hindi		
Smt. Sudha Gupta	M.A., B.Ed, Ph.D,	Poetic Language
Weaving		
Smt.Purnalakshmi Ghosh	B.A., Certificate Course in Weaving	Weaving
Painting		
Biswadip Das	MFA	Painting
Sudhi Ranjan Mukherjee	M.A	Painting
Physical Education		
Smt. Vandana Hazra	MPE	Athelitics
Somnath Mehana	B.P.Ed.	Football

Appendix-F

LIST OF SAMSAD (COURT) MEMBERS OF VISVA-BHARATI

Sl. No.	Name	Sl. No.	Name
1.	Dr. Manmohan Singh Hon'ble Prime Minister of India & Acharya (Chancellor), Visva-Bharati South Block - II Office 7, Race Course Road New Delhi - 110 001	11.	Smt. Bodhirupa Sinha Adhyaksha Patha Bhavana Visva-Bharati
2.	Prof. Sushanta Dattagupta Upacharya Visva-Bharati, Santiniketan	12.	Adhyaksha Palli Siksha Bhavana Visva-Bharati, Sriniketan
3.	Prof. Sabujkoli Sen The Director of Studies, Educational Innovations and Rural Reconstructions Visva-Bharati (From 25.02.2013)	13.	Adhyaksha Palli Samgathana Vibhaga Visva-Bharati
4.	Dr. Tapati Mukherjee Director of Culture and Cultural Relations Visva-Bharati	14.	Adhyaksha Vinaya Bhavana Visva-Bharati
5.	Dr. (Col) M.M. Mitra Director of Physical Education, Sports, National Service and Student Welfare Visva-Bharati	15.	Sri Jayanta Kr. Bhattacharya Adhyaksha Siksha Satra Visva-Bharati
6.	Adhyaksha Bhasha-Bhavana Visva-Bharati	16.	Adhyaksha Granthana Vibhaga, Visva-Bharati 6, Acharya Jagadish Bose Road Kolkata - 700 017
7.	Adhyaksha Vidya Bhavana Visva-Bharati	17.	Librarian, Central Library Visva-Bharati
8.	Adhyaksha Siksha Bhavana Visva-Bharati	18.	Proctor Visva-Bharati
9.	Adhyaksha Kala Bhavana Visva-Bharati	19.	Head Dept. of Bengali Visva-Bharati
10.	Adhyaksha Sangit Bhavana Visva-Bharati	20.	Head Department of English Visva-Bharati

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Sl. No.Name

21. Head
Department of Sanskrit
Visva-Bharati
22. Head
Department of Hindi
Visva-Bharati
23. Head
Department of Odia
Visva-Bharati
24. Head
Dept. of Arabic, Persian, Urdu & Islamic studies
Visva-Bharati
25. Head
Department of Indo-Tibetan Studies
Visva-Bharati
26. Head
Department of Chinese
Visva-Bharati
27. Head
Department of Santali
Visva-Bharati
28. Head
Department of Economics & Politics
Visva-Bharati
29. Head
Department of History
Visva-Bharati
30. Head
Department of A.I.H.C. & A
Visva-Bharati
31. Head
Department of Geography
Visva-Bharati
32. Head
Department of Philosophy & Religion
Visva-Bharati
33. Head
Centre for Journalism and Mass Communication
Visva-Bharati

Sl. No. Name

34. Head
Dept. of Anthropology
Visva-Bharati
35. Head
Department of Physics
Visva-Bharati
36. Head
Department of Chemistry
Visva-Bharati
37. Head
Department of Mathematics
Visva-Bharati
38. Head
Department of Zoology
Visva-Bharati
39. Head
Department of Botany
Visva-Bharati
40. Head
Department of Statistics
Visva-Bharati
41. Head
Computer & System Science
Visva-Bharati
42. Head,
Department of Biotechnology
Visva-Bharati
43. Head
Department of Environmental Studies
Visva-Bharati
44. Head
Department of Sculpture
Visva-Bharati
45. Head
Department of Painting
Visva-Bharati
46. Head
Department of Design
Visva-Bharati

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Sl. No.	Name	Sl. No.	Name
47.	Head Department of Graphic Art. Visva-Bharati	59.	Head Department of Silpa Sadhana Visva-Bharati
48.	Head Department of History of Art. Visva-Bharati	60.	Head Rural Extension Centre Visva-Bharati
49.	Head Department of Education Visva-Bharati	61.	Prof. Maitreyee Choudhury Palli Samgathana Vibhaga Visva-Bharati
50.	Head Department of Physical Education Visva-Bharati	62.	Prof. Ganapati Subbaih Prof. of AIHC&A Vidya Bhavana Visva-Bharati
51.	Head Department of Rabindra Sangit, Dance & Drama Visva-Bharati	63.	Prof. Shymal Kumar Samanta Siksha Bhavana Visva-Bharati
52.	Head Department of Classical Music Visva-Bharati	64.	Prof. Prabir Kumar Biswas Department of Design Kala-Bhavana Visva-Bharati
53.	Head Department of Agronomy Visva-Bharati	65.	Sri Sunil Kabiraj Sangit Bhavana Visva-Bharati
54.	Head Department of Crop Improvement Horticulture & Agril. Botany Visva-Bharati	66.	Prof. Gopal Chandra De Palli Siksha Bhavana Visva-Bharati
55.	Head Department of Plant Protection Visva-Bharati	67.	Dr. Sagarika Banerjee Dept. of Physical Education Vinaya-Bhavana Visva-Bharati
56.	Head Department of Agril. Extension & Deptt. of Statistics, Visva-Bharati	68.	Prof. Alpana Ray Dept. of Bengali (Bhasha Bhavana) Visva-Bharati
57.	Head Department of Social Work Visva-Bharati	69.	Smt. Srilekha Chatterjee Patha-Bhavana Visva-Bharati
58.	Head Department of Palli Charcha Kendra Visva-Bharati	70.	Sri Tirtha Salil De Siksha-Satra, Visva-Bharati

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Sl. No.	Name	Sl. No.	Name
71.	Sri Sukumar Bauri Cook-General Refectory, Santisree Hostel Visva-Bharati	81.	Shri Amarnath Pradhan Hon'ble Member of Lok Sabha N-2/49, IRC Village Bhubaneswar-751015 Odisha
72.	Smt. Subhra Chatterjee, Senior Assistant Internal Audit Office Visva-Bharati	82.	Sri Sudip Bandyopadhyay Hon'ble Member of Lok Sabha 72/4, S.N. Banerjee Road, Waverly Mansion, P.O. Entally Kolkata-700014
73.	Sri Mihir Lal Dhara Section Officer (General) Central Office Visva-Bharati	83.	Shri Kiran V. Shantaram Shantshree Rajkamal Studio, Parel Mumbai - 400 012
74.	Sri Palash Mukherjee Peon, Vidya-Bhavana	84.	Dr. Srikumar Banerjee Director, Bhabha Atomic Research Centre, Mumbai-400085
75.	Sri Anath Bandhu Pal Sevak (Attendant) Purbapalli Guest House Visva-Bharati	85.	Mr. K.S. Radhakrishnan J-1858, Chittaranjan Park New Delhi 110 019
76.	Prof. Barun De 55/2, Ballygunge Circular Road Kolkata-19	86.	Prof. Jogen Choudhury Professor Emeritus, Visva-Bharati Ratan Palli, Santiniketan
77.	Sri Ahmad Saeed Malihabadi 25, Eden Hospital Road, Kolkata - 700 013	87.	Prof. Dipankar Gupta 1, Palam Marg (Rear Block) Vasant Vihar New Delhi - 110057
78.	Dr. Bhalchandra Mungekar 201, Brahmaputra, Dr. B.D. Marg New Delhi - 110001	88.	Prof. T.K. Oommen 85, National Media Centre Gurgaon-122002, Haryana
79.	Shri Gulam Mohammed Sheikh Niharika, Behind University Health Pratapganj, Baroda - 390002	89.	Ms. Chanda D Kochar ICICI Bank Ltd. Land Mark, Race Course Circle, Vadodara-390007
80.	Dr. Ramchandra Dome Hon'ble Member of Lok Sabha Ek-ER Pally, Barabag, Suri Dist. Birbhum, West Bengal	90.	Sh. Farooq Sheikh Actor and Social Worker
		91.	Sh. Girish Karnad

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Sl. No.	Name
92.	Prof. Rajeev Lochan Block J/114, Sarita Vihar, Mathura Road New Delhi-110044
93.	Prof. Ramgopal Bajaj, C/o, Mr. Riju Bajaj Bunglo no.10/2, Neen Sagar Sidency, Station Road, Post. Karla, Taluka : Maval, Malavi Pune-410405
94.	Prof. Shekhar Chaudhuri Indian Institute of Management Calcutta D.H. Road, Joka, Kolkata-700104

Sl. No.	Name
7.	Dr. Srikumar Banerjee DAE Homi Bhabha Chair Professor Bhabha Atomic Research Centre Mumbai-400085
8.	Mr. K.S. Radhakrishnan J-1858, Chittaranjan Park New Delhi 110 019
9.	Prof. Alpana Ray Department of Bengali, Bhasha-Bhavana Visva-Bharati
10.	Prof. Gopal Chandra De Palli Siksha Bhavana Visva-Bharati
11.	Prof. Onkar Prasad, Adhyaksha Vidya Bhavana Visva-Bharati
12.	Adhyaksha, Kala-Bhavana Visva-Bharati
13.	Prof. Artatrana Nayak Adhyaksha Bhasha-Bhavana Visva-Bharati
14.	Smt. Bodhirupa Sinha Adhyaksha Patha-Bhavana Visva-Bharati
15.	Prof. Jogen Choudhury Professor Emeritus, Visva-Bharati Ratanpalli, Santiniketan Ph. 98311 97063

Appendix-G

Existing members of the Karma-Samiti (Executive Council)

Sl. No.	Name
1.	Prof. Sushanta Dattagupta Upacharya (Vice-Chancellor) Visva-Bharati
2.	Dr. Tapati Mukherjee Director of Culture and Cultural Relations Visva-Bharati
3.	Prof. Sabuj Koli Sen The Director of Studies, Educational Innovation & Rural Reconstruction Visva-Bharati
4.	Dr. (Col) M.M. Mitra Director of Physical Education, Sports, National Service and Student Welfare, Visva-Bharati
5.	Shri Kiran V. Santaram Santashree Rajkamal Studio, Parel, Mumbai-400012
6.	Prof. Dipankar Gupta 1, Palam Marg (Real Block), Vasant Vihar New Delhi - 110057

Annual Report

Visva-Bharati

EDITORIAL COMMITTEE

Professor Sabujkoli Sen
Chairperson
Director of Studies, Educational Innovations & Rural Reconstruction

Professor Partha Sarathi Munshi
Principal, Palli Siksha-Bhavana

Professor Chakradhar Tripathi
Head, Dept of Hindi

Professor Amit Hazra
Principal, Palli Samgathana-Vibhaga

Professor Sisir Sahana
Principal, Kala-Bhavana

Professor Benudhar Chinara
Vinaya-Bhavana

Dr. Sanjoy Ghosh
Deputy Registrar (Administration), Convener

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