

North-Eastern Hill University



Thirty-fifth
**Annual
Report**



2008-2009

North-Eastern Hill University

Shillong

Thirty-Fifth Annual Report



2008 – 2009

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NORTH-EASTERN HILL UNIVERSITY

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From the Vice-Chancellor's Desk



The year under report was another eventful year during which the University achieved several laurels that reflect the academic and administrative capability of the University family. The organization of the 96th Indian Science Congress, first time in North-east India- attended by about 5000 delegates and hundreds of distinguished personalities, - a herculean task considering the logistic facilities available in the town, was done in an excellent manner. I congratulate the university fraternity for successfully organizing this mega event and thereby demonstrating the ample talent of its faculty, officers, non-teaching staff and students. The successful organization

of 83rd Annual Meeting of Association of Indian Universities, attended by more than hundred fifty heads of institutions, many from abroad, was another highlight of the year's activity that demonstrated the organizational and managerial skills of the members of the University.

The University's endeavour to achieve excellence in academic programmes has been reflected in increased number of quality research publications, many of which are in high impact factor journals. The faculty of the University has been able to bring huge extra mural funding for research thus creating world class laboratory infrastructure and instrumentation facility. NEHU is one of the few universities in the country where all registered Ph.D. students are provided fellowship. A good number of students cleared UGC-CSIR-NET, which is a reflection on the quality of students and courses offered in various Academic Departments and Centers of Studies.

Another feather was added to the University's cap this year by implementing the Choice - Based Credit System enabling students' choice of opting courses from across the University. This makes NEHU the first University in the region to have shifted to CBCS pattern of teaching and evaluation.

A Placement Cell and an Alumni Association were established to enhance and augment the support system for students. Several new hostels were added during the year providing residence to about 1800 students on campus. Param Shreesh-a super computer was installed on campus for the benefit of users of NEHU and other institutions in the region.

During this year, the University achieved another landmark by constructing a road to connect the University with the Gauhati-Shillong Road, thus reducing the time and distance for people travelling to Guwahati. Opening of a New Guest House with capacity to accommodate 100 guests, construction of the Convocation Pandal and construction of residences for students and staff with the support of National Mission on Bamboo Application, Department of Science and Technology were some major achievements of the Campus Development Department. The construction of buildings of Academic and Administrative Departments, Library and Hostels at Tura Campus are nearing completion.

This year the University undertook a drive to fill in the vacancies and reduced the number of vacant positions to a minimum. Several faculty members of the University received

recognition and awards which include Padma Shri and Fellowship of Indian National Science Academy and The National Academy of Sciences, India.

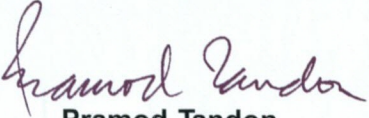
During the year under report the XIth Plan team from UGC visited the University. The university presented its requirements and plan proposal for development effectively. The UGC provided a development grant of Rs. 132 Crores and sanctioned opening up of six new departments and conversion of three Centers of Studies into academic department. Three more Academic Departments were added to the existing list of seven departments covered under special Assistance Programme of UGC.

The University welcomed several dignitaries during the year including the Hon'ble Prime Minister of India, Dr. Man Mohan Singh; His Excellency the Governor of Meghalaya, Shri Ranjit Shekhar Mooshahary, Hon'ble Ministers Sri Kapil Sibbal, Sri Mani Shankar Aiyar, Shri P.R. Kyndiah, Sri Prithviraj Chavan, Hon'ble Chief Minister of Meghalaya Dr. Donkumar Roy, Chairman Meghalaya Planning Board, Shri P.A. Sangma, Member of Parliament, Ms Agatha Sangma, and Chairman, University Grants Commission, Prof. S.K. Thorat.

The data and information presented in the report depict a very impressive growth and achievements.

I congratulate the University community for the same and wish that with collective efforts of all, the University will do even better in the years to come. I would like to place on record my appreciation of the efforts of the

Editorial Board of the Annual Report for bringing out this report.



Pramod Tandon

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NORTH-EASTERN HILL UNIVERSITY AT A GLANCE

The North-Eastern Hill University was established in 1973 by an Act of parliament with an object "to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to pay special attention to the improvement of the social and economic conditions and welfare of the people of the hill areas of the north-Eastern region, and in particular their intellectual, academic and cultural advancement." The University has its headquarters and main campus in Shillong and another campus located at Tura, both in Meghalaya. NEHU is one of six scheduled universities that can affiliate minority educational institutions in the country. The University has seven Schools of Studies. These Schools have under them 31 Departments and 5 Centers of Studies. Sixty six Colleges are affiliated to the University.

NEHU continues to receive grants from the UGC, DST, DBT, CSIR, DRDO, ICSSR, Ministry of Environment and Forests, Ministry of Social Justice and Empowerment, NBHM, NEC, and among several other funding agencies. Eight Departments are supported by the UGC's Special Assistance Programme (Botany, Zoology, Chemistry, Sociology, Geography and Biochemistry). The Department of Botany has been upgraded to the level of Centre of Advanced Studies. The Departments of Zoology and History has been given the position of SAP-DSA. Three Departments (Botany, Zoology and Chemistry) are funded under Committee on Strengthening of Infrastructure for Science and Technology (COSIST). Six Departments continue to receive funds for research from DST under Fund for Improvement for Science and Technology Infrastructure (FIST) (Biochemistry, Botany, Zoology, Chemistry, Physics and Geography). During the year under report the university faculty and collaborative research programmes with at least 20 national institutions and 7 international organizations.

The University has a University Science Instrumentation Centre for maintenance of Scientifics equipments and a Sophisticated Analytical Instrumentation Facility to facilitate scientific research. The Campus Development Department has been entrusted with the responsibility of construction and

maintenance of buildings and road in two campuses. The Planning Department looks after the physical and academic planning of the University. The Internal Quality Assurance Cell works for maintenance of quality in all spheres of University administration.

The University has a SC/ST Cell, a Grievance Cell, a Hindi Cell, a Statistics Cell, a Women's Cell and a Vigilance Officer and a Voice-Data Network across the University Campus. This facility enables faculty, scholars and students access internet as well as UGC Infonet and Inflibnet.

The Academic Staff College regularly organizes Refresher and Orientation Courses for the teachers of Colleges and Universities. The Departments and Centres of Studies organize national and international seminars, conferences and workshops. The faculty members and research scholars of the university participate and present research papers in such conferences. Publication of research conducted by the faculty continues to be an important part of the activity of the academic Departments and Centres of Studies. Every year a large number of NEHU students and scholars qualify UGC-CSIR-NET and find jobs in reputed institutions in India and abroad.

NEHU is among nine Indian Universities with the status of "University with Potential for Excellence". The research component of this programme is being implemented under two major thrust areas viz., Biosciences and Area Studies. During the year under report the total enrolment of students were 3064 out of which 603 students were registered for the Ph. D. and 23 in the M.Phil programmes. During the year under report 371 research papers were published by the faculty and researchers of the university. Eighty three research projects funded by various funding agencies were being implemented by the faculty during the year under report. Fifty one conferences, seminars and workshops were organized by various Departments and Centers of Studies during this year. Organization of 96th Science Congress with participation of over 5000 delegates from all over the country and abroad was the major highlight of this year's academic activities. The university also organized 83rd Annual Meeting of Association of Indian Universities attended by about one fifty hundred heads of educational institutions of India and a good number from abroad □

SCHOOL OF ECONOMICS, MANAGEMENT AND INFORMATION SCIENCES

Dean : Professor N. Srivastav (from 01.04.08 to 03.03.09)
: Professor P. Nayak (from 04.03.09 to 31.03.09)
Telephone : 2723183 (O), 2726183 (R), 9436111308 (M)
E-mail : nehupnayak@yahoo.co.in

The School of Economics, Management and Information Sciences consists of four Departments, namely; Commerce, Economics, Library & Information Science and Management. The first three departments are located in Shillong whereas the Department of Management is located at Tura. The School admits students to the Masters, M. Phil and Doctoral Programmes.

During the year under report five scholars were awarded doctoral degree in the school of which two each were from the Department of Economics and Department of Library & Information Science and one is from the Department of Commerce. Students of the School got placements in various colleges, universities, banking institutions and other commercial and government organizations including Indian Administration and Allied Services. The students of the Department of Management in particular got 100 per cent placements with average annual salary of Rs. 2.5 lakhs. A good number of students qualified UGC NET for the appointment as Assistant Professor. Students of three Departments visited different places in India on study tours/ industrial visits. Faculty members of the School were successful in drawing research funding for the Departments from different Ministries of the Government of India and other organizations. Two research projects were completed by the Department of Economics and one is in progress. Economics Department also provided two consultancy/research supports. The Department of Commerce conducted one National Workshops on Strategies for Development of small Business. This Department also conducted a Management Development Programme on Marketing Management. The Department of Library and Information Science

conducted a UGC Refresher Course on Managing Academic Libraries in Digital Era: Trends, Challenges and Issues.

The faculty members of the School published a number of books and research papers in professional national and international journals and contributed articles to a number of edited books. They also presented papers in a large number of Regional, National and International Seminars and Conferences held within India and abroad. They were also invited as Resource Persons in various refresher courses and orientation programmes organized within NEHU and outside the state of Meghalaya.

DEPARTMENT OF COMMERCE

Head : Dr. A.P. Pati (from 1.04.08-19.08.08)
Dr. V. K. Shrotryia (from 20.08.08 to 31.03.09)
Telephone : 0364-2723161 (O), 0364-2723167/2551990 (R), 9436335581
Email : hodcom@nehu.ac.in; vkshro@gmail.com

Thrust Area of Research The Department aims at imparting education needed for creation and management of business enterprises in an emerging economy. Keeping in view the importance of business research both at national and regional level, it also conducts socially relevant research work. The following are the thrust areas of research in the department: (a) Accounting & Finance (b) Entrepreneurship & Small Business and (c) Organizational Happiness

Brief Statement of Academic Activities: Currently the department has 75 students on roll at M.Com level. The department in addition to the regular teaching, conducted course seminars with the objectives of enabling them to enhance their presentation skills and sharing the outcome of their assigned project/field work/review. The department organized talks and discussions on the topics of relevance and other co-curricular activities for students through Post Graduate Commerce Students Study Forum. During the current year the department organized a Management Development Programme on Marketing Management for the Entrepreneurs and a National Workshop on development of Small Business. The faculty members

School of Economics, Management and Information Sciences

participated in regional, national and international seminars workshops and conferences and made presentations.

Faculty:

- Professors** : N. M. Panda, M. Com (U.U.), Ph. D (M.U.), LL. B (UU), FDPM (IIMA)
- Readers** : A. P. Pati, M.Com., M. Phil, Ph. D, LLB (UU), AICWA (ICWAI), DBF (ICFAI)
V. K. Shrotryia, M. Com., LL.Ei., Ph. D (Rohilkhand)
- Lecturers** : K.C. Kabra, M.Com., Ph.D (JR Nagar Raji Vidyapeeth)
R.A.J. Syngkon, MA, M.Com, Ph.D (NEHU)
: S. Kharmawphlang, M.Com (NEHU), DFM (NILEM, Chennai)

Student intake:

Enrolment capacity: M.Com – 45, Ph.D. - Variable

Actual admission	SC/ST/Gen	Male/Female	From Meghalaya/Outside
M.Com	- 41 4	29 16	45
Ph. D	- - -	- -	-
Degrees Awarded:			
Students passed	SC/ST/Gen	Male/Female	Total
M.Com	- 15 2	10 7	17
Ph.D	- - 1	1 -	1

Placement of the students: Though there is no formal placement Programme conducted by the department, the teachers on a continuous basis provide counseling to the students so as to enable them compete in the job market. Past statistics suggest that on an average within a period of 18 months, the graduating students are placed in respectable positions. The trend shows that they join banks, financial institutions, colleges, state government services and public sector units.

Courses Conducted: The department started offering courses on CBCS basis during the year.

Semester I (18 credits) Business Environment, Organizational Behavior, Corporate Accounting, Statistics for Decision Making and Managerial Economics (all core courses).

Semester II (18 credits) Advanced Financial Management , Marketing Management and Policy, Corporate Reporting Practices (core courses – 12 credits) Service Management, NGO Management, Management thought and Process and

Practice (open courses – 6 credits).

Semester III (old course) Financial Markets and Instruments, Human Resource Management and Industrial Relations.

Accounting and Finance specialization: Corporate Financial Accounting, Security Analysis and Portfolio Management.

Entrepreneurship specialization: Small Business Environment & Entrepreneurship Small Project Planning and Control.

Semester IV (Old course): Management Information System & Computer Application, Strategic Management.

Accounting and Finance specialization: Specialized Accounting Management of Financial Institutions.

Entrepreneurship specialization: Strategy and Management in Small Business, Retail Management.

Study tours/field trips of students: Dr. R.A.J. Syngkon took 40 students of M.Com programme on a study tour for 15 days from 17th Jan, 2009 to 31st Jan, 2009. The objective of the study tour was to provide an opportunity to the students to visit industrial and financial institutions situated in and around Bangalore and Goa.

Seminars/ workshops:

Organised:

Management Development Programme on Marketing; Management (Nov 17-22, 2008) in collaboration with MSME; Development Institute, Shillong (under the Ministry of Micro, Small and Medium Enterprises, Government of India) held at NEHU Bijni Complex. National Workshop on 'Strategies for Development of Small Business' (March 24-25, 2009) held at NEHU permanent campus.

Attended:

Dr. Vijay Kumar Shrotryia: (i) International Seminar on Consumer Rights and Education held at Swami Sukhdevanand PG College, Shahjahanpur, UP on 22-23 Dec, 2008 (delivered a keynote address on :Customer Satisfaction to Customer Delight); (ii) 4th GNH International Conference organized by the Centre for Bhutan Studies, Government of Bhutan on 17-19 Nov, 2008 (presented a paper entitled 'Shift in the Measures of Quality of Life viz-a-viz Happiness- A study of Phongmey geog and Trashigang Town in Eastern Bhutan).

Dr. A.P. Pati: (i) International Conference on Business organized by ICFAI,

Hyderabad, 9-10 Jan 2009. Presented a paper on 'Artificial Intelligence and Solution to NPAs Problems in Indian Banking: Does KBDSS Prove Handy'; (ii) International Conference on Micro Finance organized by Department of Commerce Pondichery University 21-23 Jan, 2009. Presented a paper on "Micro Credit as Catalyst to Women Empowerment Evidences and Observations"; (iii) National Seminar on Micro Financing as a Means of Alleviating Poverty, organized by Shillong College of Commerce, 6-7 March, 2009. Presented a paper on "Microcredit Intervention in North Eastern Region: The Role of Commercial Banks".

Dr. K.C. Kabra: (i) National Seminar on Rural Development in India Prospects & Retrospect, organized by the Department Economics, St. Joseph's College, Jakhana (Nagaland), 21-22 Nov, 2008. Presented a paper on "Agriculture & Forestry: Road Map to Rural Development"; (ii) National Workshop on Strategies for Small Business organized by Department of Commerce, NEHU, Shillong, 23rd – 24th March 2009. Presented a paper on "Business and Industry in Mizoram: A Study of Development since 1872 and Present Status".

Dr. R.A.J. Syngkon: (i) National Workshop Strategies for Small Business organized by Department of Commerce, NEHU, Shillong on 23-24 March, 2009, presented a paper on "Fracticing and Practitioners in Small Scale Industries in Meghalaya"; (ii) National Seminar on Entrepreneurship in the Era of WTO organized by the Manipur Institute of Management Studies, Manipur University, Imphal, 6-7 March, 2009. Presented a paper on "Indigenous Entrepreneurship Development in Small Scale Industrial Sector in Meghalaya".

Publications:

National Journals:

Pati, A.P. 2008. Subsidized Micro Financing and Financial Sustainability of SHGs. *The Indian Journal of Commerce*, 61: 137-150.

Syngkon, R.A.J. 2008. Emergence of Small Scale Industries and Entrepreneurship in the Rural Areas of North-Eastern States of India: An Analytical Approach. *The Journal of Entrepreneurship Development*, 5: 6-22.

Books:

Pati, A.P. 2008. Micro Finance and Empowerment of Women. In: Das, Nanda and Rath (eds.) *Micro Finance and Rural Development in India*, New Century Publications, New Delhi, 31-40.

Pati, A.P. 2009. Micro Credit as Catalyst in women Empowerment: Evidences

and Observations, In: Lazar and Deo (eds.) *Finance Performance Evaluation and Enterprise Development* Allied Publishers, New Delhi, 304-315.

Kabra, K.C. 2008. Entrepreneurial Development in Mizoram: An Insight Look, In: Sinha, S.K. (ed.) *Entrepreneurship and Rural Development*, Vedam Books Pvt Ltd, New Delhi, Chapter 12.

Kabra, K.C. 2008. Co-Operative Financing in Mizoram: A Case Study of Mizoram Co-Operative Apex Bank Ltd, In: Sinha, S.K. (ed.) *Economy and Entrepreneurship*, Vedam Books Pvt Ltd, New Delhi, Chapter 22

Infrastructure facilities:

During the year under report the department established has a Computer Lab furnished with 15 computers having internet connectivity and a Learning Resource Center having around 250 titles of books, database and reports for the students of Masters and Doctorate programme .

Honours/Awards/Recognitions:

Dr. V.K. Shrotryia – Member of International Strategic Alliance Management Team (ISAMT) of Indian Commerce Association.

Any other activities:

Dr. A.P. Pati, (i) Resource person in the Refresher Course on Philosophy (from 18 August to 8 September, 2008) organized by the Deptt. of Philosophy, NEHU, Shillong. Delivered a Lecture on "Can Corporate Governance Promote Business Ethics"; (ii) Resource person in National Workshop on Research Methodology and MATLAB (from 23-30 March 2009) organized by the Centre for Adult and Continuing Education, NEHU, Shillong. Delivered a Lecture on "Statistical Hypothesis Testing"; (iii) Participated in the National Workshop on Strategies for Small Business, (from 23-24 March, 2009) organized by Deptt. of Commerce, NEHU, Shillong

Vijay Kumar Shrotryia : (i) Resource person in special course on Human Resource Development Organizational Behaviour, Leadership and Motivation for SOs to AOs held on Regional Training Institute, Indian Audit and Accounts Department, North Eastern Region, Shillong. Delivered lectures on "Human Resource Management, Organizational Behaviour and Individual Characteristics" (23.06.08), "Nature and importance of perception Personality and Motivation" (24.06.08) and "Work Attitude and Job Satisfaction" (25.06.08); (ii) Resource person for the refresher course on Philosophy (from 18 August to 8 September, 2008) organized by the Department of Philosophy, NEHU, Shillong Delivered lectures on "Happiness in

Nation”(1.9.08) and “Organizational Happiness” (6.9.08); (iii) Keynote address on “Corporate Strategy towards Attaining Organizational Happiness – A Recipe for Future Organizations during annual convention of Stock Holding Corporation of India Limited (SHCIL) held at Shillong on 30th Nov 2008; (iv) Chaired a technical session in an International Seminar on Consumer Rights and Education held at Swami Sukhdevanand PG College, Shahjahanpur, UP on 22-23 Dec 2008;(v) Participated in 61st All India Commerce Conference held at Dhanwate National College , Nagpur ,Maharashtra during 27-29 December 2008; (vi) Resource person for UGC –ASC. Third Orientation Course (from 23rd Feb to 21st March ,2008) at the Department of Education, NEHU, Shillong. Delivered lectures on “Organizational Happiness” (28.2.09) and “Personality Development” (2.3.09); (vii) Participated in the National Workshop on Strategies for Small Business (23-24 March, 2009) organized by Deptt. of Commerce, NEHU, Shillong.

Dr. K.C. Kabra: (i) Resource person in the course on PG Diploma in Entrepreneurship at the centre for Distance Education, NEHU, Shillong; (ii) Resource person in the PG and MBA courses offered by IGNOU, New Delhi at the centre for Distance Education, NEHU, Shillong; (iii) Participated in the Workshop on E-Learning with focus on Educational: nternet Domain (18-19 March 2009) organized by Centre for Distance Education, NEHU, Shillong; (iv) Participated in the National Workshop on Strategies for Small Business (23-24 March 2009) organized by Deptt. of Commerce, NEHU, Shillong.

Dr. R.A.J. Syngkon: (i) Participated in the National Conference on 'How the Poor are affected by Trade?' (14-16 October 2008) organized by UNCTAD, New Delhi; (ii) Participated in the National Workshop on Strategies for Small Business (23-24 March 2009) organized by Deptt. of Commerce, NEHU Shillong.

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

Head : Dr. Moses M. Naga
Telephone : 91364 272 3141, 2723142(O), 91364 2726142 (R)
E-mail : moseshaimai@yahoo.co.uk

Thrust Area of Research: Information Retrieval, Information & Knowledge Management, Database Management Systems, Communication Technologies & Digital Libraries, Measurement & Effectiveness of Information Services and information Centres, Human Resource Management of Academic Libraries, Content Analysis and Marketing of Information Products and Services.

Brief Statement of Academic Activities: During 2008-09 the department revised the syllabus as per the Choice Based Credit System (CBCS). The faculty and the research scholars of the Department published a good number of their research outputs in leading professional journals and in seminar and conference proceedings of national and international level. Apart from attending to regular teaching and research programmes, the teachers of the Department have participated in various national and international seminars and conferences and have delivered lectures in refresher and orientation courses conducted by other departments. The Department also successfully conducted a Refresher Course. As part of the course, the Department took the students on a study to Mumbai and Goa.

Faculty:

Readers : Moses M. Naga, MLISc\Ph.D (NEHU)
Bikika Laloo, MLISc (NEHU), Ph.D (Guwahati)
Lecturers : P. Hangsing, MLISc (Delhi), PGDCA\ Ph.D (NEHU)
J.J. Thabab, MLISc (NEHU)
J. Khangtim, MLISc, PGDCA (NEHU)
Guest Teachers : D.O. Jyrwa, guest lecturer w.e.f. 19.2.09 to 31.7.09
J.P. Nongbri, guest lecturer w.e.f. 19.2.09 to 31.7.09

Students intake :

Enrolment capacity : 25

School of Economics, Management and Information Sciences

Actual admission

SC/ST Gen Male Female From Meghalaya/Outside Meghalaya

MLISc	-	25	1	17	9	23	3
Ph.D.	-	1	-	1	-	-	1

Degree Awarded: SC/ST Gen Male Female

MLISc

Ph.D:

Lalremsiami, " Role of Village Libraries in the Development: A Case Study of Mizoram", Supervisor: Dr. P. Hangsing, Prof. A.S.Chandal.

Mary A.F. "Television as a Medium of Information for Social Changes Study of Rural Meghalaya", Supervisor: Dr. P. Hangsing and Prof. A.S. Chandal.

Placement of Students: The students joined various College, University, Libraries at leaders and state government employees.

Courses conducted:

Compusory Courses: Foundation of Library & Information Science, Organisation of Knowledge (Theory), Organisation of Knowledge (Practical), Information Sources & Services, Introduction to Information Technology, Organisation of Knowledge (Theory), Organisation of Knowledge (Practical), Library Software Packages (Practical), Library House Keeping Operations, Information Retrieval, Research Methodology in Library and Information Science, Collection Development I, Management of Library & information System, Digital Libraries, Information Users & their Needs, Collection, Development-II, Dissertation.

Open Courses: Library System Analysis & Design, Database Management System, Information Communication Technology.

Study tour/Field trips of Students: A study tour Mumbai and Goa for the twenty one students of the department was conducted by the department in January 2009. Dr. B. Laloo was the teacher-in –charge of the tour.

Seminar/Conference/Symposia/extension programme, etc:

Organised:

The Department organized a Refresher Course under the theme "Managing

Academic Libraries in Digital Era: Trends, Challenges and issues" from 19-08-2008 to 09-09-2008.

Attended:

Moses M. Naga (i) attended and presented a paper on "Common Service Centres for Rural Empowerment: A New Dimension for Librarianship" and chaired a technical session during the National Seminar on "Changing Role of Library and Information Profession" held in the Department of Library and Information Sciences, Mizoram University, Aizawl during 29-30 September, 2008. (ii) Attended and presented a paper on "Access to e-journals through UGC-INFONET Digital Library Consortium: A Study of Usage among the Universities of North-East India" in PLANNER, held in Dimapur jointly organized by Nagaland University and INFLIBNET Centre, Ahmedabad during 6-7, November, 2008. He also co-chaired a technical session and (iii) presented a paper on "Open Access through Community-Base information Centre: A Challenge to Library Profession", in the National Seminar on "Digitization of Libraries in North-East India" held in the Department of Library and Information Sciences, Guwahati University during 8-10, January, 2009. (iv) Presented a paper on "Universal Access through Common Service Centres (CSCs) for Rural Empowerment: A New Dimension for Librarianship", during the National Seminar on "Preservation and Conservation of Information Resources in Knowledge Society issues, Challenges and Trends" held in the Department of Library and Information Sciences, Manipur University during 3-4, March, 2009.

Bikika Laloo (i) attended a Seminar-Cum-Workshop on "Library Literacy" organized by Kiang Nongbah Govt. College, Jowai on 6th June, 2008. Attended the UGC sponsored, "Refresher Course in Library & Information Sciences" held in NEHU from the 19th of August 2008 to the 9th of September, 2008. (ii) Attended a Meeting of the Members of the British Council India with Writers of NEHU, held in the Social Science Seminar Hall, NEHU, on the 1st of December, 2008. (iii) Attended and three Books written by her "Jingim ba suda"(Poetry), "Empty Lives" "Musing of a Reluctant Poet" and "Dad and the Salesman"(Short stories) were released at the Women's Day Seminar conducted by the Sahitya Akademi in collaboration with the All India Poeters Conference, Don Bosco Youth Centre on 4th March, 2009.

Paokholun Hangsing and Hanadashisha War presented a paper on "Open Source Digital Library Software: A Literature Review" at the National Seminar on Preservation of Digital Materials in Digital Era sponsored by Central Reference Library, Kolkata and Organised by Department of Library and information Science, Manipur University on 3rd and 4th March, 2009. P. Hangsing and Lalditum Sinat

presented a paper on "A Preliminary View at the Concept of Semantic Web from the Perspective of Library Services" at the National Seminar on Preservation of Digital Materials in Digital Era sponsored by Central Reference Library, Kolkata and Organised by Department of Library and Information Science, Manipur University on 3rd -4th March, 2009.

Jacqueline J. Thabah (i) attended a National Workshop on "Trends in Library & Information Science Research" on May 7-9, 2008 jointly organized by DLIS, G.U. and MASSDOC, ICSSR, New Delhi. (ii) Attended a Training-Cum-Workshop on "E-Resource Management" organized by the ICSSR-NERC, Shillong on 9th -10th March, 2009. (iii) Attended a Seminar-Cum-Workshop on "Information Library" on 6th June, 2008 organised by Kiang Nongbah Govt. College, Jowai.

Publication:

National Journals:

Laloo, B. and B.L. Tariang. Making Sense of the Retrieval Effectiveness of Web Search Engines. *Library HERALD*, 47:No.1.

Khongtim, J. 2008. Library Automation and Digitization. In: Proceedings of the National Seminar on Changing Role of LIS Professionals in Digital Era (Pravakar Rath, ed), 104-108.

Khongtim J. and R. Marbaniang. Information Needs and Search Strategies of Co-Ed College Students in Shillong: A Case study. *Library Herald*, 46: 280-294.

Books:

Moses M. Naga, et.al. 2008. Access to e-journals through UGC-INFONET Digital Library Consortium: A study of Usage among the Universities of North-East India. In: Premchand et. al (ed), Open Access. Open Source and Open Library, PLANNER.

Moses M. Naga. 2009. Open Access Through Community –Based Information Centres: A Challenge to Library Profession. In: N. Lahkar (ed) on Digitization of Libraries in North-East India.

Moses M. Naga and A.J. Singh, 2009. Universal Access through Common Services Centres (CSCs) for Rural Empowerment: A New Dimension for Librarianship. In: Th. Madhuri et.al.(ed) on Preservation and Conservation of Information Resources in knowledge Society: Issues, Challenges and trends.

Infrastructure facilities: The Department augmented the Computer Laboratory with 8 nodes Server based Thin Client Computers.

Other Activities

Moses M. Naga was the Course Coordinator of the Refresher Course in Library and Information Science organized by the Department of Library and Information Science, NEHU, during 19th August to 9th September, 2008. Delivered lectures in UGC-NET coaching classes for Library and Information Science students of NEHU during May-June, 2009.

Bikika Laloo attended a UGC sponsored Refresher Course in Library & Information Science held in NEHU from the 19th of August to 9th September, 2008. Awarded the Ph.D Degree by the Guwahati University on the topic "Retrieving Information on the Socio-Economic and Socio-cultural Conditions of North-East India Using Different internet Search Engines" on the 12th of August, 2008. She was a Resource Person during the workshop on "Maintenance of Library" for Library and Information Assistants of AIR and Doordarshan conducted by Prasar Bharati Broadcasting Corporation of India at Pohkseh, Shillong on 26th September, 2008. Acted as a resource Person in the UGC sponsored Third Orientation Course in Education conducted by the Department of Education, NEHU on 20th March and 1st April, 2009 and was appointed as Associate Professor in Library & Information Science Department on 27th March, 2009.

P. Hangsing delivered a lecture on "E-Resources Creation, Selection and Presentation", in the training cum-Workshop on "Resource Management" organized by the ICSSR-NERC, Shillong on 9th-10th March, 2009. Delivered three lectures on "Band-width Issues and Connectivity" in the UGC-ASC sponsored 4th Orientation Programme in Information Technology organized by the Bioinformatics Centre, North-Eastern Hill University, Shillong from March 23 to April 22, 2009. Delivered lectures on "Band-width Economics" and "Electronic Resources" in the UGC ASC Fourth orientation Course conducted by the Department of Education, NEHU, Shillong on the 24th March to 23rd April 2009. He was placed in the Senior Scale with effect from 10th April 2006.

Jiarlimon Khongtim attended Seminar-Cum-Workshop on "Information Library" organized by Kiang Nongbah Govt. College on 6th June, 2008. She also, attended UGC sponsored "Refresher Course in Library & Information Science" held in NEHU from the 19th August to 9th September, 2008.

DEPARTMENT OF ECONOMICS

Head : Professor B. Mishra
Telephone : 2723178(O), 2550391/2726178 (R)
E-mail : bmishra_nehu@hotmail.com

Thrust Area of Research: (1) Upland Economy of North-East India, (2) Institutional Economics, (3) Small Scale Industries, (4) Rural Development, (5) Human Development, (6) Public and Financial Economics and (7) Informal Sector and Environmental Economics.

Brief Statement of Academic Activities: During the year, the Department concentrated on its Post-Graduate teaching programmes and research. The faculty members participated in a number of regional, national and international Seminars/Conferences. They also published books and research papers in various national/international journals.

Faculty

Professors : S.K. Mishra, M.A. (Bhagalpur), MRP, Ph.D (IIT, Kharagpur)
N. Srivastav, M.A. (Rajasthan), Ph.D (IIT, Kanpur)
E.D. Thomas, M.A., Ph.D (NEHU)
P. Nayak, M.A. (Utkal), Ph.D (IIT, Kharagpur)
B. Mishra, M.A., Ph.D (Utkal)

Readers : U.K. De, M.Sc, Ph.D (Burdwan)
B. Panda, M.A. (Utkal), M.Phil (Berhampur), Ph.D (Utkal)
P.S. Suresh, M.A., M.Phil, (S.V. Univ., Tirupati), Ph.D (Hyd.)
B.K. Dutta, M.A., Ph.D (NEHU)
S. Umdor, M.A., Ph.D (NEHU)

Lecturers : W. Tariang, M.A. (NEHU)
D. Nongkynrih, M.A. (NEHU)
D.W. Thangkhiew, M.A.(NEHU)
D. Das, M.Sc (Guwahati)

Student intake:

Enrolment capacity: MA = 55, M.Phil = 20, Ph.D = 20

Actual Admission	SC	ST	Gen	OBC	Male	Female	From	From
Meghalaya								
Outside								
M.A.	-	50	3	2	22	33	44	11
Ph.D	6	5	1	-	5	1	4	2
Degrees Awarded :	SC	ST	Gen		Male	Female	Total	
MA	-	36	5		15	26	41	

M.Phil Awarded:

Sampurna Bhuyan, "Microfinance and Self Help Groups: A Case Study of Assam". Supervisor: Dr. B. Panda.

Ph.D Awarded:

(i) Manjit Das, "Problems and Prospects of Agriculture in Assam with Special Reference to Barpeta District". Supervisor: Dr. U.K. De.

(ii) Minakshi Chakraborty, "City size, Labour Productivity and Incidence of Child Labour: An Econometric Analysis", Supervisor: Dr. A.C. Dube and Prof. N. Srivastav (Jt. Supervisor).

Courses conducted:

M.A/M.Sc

Core Courses: Micro-economic Analysis- I, Macro-economic Analysis- I, Mathematics for Economists, Economics of Development -I, Public Economics, Micro Economic Analysis -II, Macro-economic Analysis- II, Techniques of Statistical Analysis, Economics of Development- II, Economics of Environment and Social Sector and Indian Economic Policy.

Open Courses: Budgetary Theory and Practice, Computer Applications in Economic Analysis, Econometrics, Economics of Social Sector, Institutional Economics and Welfare Economics.

Optional Courses: Industrial Economics-I, Industrial Economics-II, Labour Economics-I, Labour Economics-II, Econometrics-I, Econometrics-II, Demography-I, Demography-II, Economics of Agriculture-I, Economics of Agriculture-II, Economics of Gender and Development-I, Economics of Gender and Development-II, Computer Applications in Economics Analysis-I; Computer Applications in Economics Analy-

sis-II, Economics of Infrastructure-I; Economics of Infrastructure-II; Economics of Law, Welfare Economics-I; Welfare Economics-II; Economy of North-Eastern Region; Economics of Development-I; Economics of Development-II, Financial Economics-I; Financial Economics-II; Budgetary Theory and Practice

M. Phil

Recent Advances in Economic Theory; Scientific Methods and Quantitative Techniques; Major Issues of Indian Economy.

Seminars/Conferences/Symposia/Workshops/Extension Programmes etc.:

Organized:

Dr. B. Panda organized a three-days workshop for senior executives of public and private sector companies on the theme “Managing for the Future: The Business of Sustainability” from September 29 to October 1, 2008.

Attended:

Prof. N. Srivastav presented a paper entitled “Estimation of Production Functions for Small Scale Industries” and Chaired the II-B Session on ‘Energy and Environment’ in the 45th Annual Conference of the Indian Econometric Society organized by the Department of Economics, Gauhati University Guwahati during 7-9 January, 2009. He attended International Sub-Regional Conference of South, South-West and Central Asia on “Higher Education: Facing Global and Local Challenges’ organized by UNESCO and MHRD, GOI, New Delhi at Vigyan Bhavan, New Delhi during February 25-26, 2009. He also, presented a paper entitled “Indigenous Entrepreneurship Development in Small Scale Industrial Sector in Meghalaya” and Chaired the third Technical Session on “Human Factor in Entrepreneurship and Success Stories’ in the National Seminar on “Entrepreneurship in the Era of WTO” sponsored by AICTE, New Delhi and organized by Manipur Institute of Management Studies at Manipur University, Imphal during 6-7 March, 2009. He also presented a theme paper as a resource person entitled “Practicing and Practitioners in Small Scale Industries in Meghalaya” and Chaired the IIIrd session on ‘Strategies for Development of Small Business’ organized by the Department of Commerce, NEHU Shillong during March 23-24, 2009

Prof. E.D. Thomas chaired one session on “Responding to Global Climate Change” in the 12th National Conference on Responding to Global Climate Change and Community Education organized by the Indian Society for Community Education held at Pune on 19-21 February 2009.

Prof. P. Nayak presented a paper entitled "Structural Changes in Meghalaya: Theory and Evidence" in the national seminar on "Social Change in North-East India: Processes and Responses" organized by the Department of Sociology, NEHU, Shillong during 25-26 Nov, 2008 (Co-author: Prof. S.K. Mishra).

Prof. B. Mishra presented a paper entitled "Public Expenditure and Rural Development Problems and Prospects" in the National Seminar on "Rural Development in India: Prospects and Retrospects" organized by the Department of Economics, St. Joseph's College, Jakhama, Kohima, Nagaland during 21-22 Nov, 2008.

Dr. U.K. De participated and presented a paper on "Question of Food Security in North-East India in the Post Globalization Period" in the Regional Conference on Food Security and Sustainable Development organized by IGNOU in collaboration with Tripura University during November 24-25, 2008. He also, participated in two days Workshop on "E-Learning with focus on Education Internet Domain" organized by Centre for Distance Education, NEHU, Shillong in collaboration with Computer Centre, NEHU, Shillong during 18-19 March, 2009.

Dr. B. Panda chaired one Seminar on "Strategy to Integrate Social and Environmental Sustainability with Business Sustainability" in the three day workshop held in IIM Shillong Campus from Sept 29 to August 1, 2008.

Ms. W. Tariang attended a National Workshop on "Research Methodology and MATLAB" organized by CACE, NEHU, from 23-30 March, 2009.

Ms. D.W. Thangkhiew attended a National Workshop on "Research Methodology and MATLAB" organized by CACE, NEHU from 23-30, March 2009.

Publications:

International Journals

Mishra, S.K. 2008. A New Method of Robust Linear Regression Analysis: Some Monte Carlo Experiments. *Journal of Applied Economic Sciences*, 3: 261-269.

Mishra, S.K. 2008. Robust Two stage Least Squares: Some Monte Carlo Experiments. *Journal of Applied Economic Sciences*, 3: 434-443.

Barik, S.K. and S.K. Mishra. 2008. Assessment of the Contribution of Forests to the Economy of Northeastern States of India. *International Forestry Review*, 10: 349-361.

Mishra, S.K. 2008. Construction of Composite Indices in Presence of Outliers. Social Science Research Network, SSRN, New York http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1137644

Mishra, S.K. and M.L. Ngullie. 2008. Hedonic Demand for Rented House in Kohima, Nagaland" Social Science Research Network, SSRN, New York http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1231937.

What Determines the Academic and Professional Participation of Economists? http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1265044, SSRN, New York.

Mishra, S.K. 2008. On the Optimality of Academic Rankings of Regions with RePEc Data. <http://ideas.repec.org/p/pram/prapa/11098.html>, IDEAS, Munich.

Mishra, S.K. 2008. Construction of Maximin and Non-Elitist Composite Indices - Alternatives to Elitist Indices obtained by the Principal Components Analysis. www.mpra.ub.uni-muenchen.de/3338/, IDEAS, Munich.

Mishra, S.K. 2008. A Note on the Sub-Optimality of Rank Ordering of Objects on the Basis of the Leading Principal Component Factor Scores", http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1321369, SSRN, New York.

National Journals

Mishra, S.K. 2008. Potentials of Village and Small Enterprise Sector in the North Eastern Region of India. *The ICFAI Journal of Managerial Economics*, 6: 7-39.

Mishra, S.K. 2008. Completing correlation matrices of arbitrary order by differential evolution method of global optimization: A Fortran program, 2007, *GITAM Journal of Management*, 6: 71-77.

Mishra, S.K. 2008. Minimization of Keane's Bump Function By the Repulsive Particle Swarm and the Differential Evolution Methods. *The ICFAI University Journal of Computational Mathematics*, 1: 45-55.

Mishra, S.K. 2008. The nearest correlation matrix problem: A Solution by differential evolution method of global optimization. *Journal of Quantitative Economics*, 6: 240-262.

Srivastav, N and Syngkon, R.A.J. 2008. Emergence of small scale Industries and Entrepreneurship in the Rural Areas of North-Eastern States of India: An Analytical Approach. *The ICFAI University Journal of Entrepreneurship Development*, 5: 06-22.

Panda, B. 2008. Rural Non-Farm Employment in Thailand. *Journal of Rural Development*, 27.

Umdor, S. 2008. Behaviour of Rural Households in the Borrowing and Usage of Credit in North-East Uplands of India, *Indian Journal of Agricultural Economics*, 63: 211-223.

Umdor, S. 2009. Decentralized Planning in Sixth Scheduled Area of India: A Study of Meghalaya. *Journal of Man and Development*, 31: 33-92.

Book Publications:

Mishra, S.K. 2008. Possibilities of Quality Enhancement in Higher Education by intensive Use of Information Technology. In: Proceedings of the National Conference on Impact of Assessment and Accreditation of Educational Institutions of Higher Education in India., Shillong College Academic Society, Shillong (India), 92-111

Mishra, S.K. 2008. A Note on Human Development Indices with Income Equalities. In: Rout, H.S. and Panda, P.K. (Eds), *Human Development Dimensions and Strategies*, New Century Publications, New Delhi.

Srivastav, N. 2009. Industrial Development in the northeastern States of India: The case of service Industries. In: H.J. Baxi (ed) *Regional Disparities in India*, IB, I.U., Press Hyderabad, pp-80-103.

Nayak, P. 2008. A Human Development Approach to the States of Development in North East India. In: J.R. Dholakia (ed) *Perspectives on inclusive Growth in India*, The ICFAI University press, Hyderabad, pp 181-195.

Nayak, P. 2009. Status and Trend of Human Development in North-East Region of India. In: Rout, H.S. and P.K. Panda (eds) *Human Development Dimensions and Strategies*, News Century publications, New Delhi, pp-62-86.

Research Projects:

Ongoing:

Dr.B.Panda is has been sanctioned a Research Project on "Evaluation of National Rural Employment Guarantee Act (NREGA) in the states of Sikkim and Meghalaya" by the UNDP and Ministry of Rural Development, Govt. of India.

Completed:

Prof. B. Mishra and Dr.S. Umdor completed a Research project on "Problems

of Border Areas in North-East India: implications for Thirteenth Finance Commission (Meghalaya Chapter)".

Prof. Eugene D. Thomas, Prof. P. Nayak, and Dr. S. Umdor completed the research project "Functioning of Autonomous Councils in the Sixth Schedule States of Northeast India", supported by the Ministry of Tribal Affairs, Govt. of India. Project fund- Rs. 3,70,000/-.

Consultancy/Research support:

1. To Practical Action Group (Nepal) for 'Feasibility Study for Graving Rope Way Project in Meghalaya' (ongoing)
2. To State Resource Centre, NEHU, for 'Revaluation of Cooked Mid Day Meals Programme in Meghalaya', Government of Meghalaya (Completed)
3. A Study the problem and prospects of Development in Border Areas of Northeast India, Planning Commission, Govt. of India (completed).

Honours/Awards/Recognition:

Miss Debarchana Dey was awarded Wipro Academic Excellence Award by his Excellency the Governor of Meghalaya for securing the highest percentage of Marks in the 2nd Semester 2008.

Other activities:

Prof. N. Srivastav delivered two lectures on "Economics of Human Behavior" at the UGC refresher course organized by the Academic Staff College, Guwahati University, Gauhati on January 07, 2009.

Prof. N. Srivastav delivered two lectures on "The Expansion and Problems of Higher Education" and "Towards Inclusive Growth: An Approach to XIth Five Year Plan" to the UGC Orientation Course organized by the Department of Education, NEHU, Shillong on March 04, 2009. He also delivered two lectures on "India's Macro-economic Environment: Role of India's Public Sectors and Its Problems" and "Concept of Privatisation and Methods of Disinvestment" at the Regional Training Institute (IA & AD), NE Region, Shillong during March 13-14, 2009

Prof. B. Mishra delivered the Key Note Address in the National Seminar on "Rural Development, The Role of Decentralization" organized by the Department of Economics, Kampur College, Kampur, Assam during 11-12 Nov. 2008.

Dr. B. Panda participated and interated by invitation in the national workshop

on "Institutional Collaboration for Accelerating Awareness about NREGA" organized by the Ministry of Rural Development, Government of India at New Delhi on 1st August 2008. Attended and participated in the national meet of the sub-committee on HRD Sector Development in NER organized by the Ministry of DONER, Government of India in New Delhi in September 2008.

Dr. B. Panda attended and participated the conclave titled "Shillong; Because we care, we act" organized by Shillong times, Shillong, Meghalaya on 9-8-2008 at Hotel Pinewood.

Dr. B. Panda participated and interacted by invitation in the "Orientation Programme for Board Framework, Methodology, Sample size and Time Frame for NREGA Evaluation" organized by the Ministry of Rural Development, Government of India on 6th Nov, 2008 at New Delhi.

B. Panda attended and participated by invitation in the National Conference on "Thematic Groups (NER Vision 2020) organized by NEC, Shillong from Dec, 3-5 at Shillong.

Dr. B. Panda participated and interacted by invitation in the International seminar on "Rural Poverty Key initiatives in achieving Millennium Development Goals and the Role of National Rural Dr. B. Panda Employment Guarantee Act" organized by UNDP and Ministry of Rural Development Government of India in New Delhi, 21-22, January 2009.

Dr. B. Panda attended and participated by invitation in the national workshop on, "Management Research, Role of IIM Shillong" organized by IIM, Shillong on 27th March, 2009.

Talks Delivered in Refresher Courses/Training Programme

Prof. P. Nayak delivered two lectures, "Human Development in India" and "Human Development in Meghalaya" on 22nd December 2008 in the UGC Refresher Course in Education (2-23 Dec, 2008) organized by the Department of Education, NEHU, Shillong.

Prof. P. Nayak delivered two lectures "Human Development Conceptual and Methodological Issue" and "Human Development in North East India" on 5th January 2009 in the UGC Refresher Course in Economics (22 Dec, 2008 to 11 Jan 2009), organized by the Department of Economics, Guwahati University, Guwahati, Assam.

Prof. P. Nayak delivered one lecture "Role of Higher Education in Economic Development" on 13th March, 2009 in the UGC. Orientation Course in Education,

organized by the Department of Education, NEHU, Shillong.

Prof. P. Nayak delivered two lectures on "Data Analysis-I" & "Data Analysis-II" on 27th March 2009 in the Workshop on Research Methodology and MATLAB, organized by the Centre for Adult and Continuing Education, NEHU, Shillong.

Prof. B. Mishra delivered one lecture on "Tribal Fiscal Dilemma; Where Does it lead" on 20th December 2008 in the UGC Refresher Course in Education (2-23 Dec, 2008) organized by the Department of Education, NEHU, Shillong.

Prof. B. Mishra delivered two lectures "Externalities; The Genesis of Environmental Economics" and "Problems and Prospects of Resource Mobilisations in North East India" on 5th January 2009 in the UGC Refresher Course in Economics (22 Dec. 2008 to 11 Jan, 2009) organized by the Department of Economics, Gauhati University, Guwahati, Assam.

Prof. B. Mishra delivered one lecture, "Recession in Global Economy and its impact on Higher Education" on 3rd March 2009 in the UGC Orientation Course in Education, organized by the Department of education, NEHU, Shillong.

Prof. B. Mishra delivered two lectures on "Research Methodology" on 23rd March 2009 in the Workshop on *Research Methodology and MATLAB*, organized by the Centre for Adult and Continuing Education, NEHU, Shillong.

Dr. U.K. De delivered an invited lecture on "Privatization of Education" on 6-12, 2008 in the UGC Refresher Course in Education organized by the Department of Education, NEHU, Shillong.

Dr. U.K. De delivered an invited lecture on "Economic Value of Higher Education" on 2-18 Feb, 2009 in the UGC-ASC: Third Orientation Course in the Department of Education, NEHU, Shillong.

Dr. U.K. De delivered an invited lecture on "Valuation of Higher Education" and "Globalisation and Higher Education in India" in the UGC-ASC Orientation Programme for II on 4/4/2009 in the Academic Staff College, NEHU, Shillong.

Dr. B. Panda delivered on 2nd December 2008, two lectures respectively on "Indian's Look East Policy and the North East" and "Recent Global Meltdown and the Indian Economy" in the Refresher Course organized by the Department of Economics, Gauhati University.

Dr. B. Panda delivered a lecture on "Sustainable Enterprise Management" in the SERM Programme run by IIM Shillong in February 2009.

Dr. B. Panda delivered a lecture in November 2008 on “Sustainable Project Appraisal” in the Management Development Programme for Civil Service Officers of Meghalaya, organized by IIM, Shillong.

Dr. B. Panda delivered on 18th March, 2009, two lectures respectively on “Evolution of Development Economics” and “Team building and Work Culture” in the orientation course for faculties organized by the Department of Education, NEHU, Shillong.

Dr. B. Panda delivered a lecture on “Sampling and Sampling Design” in the Workshop on Research Methodology and MATLAB organized by the Centre for Adult and Continuing Education, NEHU, Shillong.

Ms. D. Nongkynrih was appointed as Panel member for restructuring the Syllabus for the Meghalaya Financial Service, MPSC (2009).

DEPARTMENT OF MANAGEMENT

Head : Prof. G. Singaiah
Telephone : 03651-224566(), 224655 (R)
E-mail : gsingaiah@yahoo.co.in

Thrust Area of Research: Cross-cultural Management, Entrepreneurship, Small Business Management, Tourism Management, Micro-Finance, Banking sector reforms, Agri- Business and Rural Marketing.

Brief Statement of Academic activities: The department of Management was established in July 2006 offering Master of Business Administration and Ph.D. Programmes. Students are admitted into MBA Programme based on MAT score and performance in group discussion and personal interview. To condition the students mindset to become ethically driven entrepreneurs and managers a blend of traditional and modern teaching pedagogy is followed by conducting series of Lectures, Case studies, Quizzes, Presentations and Assignments besides exposing them to regular industrial visits. Apart from regular Faculty members, practicing managers, guest and visiting faculty from premier institutes across the globe and invited to interact with our students and faculty for encouraging and strengthening cross- fertilization of ideas.

Faculty :

Professors : G. Singaiah, MBA (Andh.), Ph.D. (Utkal)
 Readers : K. Mishra, MMS, M.Com, Ph.D. (Lucknow)
 J. U. Ahmed, M.Com, Ph.D., (Assam)
 Lecturers : B.F. Lyngdoh, M.Com (Gauhati)
 D.H. Malini, MBA (SK)
 D. Bhagat, MBA (Assam Agri.)

Student Intake:

Enrollment capacity: MBA- 50

Actual Admission	SC/ST/Gen	Male	Female	Meghalaya	Non- Meghalaya	
MBA	22	28	39	11	10	40
Ph.D.	2	1	2	1	2	1

Placement of Students: The department has a fully network industry-university interface cell working under Dr. K. Mishra since 2006 and looking after the winter training the final placement of the students. The conscious efforts put in by the cell has resulted in some of the biggest corporate recruiters like Nestle, Dabur, WIPRO, ITC, HDFC, AMUL, REVN, PRADAN, ICICI, HDFC-SL etc., showing keen interest in our institution and students. The placement has been 100% with average CTC offered being 2.5. lakh. Three of our students of 2007 batch qualified UGC-NET of Dec., 2008.

Courses conducted: The Department offers 32 courses, out of which 20 courses are core subjects and one project work equivalent to two courses. Besides, 10 courses including 6 courses from major and 4 courses from minor specialization are to be pursued in each semester, students to pursue over two years of four semesters.

Industrial Tour/ regular Industrial Visits:

During 2008-09, Industrial Tour was organized from 27th December 2008 to 17th January, 2009. Students visited 32 industries and institutes at Jaipur, Ajmer, Delhi & Agra. Dr. K. Mishra was the in-charge of the Industrial tour. One day industrial visits were also conducted during this year.

Cashew nut factories in Mankachar during September 2008 (organized by Prof. G. Singaiah and Dr. K. Misira).

Dr. Deepak Bhagat took students of 1st semester 2008-09 batch for short industrial tour to agro-processing plant in Ganon Sangma Village.

Seminars/ Workshops:

Dr. K. Mishra attended and presented a paper in the 17th AMIC International Conference in Manila, Philippines, July 14-17, 2008. He also, attended and presented a paper titled Indian Civil aviations Sector: Future directions in India Institute of Tourism and Travel Management (An Organization of Ministry of Tourism, Govt. of India, January 17-18, 2009).

Dr. J.U. Ahmed (i) attended an International Conference on Business and Finance, 2009, ICFAI Business School Hyderabad, 9-10 January, 2009 and presented the paper titled " the Priority Sector Lending by Commercial Banks of India: An Empirical Analysis". (ii) attended an International Conference on Global Business and Management Forum, USA, Pearl, School of Business , Gurgaon, India, 7th to 9th November 2008 on " Loan Recovery and Asset Quality of Commercial Banks: An Empirical Analysis"; (iii) attended an International Conference on recent development in Economics, Finance and Accounting and Econometrics, Serial Publications, New Delhi, 8-12 September, 2008 on "An Analytic Study on Non-performing Assets of Public Sector Banks of India".

Mr. Benjamin F. Lyngdoh (i) attended International Conference of Microfinance held at Pondicherry University on 21st, 22nd and 23rd January, 2009 and presented a paper titled, " Micro Credit as Catalyst to Women Empowerment: Evidences and Observations"; (ii) attended a National Seminar on Microfinance held at Shillong Commerce College, Shillong during March, 2009.

Miss. D.H. Malini (i) presented a paper entitled " Age of Progression for Retailing in North Eastern Region" at National Seminar Organized by University of Mysore. Theme of the Seminar " Managing Uncertain Times", during 30th and 31st May, 2008; (ii) Presented a paper titled " Impact of Public Private Partnership on Women's Quality of Life: A Case Study in West Garo Hills district of Meghalaya", in International Conference on Public Private Partnership at Indian Institute of Management, Bangalore during 3rd to 6th of August 2008; (iii) Presented a paper titled " Impact of Information Technology on Reformation of Agribusiness: A Case Study of North East India", presented at IBS, Hyderabad during 25th-26th October , 2008; (iv) presented a paper titled " Road Ahead for Retail Industry in India" at IBS, Hyderabad during 5th and 6th of January, 2009.

Mr. Deepak Bhagat (i) presented a paper entitled " Restructuring Agriculture Extension in North East India for Promoting Agribusiness: A Shift from Extension to Supply Chain Management" for presentation in " National Seminar on Managing in Uncertain Times" Organized by B.N. Bahadur Institute of Management Sciences,

Manasagangothri, University of Mysore during “ 30th- 31st May, 2008; (ii) presented a jointly authored paper entitled “ Impact of Public –Private Partnership on Women’s Quality of Life: A Case Study in West Garo Hills District of Meghalaya” for Third Annual International Conference on Public Policy and Management” organized by Centre for Public Policy, Indian Institute of Management, Bangalore in Bangalore during 3rd – 6th August, 2008; (iii) presented a paper entitled “ Export Oriented Agribusiness and Globalization of Indian Economy: A Study of Performance and Competitiveness of Fruits and Vegetables Export after the Commencement of WTO Regime” in International Conference in Management on Managing Global Business Competition: World’s Best practices” organized by Department of Business Administration, Mohan Lal Sukhadia University, Udaipur (Rajasthan) in Udaipur during 22-24 September, 2008; (iv) presented a paper entitled “ Building of Grass Root Level Rural Institution and its Influence on Horticulture based Agribusiness Development : A study in West Garo Hills district of Meghalaya” in IFAD, FAC. Rice-Wheat Consortium India Society of Agriculture organized by Indian Council of Agricultural Research, New Delhi and National Academy Sciences, New Delhi in New Delhi during 4-7 February, 2009.

Publications:

Indian Journals:

Mishra, K. 2008. Correlates of Business Process Re-engineering: Issues and Challenges. *IIIEEE Journal of Information Sciences*, 45: 63-72

Ahmed, J.U. 2008. Public Sector Banks in the Barak Valley: A Study of Customer’s Satisfaction. *The NEHU Journal*, 55-74.

Ahmed, J.U. 2008. Practice of Environmental Accounting in India: An Overview. *The Accounting World ICAI Press*, 15-20.

Ahmed, J.U. 2009. Growth of Deposits and Its Determinants: A Pragmatic Study on Commercial Banks. *ICFAI Journal of Financial Economics*, 52-65.

Ahmed J.U. 2009. An Autopsy on the Operation of Commercial Banks in India. *Professional Banker ICAI Press*, 33-41.

Ahmed, J.U. 2008. Financial Status of Banks in Agriculture and Allied Sector in the Reform Era: An Empirical Diagnosis. *Nagaland University Research Journal*, 1-10.

Lyngdoh, B.F. 2008. Small and Medium Sized Business Opportunities in the Tourism Sector of Meghalaya. *The NEHU Journal*, 4: 111-119.

Lyngdoh, B.F. 2008. Microfinance and Women Empowerment: Some Evidences, *Man and Society, A Journal of North East Studies*, 81-96.

Maliñi, D.H. 2009. A Study on Brand Awareness with Reference to Customer Durables in Rural Markets at West Garo Hills, Meghalaya, Conference Proceedings Indian Institute of Management, Kozikode, Kerala.

Books Published:

Mishra, K. 2008. Substituting Social Inclusion for Equal Treatment: A Way to Achieve Just Outcomes, Traditional Law and Contemporary Problems. (Edited Book), Sage Publications India Pvt. Ltd., ISBN No-932-61-5623-126-6A.

Ahmed, J.U. 2008. Asset quality and non-Performing assets of Commercial banks. MD Publications Pvt. Ltd., New Delhi, India, ISBN No. 978-81-7533-146-4.

Ahmed, J.U. 2009. Efficiency of Commercial Banks in backward region, ICAI Univesity Press Hyderabad, India.

Ahmed, J.U. 2009. Development vision of North East India. (Edited Book), Concept Publisheng Company, New Delhi, India.

Ahmed, J.U. 2009. Human Resource Accounting in India Milieu, Contemporary Business Practices. (Edited Book), Indus Valley Publication, Jaipur, pp 1-10.

Lyngdoh, B.F. 2009. Micro Credit as Catalyst to Women Empowerment: Evidences and Observations, in *Microfinance: Performance Evaluation and Enterprise Development*. (Edited Book), Editors- Dr. D. Lazar and Prof. M. Deo, Pondicherry University, pp 304-315.

Bhagat, D. 2008. Export Oriented Agribusiness and Globalization of Indian economy: A Study of Performance and Competitiveness of Fruits and Vegetables Export After the Commencement of WTO Regime, *Managing Global Competition: A Holistic Approach*. (Edited Book), editors- D.S. Chundawat, Karunesh Sexena and Shishupal Singh Bhadu Published by Macmillan Indian Ltd, pp 575-586.

Infrastructural Facilities: The department is equipped with infrastructures facilities like Computer Lab with 30 PCs having Internet Facility and Library with 4500 Books and Journals.

Research Projects:

Ongoing: UGC major titled "Evaluation of entrepreneurial Motivation form Cross-Cultural Perspectives in the North East India". P.I.- Dr. G. Singaiah.

“Evaluation Study on Rural Telephony”, Funded by Planning Commission, New Delhi. P.I. - Dr. K. Mishra.

Honours/ Awards/ Recognitions:

Dr. K. Mishra was awarded travel grant to visit Manila, Philippines and attend 17th AMIC International Conference by Asian Media, Information and Communication Society July 14-17, 2008.

Other activities:

Dr. G. Singaiah organised the Cultural fest MOSAIC to showcase the essence and the importance of management education in the region on 11th November 2008. Around 350 students participated in various management related simulation exercise and events. Out students conducted this successfully showing their managerial competence. Acted as resource person in the Entrepreneurship development Programmes conducted by SISI and Department of Tourism at Tura.

Dr. K. Mishra taught a module (Leadership and Accountability) in Asian Institute of Management, Manila in their Master of Development Management Programme during July 18 Aug 01, 2008. Delivered lecturer on research Methods in the refresher Course organised by the Academic Staff College of University of Lucknow, Lucknow during Jan 09. Organised the “Personality Development and Job Readiness” Modules of “Employability Skills Development Programme”. Pro Hire conducted by ASPIRE under the aegis of placement cell at NEHU Tura Campus from 23rd March 28th March, 2008. Acted as Managing Editor, Mandate- A Journal of Development Management, Published by ICART, Lucknow.

Mr. Benjamin F. Lyngdoh attended an Orientation Programme conducted by Himachal Pradesh University, Shimla during June-July 2008. Life Member of Indian Commerce Association.

Ms. D.H. Malini delivered lecturers in BIT Institute of Engineering and Technology on “Managerial skills” during December 2008. Given extension Lecturers on “Case Method”, “Business Communication” during January 2009 at Sri Vasavi Institute for Management, Hindupur. Delivered Invited Lecturers on “Human Resource management”, College of Home science, Central Agricultural University, Tura, During October, 2008. Delivered Lectures at JNTU, Hyderabad, “Advertising Management”, during January 2009.

Mr. Deepak Bhagat provided training to unemployed rural youth of West Garo Hills on agribusiness and entrepreneurship development in a workshop organized by Department of Agriculture.

SCHOOL OF HUMANITIES AND EDUCATION

Dean : Professor Temsula Ao
Telephone : 2723501 (O), 2550642 (R) 9436103239 (M)
E-mail : deanshe@nehu.ac.in

The School comprises of the following Departments and Centres of Studies:
 Shillong Campus: English, Education, Khasi, Hindi, Linguistics, Philosophy,
 Centre for Adult and Continuing Education, Centre for Distance Education.
 Tura Campus: Education, English and Garo. Apart from the regular teaching and
 research work, the Departments have been organizing Refresher Courses, Seminar
 and Workshop in Collaboration with outside agencies from time to time. The
 Department of Education organized Refresher Course from 2nd November to 23rd
 December 2008 on the topic Foundation of Education for University and College
 Teachers. Also a 3rd Orientation Course was conducted from 23rd February to 21st
 March, 2009. The Department of Philosophy organized a National Seminar on
 "Hermeneutics of Philosophy, Politics and Culture from 19th November to 21st
 November, 2009 sponsored by ICPR. The Department of English organized
 Communicative English Workshop from 23rd to 24th September, 2008 in collaboration
 with Cambridge University Press India. A Refresher Course started from 25th February
 till 18th March, 2009 on the theme "Teaching of English in Indian Classrooms" by the
 Department of English. The Department of Hindi organized a National Seminar on
 "Purvoetta Bharat Ka Sahitya aur Hindi Ki Bhumika" in collaborations with North
 Eastern Council on 4th to 6th June, 2009. Also a National Seminar on " Manviki
 Vishayon mei Takaniki Shabda Nirman Evam Vaigyanika Lekhan" in collaboration
 with commission for Scientific and technical terminology, MHRD, New Delhi was
 held on 19th to 21st September 2008. The Department of Linguistics organized an
 International Conference on World Languages on North East Language,
 Convergence, Enrichment or Death from 18th to 20th March, 2009. The Centre for
 Distance Education organized the Workshop on E-Learning with focus on Educational
 internet domain on 18th, 19 March 2009 for the academic counselors from the entire
 North East India. The Centre for Adult and Continuing Education organized a three

School of Humanities and Education

days workshop on disaster management, preparedness, prevention and-mitigation from 5th to 7th November 2008. The National Workshop for development of Arithmetic teaching tools for illiterates and Neo-literates from 9th to 13th March 2009 at CACE and National Workshop on Research Methodology and MATLAB from 23rd to 30th March 2009. The Departments of Philosophy, English, Khasi, Linguistics and Education organized Study Tours for students taking them to various places in the country to be set Universities as well as places of historic interest. All the Departments under the school have introduced CBCS with open and core courses from August 2008.

DEPARTMENT OF EDUCATION

Head : Professor R.S.Wangu
Telephone : 2723340, 2723347(O), 2522595 (R)
Email : hodedu@nehu.ac.in

Thrust Areas of Research: System of Education in the North East Correlates of Achievement. Test Construction and Standardization . Environmental Education.

Brief Statement of Academic Activities: Besides regular teaching and research work, the department conducted course seminars in which students of both semesters presented their papers on various topics. The department was engaged in the Project Appraisal of Sarva Shiksha Abhiyan(SSA) of the Ministry of Human Resource Development, Govt. of India, for the State of Meghalaya during the year 2008-09. The department also organized one Annual Conference of North East India Education Society from 24th to 25th July 2008 under the sponsorship of North East Council, Shillong and NERC-ICSSR, Shillong, one Refresher Course in Education from 2nd to 23rd Dec 2008 and two orientation courses from 23rd Feb to 21st March 2009 and 24th March to 23rd April 2009, under the auspices of UGC-Academic Staff College, NEHU, Shillong.

Faculty

- Professors : R.S.Wangu, MA ; M.Ed; Ph.D, (Panjab)
 P. K. Gupta, M..Sc (Agra); M.Ed (Delhi); M.Phil; Ph.D.
 (Merrut)
 : A. Henia, M.A, (Gauhati); M.Phil; Ph.D. (JNU)
 S. M. Sungoh, M.A; M.Phil; Ph.D. (NEHU)
- Readers : K. M. Warjri, M.Ed; Ph.D. (NEHU)
 C. Nongbri, M.A; M.Ed; Ph.D. (NEHU)
- Lecturers : B. B. Rymbai, MA; Ph.D (NEHU)
 : Ibadani Syiemlieh MA; (NEHU)

Student Intake:

MA

Enrolment Capacity : 45

Actual Admission :						From	Outside	Total
SC	ST	Gen	Male	Female	Meghalaya	Meghalaya		
-	45	-	3	42	33	12	45	

M.Ed

Enrolment Capacity : 23

Actual Admission :						From	Outside	Total
SC	ST	Gen	Male	Female	Meghalaya	Meghalaya		
-	21	2	7	16	22	1	23	

Ph.D

Enrolment Capacity : 10

Actual Admission :						From	Outside	Total
SC	ST	Gen	Male	Female	Meghalaya	Meghalaya		
-	5	1	2	4	3	3	6	

Degrees awarded:

	SC	ST	Gen	Male	Female	Total
M.A.	-	38	3	1	40	41
M.Ed.	-	11	1	3	8	11

Courses conducted:

MA

Semester- i: Philosophy of Education, Psychology of Education, Research Methodology and Statistics in Education (I&II), Educational Management and Change.

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Semester-II : Curriculum Development and Instruction, Sociology of Education, Educational Testing and Evaluation, Environmental Education & Mental Health Education.

Semester-III : Educational Technology, Educational Systems in a Comparative Perspective, Early Childhood Education, Teacher Education.

Semester-IV : Laboratory Practical, Higher Education in India, Guidance and Counseling, Methods of Teaching at Tertiary Level.

MEd

Semester- I : Foundations of Education; Educational Psychology; methodology of Educational Research (I & II); System of Teacher Education in India.

Semester-II : Theory and Practice of Teaching; Educational Testing; Dissertation, Educational Planning & Finance and Mental Health Education.

Study tours/field trips of students:

Students of third Semester were taken on a study tour to Kolkata-Puri-Bhubaneswar from 30th January 2008 to 11th February 2009. Dr. (Mrs) B.B. Rymbai, escorted the students..

Seminars/Conférences/Symposium/ Extension programmes, etc.

Organized

Prof. P.K.Gupta: As Course Coordinator, organized Third Orientation Course for College & University Teachers under the auspices of UGC-Academic Staff College at Department of Education, NEHU, Shillong from 23rd February to 21st March 2009. As Conference Director he organized 17th Annual Conference-Cum-Workshop on the theme "Education in the North East: Status & Perspective" jointly arranged by Department of Education, NEHU Shillong and North East India Education Society (NEIES) Shillong at NEHU. Conference Hall from 24th to 25th July 2008 under the sponsorship of North East Council, Shillong and NERC-ICSSR, Shillong.

Prof. A. Henia: As Coordinator, she organized a three week UGC sponsored Refresher Course in Education on the theme 'Foundation of Education' for University and College Teachers under auspices of UGC-ASC at Department of Education, NEHU, Shillong from 2nd - 23 Dec, 2008.

Prof. S.M.Sungoh : As Coordinator, organized Orientation Course for College and University Teachers under theauspices of UGC-ASC at the Department of Education, NEHU, Shillong from 24th March to 23rd April 2009.

Dr. C. Nongbri: As Secretary, organized the 17th Annual Conference-Cum-Workshop of NEIES from July 24th – 25th 2008 on the theme “Education in the North East: Status and Perspective” held at Department of Education, NEHU, Shillong and NEIES, Shillong in collaboration with NEC, Shillong and ICSSR, NERC NEHU Campus

Attended

Prof. R.S. Wangu chaired the Second Academic session of the 17th Annual Conference –cum-workshop jointly organized by Department of Education, NEHU, Shillong and North East India Education Society, (NEIES) Shillong at NEHU Conference Hall under the sponsorship of North East Council, Shillong and NERC-ICSSR- Shillong from 24th and 25th July 2008. he also chaired the Inaugural Session of the Third Orientation Course for College and University Teacher’s organized by Academic Staff College, NEHU, at Department of Education, NEHU, Shillong on 23rd Feb 2009.

Prof. P.K. Gupta chaired the Third Academic Session of the National Conference on the theme “Impact of Assessment & Accreditation of Educational Institutions of Higher Education in India”. Organized by Internal Quality Assurance Cell, Shillong College, Shillong and sponsored by NUEPA & UGC (NER) New Delhi and NEC Shillong on 18th June 2008. He presented a Paper Titled “Education and Socio-Economic Development of the North East” in the 17th Annual Conference –cum-Workshop jointly organized by Department of Education, NEHU, Shillong and North East India Education Society, (NEIES) Shillong at NEHU Conference Hall under the sponsorship of North East Council, Shillong and NERC-ICSSR- Shillong. from 24th and 25th July 2008. As Guest of Honour he delivered Thematic Address at the Inaugural session of UGC sponsored National Seminar on “Role of Higher Education Institutions in the Development of Society in North Eastern Region organized by Jhanji HNS College, Jhanji Dist Shivagar (Assam) on 22nd July 2008. As Resource Person he delivered two lectures on the topics (i) Continuous Comprehensive Evaluation (ii) Examination Stress and Anxiety in the workshop on Capacity Building of Key Resource Persons of Meghalaya Board of School Education on Question Setting in Social Science and Sciences at Secondary Level” organized by NERI, Shillong on 17th & 19th Dec 2008. As a Resource Person he initiated the discussion on “Education Indicators: Access, Retention and Quality” in a National Conference on the Vision of NCERT organized by Department of Computer Education and Technological Aids, NCERT, New Delhi, on 29th Jan 2009.

Prof. A. Henia presented a paper on ‘Accreditation and Quality in higher

Education' in the National Conference on Impact of Assessment and Accreditation of Educational institutions of Higher Education in India. Organized by Internal Quality Assurance Cell, Shillong College, Shillong from June 17-18, 2008. (ii). presented a paper on 'Global Peace Through Education in the International Conference on Blending Education, Science and Spirituality for a Better World'. Organized by Council for Teacher Education, Assam Chapter & Commonwealth Management and Administration held at Guwahati, from November 14-16, 2008. (iii). presented a paper on 'Quality Research in Distance Education System' in the 14th Annual Conference of the IDEA, 2008, Organized by Institute of Distance and Open Learning. sponsored and Collaborated by UNESCO, Commonwealth of Learning held at Guwahati, on 15th November 2008. (iv). Presented a paper on 'University Education in N.E' in the Annual Conference Cum workshop of the NEIES, organized by Deptt. Of Education, NEHU, at Shillong on July 24, 2009.

Prof. (Mrs) S.M. Sungoh presented a paper on "Education in the North-East: Status and Perspective with respect to Teacher Education in the State of Meghalaya" in the Seventeenth NEIES Annual Conference held in NEHU, Conference Hall Shillong on 24th July, 2008.

Dr. C. Nongbri presented a paper on "Total Quality Management Approach in Higher Educational Institutions-Methodology for Implementation" in the two day National Conference on "Impact of Assessment and Accreditation of Educational institution of Higher Education in India" organized by the Internal Quality Assurance Cell in collaboration with Shillong College Academic Society, Shillong from June 17-18, 2008 and Presented two papers on 'Educational Administration and Management in Meghalaya" and "Elementary Education in Meghalaya" in the 17th Annual Conference-Cum-Workshop jointly organized by Department of Education, NEHU, Shillong and NEIES, Shillong in collaboration with NEC, Shillong and ICSSR, NERC NEHU Campus, from 24th – 25th July 2008. He also presented presented a paper on Access of Education to Girl Child in North East India in the First International Convention of Unitarian Universalist Women held at Houston, Texas, U.S.A. on February 26- March 1st 2009, organized by the South West Unitarian Universalist Women and the Unitarian Universalist Partner Church Council. The Theme was Weaving Global Partnerships to Enrich Women's Lives.

Dr. Brinda Bazeley Rymbai presented a paper " Role of Internal Quality Assurance Cell in Higher Education" in the National Conference on Impact of Assessment & Accreditation of Educational Institutions of Higher Education in India organized by Internal Quality Assurance Cell, Shillong College, in collaboration with

Shillong College Academic Society on 17th & 18th June 2008; She also presented a paper on "Higher Education in Meghalaya" in the Seventeenth Annual Conference of North East India Education Society (NEIES), at NEHU Conference Hall, Shillong on 24th & 25th July 2008. As a Resource Person he delivered three lectures in IGNOU Extension Programme on (i) Role of teacher in Higher Education and (ii) Role and Functions of UGC in Present Context and (iii) Strategies for Enhancing Student Motivation from 20th – 29th May 2008.

Publications:

Paper Publication:

Tandon P. and P.K. Gupta 2008. Quality and Relevance in Higher Education: *University News*, 46, 14-22.

Gupta, P.K. 2007. Constructivism in School Education. In: Proceedings of Sixteenth Annual Conference of North East India Education Society (NEIES), Shillong, (Released in 2008), 3-9.

Henia, A. 2008. Population Growth, Environment and Population Education in North East. In: Ray, A.K & Sengupta, S (Ed), Population Dynamics in North East India, OM Publication, New Delhi, 117-121.

Henia, A. 2008. Accreditation and Quality in Higher Education. In the proceeding of the 'National Conference on Impact of Assessment and Accreditation of Educational Institutions of Higher Education in India'. IQAC, Shillong College, Shillong, 30-33.

Henia, A. 2008. National Integration and Education. *Journal of Education North East*, 12: 81-83.

Henia, A. 2008. Teacher Education for Secondary Level in North East India. In: Proceedings of North East India Education Society, 16th Annual Conference of NEIES, 222-25.

Nongbri, C. 2008. Teacher Development and Quality of Elementary Schools in Meghalaya" In: Proceedings of North East India Education Society (NEIES), Sixteenth Annual Conference of NEIES, 81-8.

Nongbri, C. 2008. Challenges Facing Indian Higher Education in the 21st Century. *Journal of North East India Education Society (NEIES)*, 49-56.

Nongbri, C. 2008. Total Quality Management Approach in Higher Educational Institutions: Methodology for Implementation. In: Proceedings of the conference on Impact of Assessment and Accreditation of Educational Institution of Higher Education

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in India, Internal Quality Assurance Cell in collaboration with Shillong College Academic Society, Shillong, 7-15.

Rymbai, B. B. 2008. Role of IQAC in Ensuring Quality Education. In: Proceedings of the Conference on Impact of Assessment & Accreditation of Educational Institutions of Higher Education in India.

Syiem, I. 2007. Role of the Meghalaya State Council of Science & Technology in Popularizing Science & Making Science Education at the School level a living and enriching experience. In: Proceedings of North East India Education Society (NEIES), (Released in 2008).

Book Publication:

Sungoh, S.M. 2007. Quality Issues in Teacher Education. In: *Education in India*, Ed.: by Shubha Tiwari, Atlantic Publishers and Distributors, New Delhi. pp 153-164

Funds received from agencies other than NEHU:

MHRD 1.65 Lakhs

Infrastructure facilities acquired during the year :

Computers	10 Nos
UPSs	10 Nos
Computer Table	10 Nos
Inverter with Battery	2 Nos

Research projects:

Completed

A comprehensive study on drop out at elementary stage in Meghalaya, Prpincipal Investigator Prof. R.S.Wangu, Team members: Prof. S. M. Sungoh & Dr. C. Nongbri, Sanctioned, Rs.5.6 lakhs, Govt. of Meghalaya.

Any other Activities:

Prof. P.K. Gupta was appointed the President of North East India Education Society (NEIES) w.e.f. July 2008. He Became Member of Meghalaya Board of School Education (MBOSE), on 10th Dec 2008. He delivered four lectures on 'Skills of Teaching and Micro-Teaching at the Refresher Course in Geography organized by Department of Geography, NEHU, Shillong from 1st to 4th August 2008. He worked

as a member of the working Group for drafting the State Education Policy, Department of Education - Govt of Meghalaya, Shillong from 24th Feb to 18th Oct 2008. He delivered two lectures on the topics (i) Pedagogy of Oppressed and (ii) Good Teaching in the UGC sponsored Refresher Course in Political Science at Academic Staff College, NEHU, Shillong on 3rd & 4th Nov 2008, delivered a lecture on "Effective Teaching" in the Refresher Course in English organized by Department of English, NEHU, Shillong on 12th March 2009, delivered a series of lectures on Psychology to B.Sc Nursing (1st Year) course at Nursing College, North East Indira Gandhi Regional Instt of Health & Medical Sciences from Sept 2008 to Feb 2009.

Prof. S.M.Sungoh attended and participated as a Resource person for the workshop on "Development of Tools for the Research Studies" conducted by DIET Lecturers on 25th – 29th August 2008.

Dr. C. Nongbri was appointed Monitoring Coordinator SSA, Department of Education, NEHU, Shillong-22 for the State of Meghalaya, 2008-09 and conducted a five days Training Programme for school teachers from 28th January to 1st February, 2008 at Jowai, Jaintia Hills. Meghalaya.

DEPARTMENT OF EDUCATION (TURA)

Head : Dr. Bishnu Charan Das
Telephone : 2202558 (0), 9436313059
E- mail : dasbishnucharan @yahoo.co.in

Thrust Areas of Research: The Department of Education, NEHU, Tura Campus was established in August 2001. Since then, it has been offering two years M.A. and Ph.D. Programmes in Education. Value and Peace Education, Teacher Education, Method of Teaching at Tertiary Level, Special education, and Elementary Education are the thrust areas of study and research in the Department.

Brief Statement of Academic Activities: During 2008-09, the Department concentrated on post-graduate teaching and research. The faculty members participated in National Seminars and published research papers and books. 2006-2008 Batch of students have successfully completed the M.A. Programme in

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Education. Six scholars have been admitted for Ph.D. Programme in Education. The Department has a well established psychological Laboratory with adequate number of Psychological tests and equipments.

Faculty:

Reader : Dr. B.C. Das , M.A. (Utkal), M.Phil. (Indore) Ph.D. (B.H.U.)
 Lecturer : Dr. (Mrs.) Nikme S.C. Momin, M.A. (NEHU).
 Dr. S.C. Subudhi, M.A, M.Phil, Ph.D. (Kurkshetra)
 Dr. Madhusudan J.V., M.Ed., M.Phil, Ph.D. (Gulbarga)

Student intake:

Enrolment capacity -27

Actual Admission :						From	
	OBC/SC/ST/GEN	Male/Female				Meghalaya	Outside
	01 - 26 -	5 22				25	02

Ph.D.	OBC/SC/ST/GEN	Male/Female			From	
					Meghalaya.	Outside
	- 1 03 02	02 04			03	03

Degrees awarded	OBC	SC	ST	GEN	Male	Female	Total
M.A.	-	-	18	-	4	14	18

Ph.D. Degree awarded:

(i). Mr. Basanta Gogoi- Development of self learning materials and its effectiveness for teaching general science to class IX students of Assam State, Supervisor Dr. B.C. Das; (ii). Mr. Lekhan Gogoi-A Cultural study of existing systems of teaching and learning in secondary Teachers Education, Institution in Assam, Supervisor: Dr. B.D. Sharma; (iii). Mrs. Nikme S.C. Momin personal values and teaching competency among secondary school teachers: a cross culture analysis. Supervisor: Dr. B.D. Momin

Placement of Students: Most of the students after passing out of the department find jobs in Secondary and Higher Secondary Schools. A few are also absorbed in State Government Departments and Colleges.

Courses conducted:

MA (Education)

Semester- I: Philosophy of Education, Psychology of Education, Research

(CBCS-New Course) Methodology and Statistics in Education (I&II), Educational Management and Change.

Semester-II: Curriculum Development and Instruction, Sociology of Education, (CBCS-New Course) Educational Testing and Evaluation, Environmental Education & Mental Health Education.

Semester-III: Educational Technology, Educational Systems in a Comparative Perspective, Early Childhood Education, Teacher Education.

Semester-IV: Laboratory Practical, Higher Education in India, Guidance and Counseling, Methods of Teaching at Tertiary Level.

Study tours / field tropes of students : Nineteen students were taken to Delhi, Amritsar and Agra during 4-13 February 2009. Dr. S.C. Subudhi was the teacher incharge. The students visited various places of Educational Institution.

Seminar/ Conference/ Symposia/ extension Programmes:

Attended

Dr. S.C. Subudhi presented a paper in two days National Seminar at Begunia College, Begunia, Khurda, Orrisa on 23rd - 24th March, 2008. Topic Entitled 'Educating HIV and AIDS.

Dr. Madhyusudan J.V. presented a paper (presented by second author) on the Schooling of Children by Standard of Living and Place of Residence in Karnataka' at National Seminar on strategies to reduce the problem of premature withdrawn of girls from Schools in Secondary education (sponsored by National University of Education Planning and Administration, New Delhi and Organised by Ashirwad rural Development Trust, Chikbalapur, Bangalore from 24-26 October 2008) (with Sriddhar B and Sharanbasawraj P.).

Publications:

Journal Publications:

Das, B.C. 2008. Facilitative factors in the Spread of Innovations in Teacher Education, *University News*, 46: 21-25.

Momin, S.C. 2008. Exploring an Approach to Value of Education for Meghalaya Board of School Education. *Journal of North East India Education Society*, 12: 4902.

Subudhi, S.C. 2008. Quality Improvement of Early Childhood Care and Education in Integrated Child Development Scheme. *Journal of Teacher Education*

and Research, 3: 56-62.

Suhudhi, S.C. 2009. A Case study of an autistic Board Spectrum Syndrome. *Sikshachintan Journal of Education*, 3: 18-23.

Book Publications:

Das, B.C. 2009. Management of Teacher Education, APH, Publishing Corporation New Delhi, pp 220.

Momin, S.C. 2009. Understanding across Cultures of North eastern India: A Special Reference to Meghalaya. DVS Publishers, Guwahati.

Research Projects:

Ongoing:

Dr. S.C. Subudhi, 'A study of Training needs and Motivation of Special School Teachers of Meghalaya. Rs. 2.12 lakhs from the ICSSR, New Delhi., P.I. Dr. S.C. Subudhi..

Recent Trends and Current challenges in primary Schooling in the North Eastern States of India: A Study: financial assistance of Rs. 1,93,500/- from Indian Council for Social Science Research, New Delhi, P.I. : Dr. J.V. Madhusudan.

Dr. (Mrs.) Nikme S.C. Momin, Research Project on a study on "Cases of Illiteracy in West Garo Hills District of Meghalaya": Financial assistance of Rs. 10,000/- from the State Resource Centre, North-Eastern Hill University, Shillong.

Research Consultant:

Dr. S.C. Subudhi, completed research Project on ' a Study of Minimize the Weakness in Mathematics of Class IV Students of east Garo Hills District of Meghalaya: An action Research' : Funded by SSA State Mission Authority Financial assistance :Rs. 1,50,000/-.

Other Activities

Dr.(Mrs.) Nikme S.C. Momin, participated in a workshop on "Translation of A`Chik Folklore/Folktales" on 3rd April, 2009 organized by the Department of Art & Culture, Government of Meghalaya at District Library and Auditorium, Tura, Meghalaya. She also participated in a UGC sponsored workshop on "Capacity Building for Women Mangers in higher education" 29th April to 3rd May, 2009 in collaboration with NEHU at Hotel Rikman Tura, Meghalaya.

Dr. S. C. Subudhi delivered a lecturer in an Orientation Programme for Master Trainers of Science and Mathematics for Teachers of Tura, Meghalaya at DIET, Tura, organized by NERIE, NCERT, Shillong, from 20th to 26th June 2008. The topic was entitled " How to evaluate own class room teaching". He also delivered four lecturers in a training programme for DIET faculties of Mizoram and Tripura state on action Research of NERIE, NCERT, Shillong, from 2nd September to 5th September 2008.

DEPARTMENT OF ENGLISH

Head : Professor Esther Syiem (upto 31st March 2009)
Telephone : 2723503/2723513
E-mail : moonzip2002@yahoo.co.in

Thrust Area of Research: The thrust areas are : emerging trends in British Literature, Post-Colonial Literature, American Literature, New Literatures and Literature in Translation. The Department also focuses on engaging with theory for understanding and analyzing texts. In recent times faculty members and research scholars from the department have evinced a lot of interest in the Literatures of North-East in English and in translation. Comparative studies of newly emerging literatures of the world are also being done. Attempts have been made to conduct interdisciplinary studies involving areas such as theatre, performance, music, history, anthropology and films. Popular culture and folk traditions have also received their share of attention.

Brief statement of academic activities: The Department is offering CBCS with Open and Core Courses. Apart from regular teaching and research guidance, the Department has organised academic activities such as seminars, talks, film shows and book releases. A Workshop on Communicative English was held on 23 and 24 September 2008 in collaboration with Cambridge University Press in which 40 college teachers participated. Dr. K. Rajeevan, former Professor, CIEFL, Hyderabad, presently Chief Publishing Manager, CUP, conducted the workshop. The faculty is actively engaged in guiding research at the M.Phil and Ph.D levels. Seven candidates have been awarded M.Phil degree and another two the Ph.D degree. The Department organised a Refresher Course on "Teaching of English in Indian Classrooms" from

School of Humanities and Education

25 February to 18th March 2009. Faculty members have published extensively on creative and critical subjects (including several books) and they have been favourably reviewed. Students from the Department have participated in competitions and department seminars and won many prizes at the Varsity Meet. The Department is working in collaboration with The Shillong Forum for English Studies to bring out anthologies and text-books to service the Under Graduate Syllabus.

Faculty :

- Professors** : T. Ao, MA (Gauhati), DTE (CIEFL), Ph.D (NEHU)
 Esther Syiem, MA (Delhi), M.Phil and Ph.D(NEHU)
- Readers** : M.M. Mazumdar, M.A. (NEHU), DDE(IGNOU), Ph.D (NEHU)
 Mala Renganathan, M.A.(Madurai), MPhil (Pondicherry), Ph.D (Madurai)
 S.Bhattacharjee, MA, MPhil and Ph.D (NEHU)
 Utpala Sewa, M.A, MPhil and Ph.D (NEHU)
 Kynpham Sing Nongkynrih: MA and PhD (NEHU)
- Lecturers** : N. Ganguly, MA (NEHU)
 N. Syiem, MA (NEHU), MPhil (Delhi)
 Ng. Rabindra Singh, MA (NEHU)
 Langkumar K. War: MA (NEHU)
 Namrata Chaturvedi: MA & MPhil (JNU) (since resigned)

Student intake:

Enrolment capacity: 50

Actual Admission	SC	ST	Genl	OBC	Total	From	From		
M.A.	M-F	M-F	M-F	M-F		Meghalaya	Outside		
1 st Semester	-	-	9	39	-	1	50	34	16
3 rd Semester	-	-	9	30	-	9	48	35	13
Ph.D.	-	-	1	2	2	4	9	2	7
Degrees Awarded:	SC	ST	Genl.	OBC	Total				
	M-F	M-F	M-F	M-F					
M.A.(2 nd Class)	-	-	4	19	-	3	-	26	
M.A. (Simple Pass)	-	-	2	13	2	-	-	17	

Ph.D. awarded:

Cherrie L. Chhange "A Standing Self against the World: The Black Womanist Perspective in Alice Walker's Fiction." Supervisor: Prof. Esther Syiem.

Kevileno Sakhrie "Folk Modes of Narration in Toni Morrison's Fiction."

Supervisor: Prof. T. Ao.

Courses conducted:

Semester I: Poetry I, Fiction I, Drama I, Literary Theory & Criticism I, American Literature I.

Semester II: Poetry II, Fiction II, Drama II, Literary Theory & Criticism II, Commonwealth Literature (Option A), World Literature in Translation (Option B).

Semester III: Poetry III, Shakespeare I, Literary Theory & Criticism III, American Literature II, Indian Fiction in Translation (Option A), Women's Writing (Option B).

Semester IV: Fiction III, Drama III, Shakespeare II, Literary Theory & Criticism IV, Environment & Indian Writing in English.

Study tours/field trips of students :

The 4th semester students were taken on a study tour to Mumbai, Goa and Kolkata from 5th January 2009 to 22nd January 2009, with Mr. Lang Kupar K. War, as the teacher-in-charge.

Seminars/conferences/symposia/workshops/extension programmes etc.

Organised

The department conducted a UGC-ASC Refresher Course in English on the theme "Teaching of English in the Indian Classroom" from 25th February 2009 to 18th March 2009 with Dr. Moon Moon Mazumdar as Course Coordinator. There were 30 participants.

Attended

Temsula Ao participated from 1st to 3rd September 2008 in "North East Poets Meet" at Jamia Millia. Delivered a lecture and read own poems. Asmita at Sahitya Akademi. Read own poems. She chaired a session and read own poems on 19th October at the "North-Eastern and Western Writers' Meet" on 18th to 19th October 2008 at Pune. She delivered the presidential address in the "North-Eastern and Western Poetry Festival" at Panaji, Goa held from 13th to 14th December 2008 and visited the Universities of Basel and Zurich from January 29th to February 6th, 2009 as a Member of the Naga Delegation sponsored by Panos South-Asia. Delivered a lecture on Literature and Conflict and read poems from own books at the University of Basel on 30th January, 2009. She delivered a lecture on 'Naga way of Life' with specific reference to 'Grandmother' on 6th February 2009 in the University of Zurich.

Esther Syiem presented paper entitled, 'The Influence and Assimilation of Folklore in the Poetry of North-East India' in a "Symposium on Influence and Assimilation of Folklore and Folk Forms" in the context of the Poetry of the North-East org. by Sahitya Akademi, North East Centre for Oral Literature, Shillong in collaboration with K.L. Bajoria college, Shillong on 2nd August 2008. She presented a paper titled 'Interpreting Oral Literatures: Multiple Choices' in the "Seminar on Oral literary Criticism" organized by Sahitya Akademi on 9th & 10th Sept 2008 in NEHU, Shillong. She chaired (i). Session on 'Uniqueness of Meghalaya Folklore, Culture & Landscape' in a "Poetry Reading Festival" organized by Sahitya Akademi and Dept. of Khasi, NEHU on 30th October 2008; (ii). Session in "1st International Conference on World Language & North East Languages: Convergence, Enrichment or Death?" Organized by Dept of Linguistics NEHU, Shillong in collaboration with CIIL, Mysore, NEC, Shillong, ICSSR on 18th-20th March 2009; (iii). Session and read out poems in "North East Woman Writers' Meet" in Imphal, Manipur organized by LEIKOL, Imphal in collaboration with Department. of Art and Culture Government of Manipur and NEIZCC, Dimapur on 29th-31st January 2009.

Moon Moon Mazumdar: Coordinated Refresher Course in English "Teaching of English in the Indian Classroom" from 25th February 2009 to 18th March 2009. Lectured on the topic 'Life & Literature' at the UGC – ASC Orientation Course organized by Department of Education, NEHU, on 21 March 2009.

Sukalpa Bhattacharjee presented a paper: (i). 'Hermeneutics of the Literary Canon: Narrative and Identity' in the National Seminar on "Hermeneutics of Philosophy, Politics and Culture" organized by Philosophy Department, NEHU, Shillong between 19-21 November 2008 and sponsored by ICSSR-ICPR, New Delhi. (ii). 'Narrative as History or his/story Otherwise' at the National Seminar on "Literatures and Oratures as Knowledge Systems: Texts From The North-East" organized by the Centre of Advanced Study, Department of Comparative Literature, Jadavpur University, Kolkata between 14-16 of January 2009 and sponsored by MAKAIS, Kolkata and ICSSR (ERC) (iii). 'Gendered narrative as An/Other History: Recasting Partition' at the National Seminar on "Interpreting Historical Developments in Northeast India: A Gender Perspective" organized by the History Department, NEHU, Shillong on the 26th and 27th of February 2009 under UGC-SAP. (iv). 'Literary Theory and the Problem of Meaning' at the National Seminar on "Meaning and Understanding in Human and Literary Studies" organized by Assam University, Silchar between 16th-18th March 2009 and sponsored by ICPR New Delhi. (v). 'Seeing Difference': The Problem Of Representation in Social Sciences' at the National Seminar on "Constraints and

Challenges to Social Science Research in North East India” organized by the ICSSR (NERC) on the 27th and 28th of March 2009 at NEHU Campus Shillong and sponsored by ICSSR New Delhi. (vi) International: ‘Global Transactions: Recasting the Kali’ at the International Conference on “Literary Transactions in a Globalized Context: Multi-ethnicity, Gender and the Marketplace” at Visva-Bharati, Shantiniketan, West Bengal, from 26th-30th November 2008, organized by MELUS – India (The Society for the Study of Multi-Ethnic Literatures of the United States, India Chapter) and MELOW (The Society for the Study of Multi-Ethnic Literatures of the World) in collaboration with the Department of English and Other European Languages Visva Bharati and sponsored by USIS, Kolkata.

Utpala Sewa: Presented a paper on 21 December 2008 entitled ‘Interpreting Personal History: “Memory and the Past in Thomas Hardy’s Poetry’ at the National Seminar on “Hermeneutics of Philosophy, Politics and Religion” organized by Philosophy Department, NEHU, Shillong between 19-21 December 2008.

Dr. Kynpham Sing Nongkynrih (i). Participated in Literary Forum on “Problems and Prospects of Publishing Folklore” organised by Sahitya Akademi in Shillong on 13 June 2008 and presented a talk on the theme as a Resource Person; (ii).Symposium on “Influence and Assimilation of Folklore in the Poetry of North-East India” organised by Sahitya Akademi in Shillong on 25 July 2008 and read out a paper entitled, “Roots of the Past: Myths in Northeast Poetry”. (iii). “North-Eastern and Southern Writers’ Meet” organised by Sahitya Akademi, in Hyderabad on 30-31 August 2008 and read self-composed poems. (iv).Kovalam Literary Festival organised by Noctilucent, New Delhi in Kovalam, Kerela on 6-8 October 2008 and read self-composed poems and a story, “The Death of Lapalang, the Stag”. (v).Poetry Festival on “Uniqueness of Meghalaya Folklore, Culture and Landscape” organised by the Department of Khasi, NEHU in Shillong on 30 October 2008 and presented a talk on poetry as a Resource Person. (vi).Participated in the Translation Workshop, “Four Indian Writers, Four UK Writers” organised by Writers’ Chain and Wales Arts International, UK, at Neemrana Fort Palace Hotel, Rajasthan, on 14-20 January 2009 and translated poems of the four UK writers into Khasi. (vii).Jaipur Literature Festival on “Found in Translation” presented by British Council in Jaipur on 21-25 January 2009 and read self-composed poems in Khasi and English. (viii).Poets’ Meet, “Poetry that Sings” organised by Sahitya Akademi in New Delhi on 21 February and read self-composed poems in Khasi and Hindi.

Ng. Rabindra Singh (i). Read ‘Poems’ in KRITYA 2008: An International Festival of Poetry on 14th-16th November 2008 at Punjab Art Council, Chandigarh. Organized

by Kritya. (ii) Read 'Poems' in 'Landmark's Poetry with Prakriti' on 16th-17th December 2008 at Oxford Book Store, Chennai organized by Prakriti Foundation.

Publications:

Journal Publications

Ao, T. 2008. The Epitaph (Poem). *Indian Horizons (ICCR)*, 53: 57.

Ao, T. 2008. For Christ and All (Poem). *The Little Magazine N.D.*, 8 issue 1 & 2.

Syiem, E. 2008. How Conflicts are reflected in Literature: Transcribing Troubled Realities in the Written and the Oral Search for Peace with Justice issues Around Conflicts in North East India, Guwahati: North Eastern Social Research Centre. Ed. Walter Fernandes. Syiem, Esther, 2009, "Publishing Frontiers: The Continuing Evolution of Khasi, Literature" (Article in Book Anthology), *Tribal Literature of North-East India*.

Renganathan, M. S. 2009. Indian Woman at the Crossroads: A Study of Shashi Deshpande's Heroines. *Journal of Literature, Culture & Media Studies – Contemporary Women V ritings Multidisciplinary*, 1: 71-8.

Bhattacharjee, S. 2008. Review Article on Gail Omvedt's *Dalit Visions: The Anti-Caste Movement and the Construction of an Indian Identity (Revised Edition)* Orient Longman, Hyderabad, 2006 (1995), *The NEHU Journal*, 6: 140-145.

Sewa, U. 2008. Setting It Apart: The Nepali Oral Tradition (Article in Book Anthology) *Tribal Literature of North-East India*, War, Badaplin (ed) Publisher: B. War, Hi-tech Impressions, Shillong, 77-85.

Nongkynrih, K. S. 2008. 8 Haiku, *Planet: The Welsh Internationalist (Aberystwyth, Wales)*, 189:50.

Nongkynrih, K. S. 2008. Poem Sundori Rang Prasang, *New Delhi*, 3: 30.

Nongkynrih, K. S. 2008. 13 Haiku, *Kavya Bharati (Madurai)*, *Modern Haiku*, 20:80-81.

Nongkynrih, K. S. 2008. 2 Haiku, (Evanston, Illinois, USA), *Simply Haiku, Online*, 40: 16.

Nongkynrih, K. S. 2008. 5 Haiku. *American Journal*, 6: 12.

Nongkynrih, K. S. 2008. The Poet as Chronicler: An Overview of Contemporary Poetry in North east India, *Kavya Bharati (Madurai)*, 20: 170-184.

Ngangom, R. S. 2008. Published Poems, India Literature 248 Sahitya Akademi, 3: 45-47.

Book Publications:

Mazumdar, M. M. 2008. From Modern to Early Modern, Kolkata, Avantgarde Press.

Nongkynrih, K. S. 2008. The Season of the Wind: A Third Collection of Poems Pine Cones, Shillong, pp 92.

Nongkynrih, K. S., 2008, *The Fungus: A Fourth Collection of Poems*, Pine Cones, Shillong, 88 pages.

Nongkynrih, K. S. 2008. Time's Barter: Haiku and Senryu, A Fifth Collection of Poems, Pine Cones, Shillong, pp 98.

Nongkynrih, K. S. 2008. Ka Samoi jong ka Lyer (Collection of Poems in Khasi), Pine Cones for MBOSE, Shillong.

Honours/Awards/Recognitions

Dr. K.S. Nongkynrih, Reader in the Department was awarded Rs two-lakh, cash award towards the first Veer Shankar Shah-Raghunath Shah National Award, 2008, for Literature from the Government of Madhya Pradesh.

Other activities:

Sukalpa Bhattacharjee delivered 2 lectures in UGC-sponsored Refresher Course on Social and Political State Formation in the History Department, NEHU, and Shillong on Gender and Nationalism on 14th and 15th of November 2008. She also delivered a Plenary Lecture on Gender and Indian Democracy in Women's College, Shillong on the 9th of March 2009 on the occasion of International Women's Day. Michael Scharf from the Graduate School & University Center of the City University of New York delivered a Talk to the 4th semester students on 22 May 2008 Junaid Harekar (Advertising Producer) and Mayfereen Ryntathiang (Development Worker) held an interactive session with the students regarding their respective fields on 24 October 2008 Students Seminar on 24th June 2008 was organised by Dr. Sukalpa Bhattacharjee with 3 students presenting papers on the following topics.

**DEPARTMENT OF ENGLISH
(TURA)**

Head : Dr. Jyotirmoy Prodhani
Telephone : 03651-223628
E-mail : rajaprodhani@gmail.com

Thrust Area of Research: The thrust area of research includes : Cultural Studies and Translation; Dalit and Ethnic Literature Indian and Postcolonial Literature; Popular Culture; Film Studies; Contemporary Fiction; Narrative Studies; Women and Gender Discourse; Theatre Studies; Future Studies.

Brief Statement of Academic Activities: The Department is imparting M.A. (literature course) and Ph.D. Programme in English Literature. The semester seminar has been introduced in the Department to imbibe research oriented interest among the Master's Level students. A research Journal Protocol; Journal for Translation, Creative and Cultural Writings is published by the Department. Scholars and professional from the area of mass media, graphic design, anthropology, film studies are invited to the department to present their talks and interact with students, Poets meet and workshops on creative writing. National Seminars have been organized regularly. Regular film and audio-visual shows are being held to give supplementary exposures to the students. Further the department has produced plays and dramas to promote socio-cultural awareness.

Brief Statement of Academic Activities: The Department is imparting M.A. (Literature course) and Ph.D. programme in English Literature. The Semester seminar has been introduced in the Department to imbibe research oriented interest among the Master's Level students. A research journal Protocol: Journal for Translation, Creative and Critical Writings is published by the Department. Scholars and professionals from the area of mass media, graphic design, anthropology, film studies are invited to the department to present their talks and interact with students. Poets meet and workshops on creative writing. National Seminars have been organized regular. Regular film and audio-visual shows are being held to give supplementary exposures to the students. Further the Department has produced plays and dramas to promote socio-cultural awareness.

Faculty:

Professor : Sujata Gurudev, M.A./M.Phil./Ph.D.(NEHU).
 Readers : Jyotirmoy Prodhani, M.A. (Pune), Ph.D. (NEHU)
 Lecturers : Raj Shekhar Thakur, M.A. (Patna)
 Angela R.W.Ingty, M.A.(Gauhati). M.Phil (Madras), PGDTE
 (CIEFL, Shillong), Ph.D. (NEHU)
 Ramona M. Sangma, M. A. (NEHU).

Student intake

Enrolment capacity: 30

Actual Admission	SC/ST/Gen.			Male/Female		Meghalaya	Outside
	2	23	5	10	20	30	-

Degree Awarded :

Actual Admission	SC	ST	Gen	Male	Female	Total
MA	1	20	1	10	12	22

Study tours/field trips of students:

Third semester students were taken to Kerala and were accompanied by Angela W. R. Ingty as the Teacher in Charge.

Seminars/conferences/symposia/workshops/extension programmes etc.

Attended

Dr. J. Prodhani (i) National Seminar on *Role of Goalpara in the Colonial Annexation of Assam by the British*, held at P.B.College, Gauripur, Assam in January, 2009. Title of Paper: 'Goalpara in the Perpetuity of Margin'. (ii) National Seminar on *Ambedkar and Social Change*, P.B.College, Gauripur, Assam in February, 2009. Title of Paper: 'Ambedkar and Transformational Societies'. (iii). Regional Seminar on *Matrilineal System in Meghalaya*, organized by the Department of Arts and Culture, Govt. December, 2008, at Tura. Title of Paper: 'Matrilineal and Patriarchal System'.

Prof. Sujata Gurudev: Regional Seminar on *Matrilineal System in Meghalaya*, organized by the Department. of Arts and Culture, Govt. 16 - 17 December, 2008, at Tura. Title of Paper: 'Women and Patriarchy'

Dr. Angela W. R. Ingty: Regional Seminar of A.chik Literary Society Seminar at Tura. 23, August, 2008. Title of the paper: The Place of Garo among the Languages of the World.

Journal Publications:

Gurudev, S. 2008. Life as Lore: The Art and Time of Pratima Barua Pandey, Anurukti & Shandhya Gaman, Asseme Poems, Published in the Sakha Sahitya Sabha Poetry collection of Golakganj.

Gurudev, S. 2008. Life as Lore: The Art and Time of Pratima Barua Pandey, *Indian Folklife*, 31.

Sangma, R.M. 2009. Postcolonial Perspective in the Essays of V.S.Naipual. Protocol: JTCCW, 2.

Any other activities:

A research journal entitled "Protocol Journal of Translation and Creative Writings" is being published by the Department.

DEPARTMENT OF GARO

Head : Dr.(Mrs) Jacqueline R. Marak
Telephone : 03651-220016 (O), 9436108468 (M)
E-mail : jcqlnmarak@gmail.com

Thrust Area of Research: To preserve and protect the rich tradition of Garo Language through translations, documentations and research in areas of Folklore and related genre, contemporary Garo Fictional Studies, Linguistics in relation to Garo Language, Cultural Studies and Archaic Representations in Garo Literature.

Brief Statement of Academic Activities: The Department conducts the M.A. programme in Garo Literature and also supervises Ph.D. scholars. Apart from this, the Department organizes workshops, extension lectures, and interactive sessions with visiting scholars and authors. Students are encouraged to make inquiries into the folk literature and culture of the people of Garo Hills, especially in the field of folk tales, folk social culture, balladic poetry and folksongs. The Department maintains a wall magazine in which students are encouraged to contribute their original creations and compositions.

Faculty:

Lecturers : J.R.Marak, M.Ed. (Utkal) Ph.D.(NEHU)
 F.K.Marak, M.A. (NEHU) Ph.D.(NEHU)
 D.Ch. Marak, M.A.(Garo), M.A.(Linguistics) NEHU

Visiting Professors/Fellow/Scholars in the Department/Centre.

Prof. Caroline R. Marak, Retired Professor, Department of Garo, NEHU, Tura Campus.

Student Intake:

Enrolment capacity: M.A. : 30

Actual Admission:	ST (Male)	ST (Female)	Total	Meghalaya only
	13	17	30	

Degree Awarded:

M.A.	SC	ST Male	ST Female	Total
	2	8	14	22
Ph. D :		3	3	

Placement of Students: Mrs. Dokatchi Ch. Marak is presently a lecturer in the Department. Ms. Nikme R. Marak, Guest Lecturer in the Department, is pursuing her research work.. Mrs. Dorothy R. Marak, Guest Lecturer in the Department is also pursuing her research work. Most students are engaged in the teaching profession as lecturers, assistant lecturers, school principals and teachers.

Some students are employed in mass media (print and electronic) and as translators in government, public, and private institutions including judicial establishments.

Courses Conducted:

1st Semester:

a. GAR-101-Core: History of Garo Language and Literature, b. GAR-102-Core: Poetry-I Sacrificial Rites & Invocations, c. GAR-103-Core: Drama-I, d. GAR-104-Core: Linguistics-I: Basic Concepts, Definitions & Scope of Linguistics, Garo Morphology and Semantics. e. GAR-105-Core: Environmental Studies.

2nd Semester:

GAR-201-Core: Fiction-I, GAR-202-Core: Literature in, Translation GAR-203-Core: Prose-I GAR-204-Core: Linguistics-II:, Phonetics and Phonology.

GAR-205-Open: Linguistics-III, Tibeto-Burman Languages of the North-East (classification and Bodo group of Languages).

3rd Semester: GAR-301-Core: Literary Theory & Criticism, AR-302-Core: Epic as a Literary Genre, GAR-303-Core: Drama-II, GAR-304-Open: Linguistics-III: Language and Society, GAR-305-Open: Folklore-I Definition, scope & different forms of folklore and field techniques,

4th Semester: GAR-401-Core: Poetry-II: Poetry from 1881 to 1944. GAR-402-Core: Folklore-II Garo Folktales, Folksongs, Proverbs and Sayings, GAR-403-Core: Tragedy as a Literary Genre. GAR-404-Core: Indian Literature in English, GAR-405-Core: Modern Poetry.

Study Tour/Field Trips of Students: Students of both the Semesters visited A·chotchong, East Garo Hills, Meghalaya on 15th March, 2008 with the Teacher-in-charge Dr(Mrs)Fameline K. Marak & Ms.Nikme R. Marak, Guest Lecturer of the Department and collected materials connected with their assignments and tutorials under Prose-I and Folklore Courses. The Students observed and studied the *Medong Rapa* which is the post funeral ceremony.

Seminars/conferences/symposia/workshops/extension programmes etc:

Attended:

Dr (Mrs) J.R.Marak : Presented a paper entitled "*A·chikkuchi sea-jotanina American Baptist Me·chik Missionaryrangni on·gilani*" at the Regional Seminar which was organized by the A·chik Literature Society and sponsored by the Arts & Culture, Govt. of Meghalaya at Tura Christian Girls' Higher Secondary School on 22nd & 23rd August, 2008. Contributed a paper entitled "*Doroa*" at the National Seminar organized by the Department of Arts & Culture, Govt. of Meghalaya at Tura on 31st October, 2008.

Dr. Fameline K. Marak: Presented a paper entitled "*A·chikrangni Ripinggimin:Mangbila Katta Ma·gitcham*" at the Regional Seminar organized by the A·chik Literature Society and sponsored by the Department of Arts & Culture, Govt. of Meghalaya at Tura Christian Girls' Higher Secondary School on 22nd & 23rd August 2008. Contributed a paper entitled "*KABE*" "*Hearth Wringing Traditional Funeral Wails*" at the National Seminar organized by the Arts & Culture, Govt. of Meghalaya at Tura on 31st October, 2008.

Mrs. Dokatchi Ch. Marak: "Presented a paper entitled "*A·chikkuo Gital Kattarangko Bimang Ong·atani aro Bariani*" at the Regional Seminar organized by the A·chik Literature Society and sponsored by Arts & Culture, Govt. of Meghalaya at Tura Christian Girls' Higher Secondary School on 22nd & 23rd August 2008". Contributed a paper entitled "*Serejing Ring·a*" at the National Seminar organized by the Department of Arts & Culture, Govt. of Meghalaya at Tura on 31st October, 2008.

Mrs. Barbara S. Sangma: Contributed a paper on "Animal trickster in Garo Folklore' at the National Seminar organized by the Folklore Department, NEHU in collaboration with the Sahitya Akademi in Shillong on 28th March 2008". Contributed a paper entitled "*DANIA or DANI DOKA*" at the National Seminar organized by the Department of Arts & Culture, Govt. of Meghalaya at Tura on 31st October, 2008.

Ms. Nikme R. Marak: Contributed a paper entitled "*Wangalao Ajea*" at the National Seminar organized by the Department of Arts & Culture, Govt. of Meghalaya at Tura on 31st October, 2008.

Mrs. Dorothy R. Marak: Contributed a paper entitled "*Gonda Doka*" at the National Seminar organized by the Department of Arts & Culture, Govt. of Meghalaya at Tura on 31st October, 2008.

Publications:

Journal:

Marak, K. F. 2008. Kamni Bite, *Chimik*, 1: 12.

Marak, K. F. 2008. Damben' Cha·sot, Tura Government College Golden Jubilee Souvenir, 43.

Marak, K. F. 2008. Ka·saao Man·rikani, Cheani, Marak R. S. Twinkle. 2008. Stereo-typing the A·chik Women, Kimpret.

Book:

Marak, R. C. 2008. Growth and Development of Khasi & Garo Languages D.G, Offset.

Any other activities:

Braille texts of all the courses have been successfully prepared creating a history of sorts while providing adequate assistance in the form of materials preserved for future use. Audio player and CDs have also been added as teaching aids for the disabled. The Department not only works at tandem with the A·chik Literature Society, but has also emerged as a consultative body in matters relating to Garo folk art and

literature. In a fast-changing world the responsibility has fallen on the Department of Garo, slowly but surely, to protect and preserve and to help, understand and appreciate the age-old Garo folk customs, beliefs and traditions along with its art and literature. In a bid to protect and preserve the age-old musical instruments, ornaments, costumes, urns and other items used during rituals – which are the 'wealth' of the Garos the Department is making efforts to collect some of the above mentioned articles. The same is of immense value to the students in that they get a first-hand knowledge of the objects and articles used during pre-Christian life of the Garos which they read in books

DEPARTMENT OF HINDI

Head : Dr. S.K. Sharma
Telephone : 0364-2723514 (O)
E-mail : sksharma19672@yahoo.com

Thrust area of research : Modern Hindi Literature and Comparative Study.

Brief Statement of Academic Activities: The Department and National Council for the promotion of Urdu Language (NCPUL) MHRD, New Delhi organized a workshop on Urdu Drama. The Department staged a play 'Namak' in NEHU, Guest House auditorium on 1.5.2008. A three days National Seminar was organized in collaboration with North-East Council, Shillong on 'Purvottar Bharat ka Sahitya aur Hindi ki Bhumika'. The Scholars from all over North-Eastern States and other parts of the Country participated in the Seminar. A three days National Seminar was organized by the Department in collaboration with the Commission for Scientific & Technical Terminology, MHRD, New Delhi on the topic 'Manaviki Vishayon mein Takniki Shabd Nirman aur Vaigyanik Lekhan' from 19th September, 2008 to 21st September, 2008.

Faculty:

Professor : V.K.Srivastava, M.A., D.Phil, (Allahabad)
Readers : D.K.Choubey, M.A., Ph.D., (Manipur)
S.K. Sharma, M.A., M.Phil, Ph.D, (Delhi)
M.P.Pandey, M.A., Ph.D, Kashi Vidyapeeth,
Lecturer : B.P.Tripathi, M.A., M.Phil, (J.N.U.)

Student intake :

PG Programme :

Enrolment Capacity: M.A.50, M. Phil. 10, Pn.D. Variable

Actual Admission -27

M.A.	SC	ST	GEN	Male	Female	From Meghalaya	Outside Meghalaya
	1	16	10	9	18	2	25
M.Phil.	SC	ST	GEN	Male	Female	From Meghalaya	Outside Meghalaya
	-	2	3	1	4	3	2
Ph.D	SC	ST	GEN	Male	Female	From Meghalaya	Outside Meghalaya
	-	-	3	2	1	3	-

Degree Awarded :

	SC	ST	Gen	Male	Female	Total
MA :	-	5	9	4	10	14
Ph.D :	-	-	4	2	2	4

Santwana Mishra: "Shabari Sangyak Adhunik Kavyakritiyon ka Samkshatmak Adhyayan" - Supervisor: Dr. D.K.Choubey.

Urmil Sharma : "Prayojan Moolak Hindi ka Vikas : Swaroop aur Sanrachana ki Drishti Se" – Supervisor: Dr. S.K. Sharma.

Amirul Hasan Akela – "Swatantryottar Hindi Sahitya ke Vikas mein Aakashwani ka Avdan" Supervisor : Dr. M. P. Pandey.

Raj Kumar Jha – "Aachary Vishwanath Prasad Mishra ke Krititwa ka Vishleshnatmak Aadhyayan" Supervisor – Dr. M.P.Pandey.

Placement of students: Students of M.A. and Ph.D. Programmes have been placed in institutions like colleges, schools and offices (State and Central Govt. and Public Sector) in different parts of the country.

Seminars/Conferences/symposia/extension programmes etc:

Organised:

National Seminar on "Purvottar Bharat ka Sahitya aur Hindi ki Bhoomika" supported by North-Eastern Council, Shillong from 4-6 June, 2008 at NEHU, Shillong. The Scholars of various languages specially North-East Region like Khasi,

Garo, Assamese, Manipuri, Kakborok, Arunachali, Nagami & Bengali presented their papers and it was found that the role of Hindi was viewed important in the development of these languages in the context of comparative studies and translation.

National Seminar on "Manaviki Vishayon mein Takniki Shabd Nirman aur Vaigyanik Lekhan" supported by Commission for Scientific & Technical Terminology, MHRD, New Delhi from 19-21 Sept., 2008 at NEHU, Shillong. The resource persons and participants from all over country discussed the Technical Terminology and Scientific writing in the field of humanities

Attended:

Dr. D.K.Choubey (i) presented paper in National Seminar on the topic 'The effects of nature of Tagore's writings' organized by Bangiya Sahitya Sabha on 10.5.2008 at Shillong; (ii).National Seminar Paper presented on 'Asom mein Vaishnav Mat aur Vaishnav Sahitya ki Vikashyotra' on 6.6.2008 organised by the Department of Hindi in collaboration of North-Eastern Council (NEC) Shillong; (iii).UGC sponsored National Seminar presented Paper on The role of Comparative Study of Language, literature and culture in the process of National Integration at Tezpur College Tezpur (Assam) on 30.8.2008; (iv) Presented Paper in UGC sponsored National Seminar on 'Ramakhyanak Parampara aur Asom ke Shrimont Shankardew' at Morigaon College, Morigaon (Assam) on 23.1.2009; (v) Presented Paper in two days National Seminar organized by NCRT at Delhi on 11.11.2008 and 12.11.2008 on the topic – 'Hindi Teaching to Tribal Students of Meghalaya'; (vi) Presented Paper in National Seminar on 'Purvottar Bhashaon ke Vikas mein Hindi ki Bhumika' organized by Assam Rajya Rashtra Bhasha Prachar Samiti at Science Center, Guwahati on 29.3.2009; .

Dr. S.K.Sharma (i).presented a paper entitled 'Aadhunik Pripashya aur Anuvad ke Badalt Aayam' in a National Seminar organized by Shabd Bharti Hindi Sansthan Kendra, Guwahati , at Cotton College, Guwahati on 18.5.2008; (ii).presented a paper entitled 'Bahubhashikata aur Anuvad', in a National Seminar organized by Kahani Lekhan Mahavidyalaya, Ambala at Purvottar Hindi Academy, Shillong from 19-21 May, 2008; (iii).presented a paper entitled 'Purvottar ki Bhashen aur Devnagri Lipi : Antah Sambandh' in a National Seminar organized by Nagari Lipi Prashid, New Delhi at Purvottar Hindi Academy, Shillong from 14-15 June, 2008; (iv).presented a paper entitled 'Takaniki Shabd Nirman evam Vaigyanik Lekhan' in a National Seminar organized by Commission for Scientific and Technical Terminology MHRD, New Delhi at Central Institute of Hindi, Dimapur (Nagaland) from 25-27 July,2008; (v). presented

a paper entitled 'Shikshan evam Lekhan mein Takniki Shabdawali ka Prayog' in a National Seminar organized by Commission for Scientific and Technical Terminology MHRD, New Delhi at NEHU, Shillong from 19-21 September, 2008; (vi). presented a paper entitled 'Shiksha mein Pribhashik Shabdon ka Prayog' in a National Seminar organized by Commission for Scientific and Technical Terminology MHRD, New Delhi at Rajiv Gandhi University, Itanagar from 24-26 November, 2008; (vii). presented a paper entitled 'Khasi Bhashi Chhatron ki Uchcharanagat Samasyaen' in a National Seminar organized by North-East Regional Institute of Education, Shillong from 10-12 December, 2008; (viii). presented a paper entitled 'Bisawin Shatabdi ke Antim Dashak ke Upanyason mein Bhashayi Abhivanjana' in a National Seminar organized by UGC, New Delhi at Govt. P.G. College, Chhatarpur (M.P.) on 31st January, 2009; (ix). presented a paper entitled 'Arunachal Pradesh ke Dharmik Lok Sahitya mein Jiwan Mulya in a National Seminar organized by UGC, New Delhi at Shrimant Vijaya Raje Sindhiya, P.G. College, Adokhar (M.P.) from 9-10 February, 2009; (x). presented a paper entitled 'Atal Bihari Vajpayi ke Gadya Sahitya ka Saundryatmak Vishleshan' in a National Seminar organized by UGC, New Delhi at Madhav College, Gwalor (M.P.) from 21-22 February, 2009; (xi). presented a paper entitled 'Paribhashik Shabdawali Nirman ke Sidhant' in a National Seminar organized by Commission for Scientific and Technical Terminology MHRD, New Delhi at NEHU, Shillong from 19-21 September, 2008; (xii). Presented a paper entitled 'Purvottor Bharat mein Mahatma Gandhi ka Prabhav' in a National Seminar organized by Darshan evam Smriti Sansthan, New Delhi at Purvottar Hindi Academy, Shillong on 29.3.2009.

Dr. M.P. Pandey (i). presented a paper entitled 'Dwitiya Bhasha Shikshan ki Samasyaye: Purvottar Bhart ke Sandarbh mein: in a National Seminar organized by North-Eastern Regional Institute of Education (NERIE) Shillong from 10-12 December, 2008.

Shri. B.P. Tripathi (i). Presented a paper entitled 'Samkaleen Hindi Kahani main Nari Chetana', in a National Seminar organized by Kendriya Hindi Nideshalaya at North-Bengal University, Siliguri from 13-14 August, 2008.

Publications:

Journals

Choubey, D.K. 2008. Tulantmak Adhyayan aur Asomiya Hindi Ramkavya. *The NEHU Research Journal*, 5: 77-82

Choubey, D.K. 2008. Tripura ki Janjatiyan aur Lok Sahitya. *Sammelan Patrika Hindi Sahitya Sammelan, Allahabad*, 93: 196-200.

Sharma, S.K. 2008. Vyangay ki Maryadaya ka Dastavej: Bahas Beech mein, Samiksha, Delhi, 41: 42.

Sharma, S.K. 2009. Hindi ki Pragati ka Dastavej: Assam mein Hindi, Bhasha, Delhi, 48:204

Sharma, S.K. 2009. Hindi Gajal ki Viksayatra, Shodharnav, Ori, 3: 81-85.

Sharma, S.K. Asphal Prem ka Saphal Kathanak: Prikrma, Samiksha, Delhi, 41: 48.

Sharma, S.K. 2009. Kabir Kavya par Baudh Darshan ka Prabhav, Shodh Samiksha aur Mulyankan, Jaipur, 2: 702-703.

Sharma, S.K. 2009. Rikt-ta ke Purak: Arunachal mein Hindi, Samiksha, Delhi, 41: 48.

Sharma, S.K. 2009. Nai Kavita ke Shikhar Purush: Gajanan Madhav Muktibodh, Kritika, 3: 61-64.

Pandey, M.P. 2008. Khasi Sahitya ke Sanskritik Pariparshwa ki Vikas Yatra, *NEHU Journal*, 5: 31-40.

Pandey, M.P. 2008. Mizo Jati ka Samajik-Sanskritik Paridrishya, *Gaveshna Agra*, 116-119.

Books:

Sharma S. K. 2008. Kavya Prayojan, Alankar, Riti aur Auchitya in the book for M. A. (Hindi) course by Vardhman Mahavir Khula Vishwavidyalaya, Kota. (Four Chapters in two units).

Tripathi, B.P. 2009. Ek Perh ki Atmkatha, Anamika Prakashan, Allahabad,

Any other activities:

Dr. D.K.Choubey (i) participated as resource person in workshop on Official Language for Non-Hindi speaking employees of University by Hindi Cell, NEHU, Shillong on 11.4.2008; (ii). Lecture delivered on Importance of Comparative Literature in North-East Region in the Department of Hindi, Tripura University, Agartala on 20.6.2008; (iii). chaired the Technical Session of UGC sponsored National Seminar on the Literature and National Integration on 29.8.2008 at Tezpur College (Assam); (iv).special Lecture delivered in Refresher Course for teachers of Secondary Education at Jowai (Meghalaya) on 12.8.2008 by Central Institute, Agra Centre Shillong; (v).edited the NEHU Research Journal (Hindi) Vol. V, No. 1, 2008; (vi).delivered lectures at UGC Academic Staff College as Resource person

at Gujrat University, Ahmedabad on 6.1.2009 on Research Methodology and Folklore; (vii).delivered lectures in the UGC lectures exchange programme at Sardar Patel University, Vallabh Vidyanagar (Gujrat) from 4.1.2009 to 7.1.2009; (viii).delivered lecture on Adikalinkal Nirdharan evam Namakaran at N. A. and T. V. Patel Arts College, Vallabh Vidyanagar (Gujrat) on 7.1.2009; (ix). chaired Technical Session of UGC sponsored National Seminar on 'Bhakti Movement and National Integration on 23.1.2009 at Morigaon College (Assam); (x).visiting Fellow in the Department of Hindi Tripura University, Agartala from 4.2.2009 to 15.2.2009; (xi).participated as resource person in workshop for preparation of materials for Text books for Secondary level Tribal students of North-East Region from 4.3.2009 to 6.3.2009 at Guwahati University, Guwahati by NCRT, Delhi; (xii).participated as resource person in workshop Books review of North-Eastern States Text books of Hindi Language by NCRT (NERIE and IGNOU) at Office of IGNOU Regional Centre, Guwahati from 20.3.2009 to 22.3.2009; (xiii).

Dr. S.K.Sharma (i) participated as resource person in workshop on Official Language for Non-Hindi speaking employees of University by Hindi Cell, NEHU, Shillong on 13.4.2008; (ii). participated as resource person in National Workshop on 'Uttarpuvi Pradeshon mein Hindi ka Vikas' organized by Central Homoyopaithy Research Council, New Delhi on 28th May2008 at Naidank Research Unit, Shillong; (iii).participated as resource person in the workshop on 'Hindi Story Writing' organized by Kahani Lekhan Mahavidyalaya, Ambala from 19-21 May,2008 at Purvottar Hindi Academy, Shillong; (iv).organized National Seminar as Director on 'Purvottar Bharat ka Sahitya aur Hindi ki Bhoomika' by North-East Council, Shillong from 4-6 June,2008; (v).participated as resource person in the workshop for Revision of School Syllabus & Textbooks for class 1 to 12 at Education Research and Training Meghalaya, from 16-20 June,2008; (vi).participation as resource person in National Workshop on 'Raj Bhasha Hindi : Vividh Aayam' organized by Power Grid Corporation of India, Shillong from 10-12 July,2008; (vii).delivered a lecture on 'Research Mythology' organized by Language Study Centre, Jiwaji University, Gwalior on 22.7.2008; (viii). delivered a special lecture on 'Nagaland mein Hindi ki Dasha aur Disha' organized by Nagland Bhasha Academy, Dimapur on 28.7.2008; (ix). organized National Seminar as Director on 'Manviki Vishayon mein Takaniki Shabd Nirman aur Vaigainik Lekhen' by Commission for Scientific and Technical Terminology, MHRD, New Delhi from 19-21 Sept.,2008; (x). delivered a lecture on 'Pronunciation and Articulation' organized by North Eastern Service, All India Radio, Shillong on 23.9.2008; (xi). chaired the Technical session of National Seminar on 'Manviki Vishayon mein Paribhashik Sabdo ka Pryog' of Commission for Scientific and Technical Terminology, MHRD, New Delhi

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at Rajiv Gandhi University, Itanagar on 25.11.2008; (xii). chaired the Technical session of National Seminar on 'Paribhashik Sabdovali Nirman ke Sidhant' of Commission for Scientific and Technical Terminology, MHRD, New Delhi at Central Hindi Institute, Guwahati on 24.3.2009;

Dr. M. P. Pandey (i) delivered a lecture in Department of Hindi, North Bengal University on the topic 'Hindi ke Vidrohi Kavi Nirala' on 30.7.2008; (ii) participated in NEHU total Computer and Internal Literacy programme organized by Centre for Adult & Continuing Education (CACE) NEHU, from 1st August to 5th August 2008,; (iii) visited Department of Hindi 'Tripura University Agartalla as Visiting Fellow from 8th February, 2009 to 18th February, 2009; (iv) participation in a workshop on E-learning with focus to Educational Internet Domoin organize by Centre for Distance Education, NEHU in collaboration with Computer Centre, NEHU on 18th & 19th March, 2009; (v) participation in a workshop on E-learning with focus to Educational Internet Domoin Organise by Centre for Distance education, NEHU, in collaboration with Computer Centre, NEHU on 18 - 19 March, 2009

DEPARTMENT OF KHASI

Head : Professor B.War (till 15th July 2008).
Professor S.Dkhar (from 16th July 2008).
Telephone : 0364-2723301 (O), 9436117479 (M)
E-mail : s.dkhar@rediffmail.com

Thrust area of research: The thrust area of research of the Department includes Khasi Poetry, Khasi Fiction, Khasi Drama, Khasi Linguistics, Culture in Khasi Literature, Literature in translation, Environmental Awareness in Khasi Literature, Khasi Literary Theory and Criticism and Folklore in Khasi Literature.

Brief statement of academic activities: The Department organized the First Meghalaya Poetry Competition Cum Poetry Festival 2008, in collaboration with the Department of Art and Culture, Government of Meghalaya, Poetry Society (India) and Sahitya Academy New Delhi on 30th October at Science Seminar Hall, NEHU, Shillong.

Faculty:

- Professors : B. War, M.A.(NEHU), M.A., M.Phil (Delhi), Ph.D (London)
 M. B. Jyrwa, M.A.(Gau), M.Ed,TEO(Manchester) Ph.D (NEHU),
 S.Dkhar, M.A. , M.Phil , Ph.D (NEHU),
 A.Kharmalki, M.A. M.Phil, Ph.D, B.Ed (NEHU), M.A. (Delhi),
 Readers : D.R.L.Nonglait, M.A., M.Phil, Ph.D (NEHU), P.G.D.T.E. (CIEFL),
 Lecturers : B.Bairo, M.A. (NEHU).
 M.M.Khyndeit, M.A. (NEHU) MPhil (G.U.),

Visiting Professors/Fellows/Scholars in the Department/Centre:

Student intake:

Enrolment capacity: 50

Actual Admission SC/ST/Gen Male/Female From Meghalaya/ outside

(a) M.A.	50	- (ST)	- 12	38	
(b) M.Phil	10	- (ST)	- 4	6	- do -
(b) Ph.D.	6	- (ST)	- 5	1	- do -

Degrees Awarded:

	SC	ST	Gen	Male	Female
M.A. -	-	41	-	3	38

Placement of students:

Students have been employed as teachers in schools and colleges and in government offices.

Courses Conducted:

Semester I: KHA-101C Linguistics I, KHA-102CKhasi Poetry I, KHA-103C Khasi Literary Criticism, KHA-104C Khasi Fiction I and KHA-105C Khasi Drama I.

Semester II: Linguistics II, Khasi Drama I, Literary Theory and Criticism and Khasi Poetry II.

Semester III: Linguistics III, Literature in Translation, Khasi Drama II, Culture and Khasi Literature I.

Semester IV: Linguistics IV, Khasi Fiction II, Culture and Khasi Literature II, Environmental Awareness in Literature and Khasi Poetry III.

Study tours/field trips of students:

Study Tour in connection with Course XVI on Environmental Awareness in Khasi Literature (i) to Umni, Mawkyrwat, West Khasi Hills on 13th November 2008 and (ii) to Mawphlang Lawkyntang and PHE Dam on the 10th March, 2009 under the charge of Prof. S.Dkhar.

Prof. S. Dkhar took the students of M.A. 3rd Semester for a study tour from 12th January to 28th January 2009, to Bangalore, Mysore, Trivandrum, Kanya Kumari and Chennai.

Seminars/conferences/symposia/workshops/extension programmes etc.:

Organised:

The Department organized the First Meghalaya Poetry Competition Cum Poetry Festival 2008, in collaboration with the Department of Art and Culture, Government of Meghalaya, Poetry Society (India) and Sahitya Akademi New Delhi on 30th October at Science Seminar Hall, EHU, Shillong.

Attended:

Prof. B.War presented a paper (i) "The Importance of Metaphor Study with special reference to Khasi" in the seminar on Oral Literary Criticism Organized by The Centre of Cultural and Creative Studies, NEHU in collaboration with Sahitya Akademi North East Center for Oral Literature, Shillong on the 10th September 2008 (ii) presented speech on "The uniqueness of Khasi Folklore, Culture and Literature" in the 1st Meghalaya Poetry Writing Competition Organized by the Department of Khasi, NEHU in collaboration with Sahitya Akademi North East Center for Oral Literature on the 30th October 2008 (iii) presented two Lectures entitled "Some aspects of Khasi on Austro-Asiatic Language" and "Khasi Matrilineal Society: Some of its aspects" in the UGC sponsored Refresher Course North East Studies, Organized by the UGC-Academic Staff College, Guwahati on the 12th February 2009.

Prof. S. Dkhar (i) attended as Resource Person, UGC sponsored Training for Trainers Workshop. The Paper presented was on "Importance of Research in Higher Education" organized by WSRC, Gauhati University on 1st -4th April 2008 at IIBM, Khanapara; (ii) attended as Resource Person "Self Publications" on the occasion of "Women's Day" Celebration on 8th March 2008 at Pine Wood Hotel, Organized by North East Network; (iii) attended as Resource person and presented poems entitled

"A Plea To My Mother", and "Woman" in the Poetess Meet at Impulse NGO Office, organized by Impulse NGO in collaboration with The American Centre, Kolkata on 22nd March 2008; (iv) attended as Resource Person and presented a paper on "Ka Kamram Ki Kmie ki Kpa ha kaba Kyntiew ia ki Khun ha Ka Burom Ka Akor" in the seminar on "Ka Kamram u Kpa bad Ka Kmie ha kaba tei ia Ka iing ka sem" to celebrate the silver jubilee of Ka Seng Kur Kharshiiing held on 12th May 2008 at Dorbar Dongiewrim, Mawphlang, organized by Sengkur Kharshiiing in collaboration with the Planning Department, Government of Meghalaya; (v) attended as Resource Person and presented a paper on "Khasi Literature Oal and Written: A historical Perspective" in the national seminar on Purvottar Bharat Ka Sahitya Aur Hindi Ki Bhumika held on the 4th -7th June 2008 at NEHU Guest House Auditorium, organized by Department of Hindi NEHU in collaboration with NEC(Government of India), Shillong; (vi) attended as Resource Person the 2nd North-East Poetry Festival 2008 cum workshop on "Communal harmony and National Integration" organized by Poetry Society (India). Presented poetry readings and delivered a talk on "the Status of Poetry in Meghalaya" (viii) attended the Centenary Celebration of Rev. Dr. John Roberts at Nongsawlia Church, Sohra on the 23rd July 2008. Delivered a speech on "The contribution of John Roberts to Khasi Literature" organized by Dr. John Roberts Theological College Seminary Mawklot; (viii). attended and Chaired one session in the Symposium on "Influence and Assimilation of Folklore" in the Poetry of North-East India organized by Sahitya Akademi NECOL, in collaboration with K.L.Bajoria College, held on 2nd August 2008 at K.L.Bajoria Auditorium; (ix) attended as Resource Person in the seminar on Oral Literary Criticism and presented paper on "Interpreting Oral Literary Criticism with special reference to Symbolism in the selected Khasi folk narratives" organized by Sahitya Akademi on 9th and 10th September 2008 at NEHU Guest House, Shillong; (x) coordinator of the First Meghalaya Poetry Competition Cum Poetry Festival 2008, organized by The Department of Khasi in collaboration with the Department of Art and Culture, Government of Meghalaya, Poetry Society(India) and Sahitya Akademi New Delhi On 30th October at Science Seminar Hall NEHU Permanent Campus Shillong; (xi) acted as a in the UGC Sponsored training workshop on "Capacity Building of Women Managers in Higher Education". The paper presented was "Women In Academia: Making them Visible" organized by Cotton College, Guwahati held on 8th December 2008 at IIBM, Guwahati; (xii) chaired one session in the National Seminar on Phonology, Vocabulary, Literature and Culture in Language Teaching in the North-East Context" on the 10th December 2008, and was in a Panel of Discussants in one session and act as a Chief Guest in the Valedictory Session held on the 12th December 2008 organized by NERIE-NSERT, Shillong at the NCERT Conference Hall, Shillong, (xiii) acted as Resource person in

the “UGC Capacity Building workshop” held at Namrup College, Dibrugarh, on 6th Feb 2009 organized by Namrup College. Presented two lectures on “Research Planning”; (xiv) acted as a Resource person in the “UGC Capacity Building for Women in Higher Education workshop” on 4th March 2009. Lectured on “Understanding Power in the Organization” organized by St. Edmund’s College, at St. Edmund’s College Lecture Hall; (xv) acted as Resource person in the “UGC Capacity Building for women in Higher Education Workshop” on the 6th March 2009, Presented Lecture on “Managing personal and Professional roles in higher Education” organized by St. Edmund’s college, at St. Edmund’s college Lecture Hall; (xvi) coordinator of the Panel Discussion on “The Role of Women to uplift the family” Cum Book Release of Women Writers to celebrate International women’s Day held on 14th March 2009 at Don Bosco Youth Centre Shillong Organized by Sahitya Akademi in collaboration with Ka Lympung Ki Seng Kynthei and the All India Poetess Conference, Meghalaya Chapter. (xvii) resource person in the Panel Discussion on “Community-based Health assessment of women in Meghalaya” held on 16th March 2009 at Pasteur Institute auditorium, Shillong Organized by the Cancer Foundation of India, Kolkata in collaboration with Ganesh Das Hospital, Shillong.

Prof. A. Kharmalki acted as a Resource Person for Phonetics for B.Ed Course on the 24th October, 2008, at College of Teacher Education (PGT), Shillong.

Dr. D.R.L. Nonglait presented a paper on “The Khasi Oral Narratives and Tradition” at the National Seminar on Oral Narrative of North East held on 18th and 19th November 2008, organized by Sahitya Akademi in collaboration with the Department of English, Mizoram University, Aizawl.

Ms. B.Bairo: presented a paper entitled “The Cultural Concept of U Kni- U Kpa (The Maternal uncle and the Father) as reflected in Khasi Literature” in the National seminar on Oral Narratives of the North-East held in Mizoram on the 19th-20th November 2008 Organised by Sahitya Akademi in collaboration with the Department of English, Mizoram University.

Publications:

Journals:

War, B. 2008. Khasi Orthography: A Success Story. Ka Thwet Jingstad, Quest for Knowledge, 1: 47-57

War, B. 2008. U Siej Lung, Ka Thwet Jingstad, Quest for Knowledge 1: 62

War, B. 2009. Agreement in Khasi: A Topic of Research in North East Linguistics.

Rethinking Multilingualism, Issues and Problems. EBH Publishers, Guwahati, 309-324.

War, B. 2009. Writers Perception of 'U Thlen' in Khasi Literature, *Tribal Literature of North-East India*, 17-27.

Dkhar, S. 2008 Halor ka drama bad Ki Nongrim Thymmai Ka Thoh Drama, Ka Thwet Jingstad, *Quest for Knowledge*, 1: 11-21.

Jyrwa, M.B. 2008. Bishar Bniah bad U Nongthoh, Ka Thwet Jingstad, *Quest for Knowledge* 1: 5-10.

Jyrwa, M.B. 2008. Ka Bishar Kynthoh Halor Ka La Pra Lut Baroh, Ka Thwet Jingstad, 1: 18-27.

Jyrwa, M.B. 2009. The Issue of Visual Disability, *Tribal Literature of North-East India*, 103-108.

Kharmalki, A. 2008. Khyndiat halor ka Reader – Response Criticism. Ka Thwet Jingstad *Quest for Knowledge*, 1: 18-27.

Kharmalki, A. 2009. An Analysis of B.C.Jyrwa Creativity. *Tribal Literature of North-East India*, 153-158.

Nonglait, D.R.L, 2009. Literary Criticism and Tradition: A Study With Reference to Cutical Activities in Khasi. *Tribal Literature of North-East India*, 109-117.

Bairo, B. 2009. Eroding Traditional Values: The role of U Kni The Maternal Uncle in Present Day Society as Depicted in Khasi short stories. *Tribal Literature of North-East India*, 188- 194.

Bairo, B. 2008. Tang tiak halor ki Khana Lyngkot Ka Thwet Jingstad *Quest for Knowledge*, 1:28-31.

Books:

War, B. 2008. U Basan Ka Kastarbrij Ri-la-Dor, SMS Hi-Tech Impression, Shillong, pp 315.

War, B., 2009, *Tribal Literature of North-East India*. SMS Hi-Tech, Impression, Shillong.

Jyrwa, M.B. 2008. Ka Jingpule Shaphang Ka Ktien Mang Computers, Nongthymmai, Shillong.

Dkhar, S. 2008. *Clouds of Emotions (Collection of Poems)* Eses Plus

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Publication, Shillong, pp 50.

Dkhar, S. 2008. Na Lyngwiar Dpei I Mei (From the Mother's Hearth), Eses Plus Publication, Shillong, pp 54.

Dkhar, S. 2008. Poetry Reading Festival, Eses Plus Publication, Shillong, pp 35.

Kharmalki, A. 2008. La Pra Lut Baroh Liameroschse Publication, Shillong, pp 213.

Funds received from agencies other than NEHU

Source	Amount
Sahitya Academi	Rs. 68,000.00

Research Projects

Ongoing:

UPE project in Collaboration with the Department of Linguistics, NEHU, Shillong.

Honours/Awards/Recognition:

Prof. S.Dkhar was awarded 1st Prize at the 2nd North-East Poetry Competition, 2008, for the poem "The Shadow of Fear" by Poetry Society (India), on the theme Communal Harmony and National Integration held from 26th to 28th June, 2008 at Shilpgram, Guwahati, Assam.

DEPARTMENT OF LINGUISTICS

Head : Dr. Shailendra Kumar Singh
Telephone : 2723310(O)
E- mail : skingh@rediffmail.com

Thrust area of research: The thrust area of the Department is to research the numerous Tibeto-Burman and Austro-Asiatic languages/dialects of the North-East of India which are largely undescribed so far. The Department also aims to build up expertise for field work, data analysis, and descriptive linguistics by training students from MA level to the PhD level. Phonetic, phonological, morphological, syntactic, semantic and other levels of linguistic analysis will form the basis of teaching and research. Language related courses like Lexicography, Translation, Language Education, Sociolinguistics, Computational Linguistics etc in order to give a wide option for students of Linguistics. Under the Choice-based Credit system two new courses will be offered-Languages of North-East India and Language Ideology, and Language Technology and Text analysis.

Brief statement of academic activities: The Department runs the MA and Ph D Programmes.

Faculty:

Professor : J. War, M.A English, (Guwahati); M.A Linguistics (Delhi) Ph . D (Edinburgh).

Readers : Shailendra Kumar. Singh. M.A,Linguistics,(Delhi)
M.A,Hindi, (Kar)M.Phil and Ph.D (Hyderabad) .

Uma Rani Pappuswamy, MA , /M.Phil (Bharathiar) Ph.D (Mysore).

Lecturers : Saralin. A. Lyngdoh, M.A, NEHU M.Phil. (Delhi)

Barika. Khyriem, M.A, NEHU M.Phil (Delhi)

Bijoy Louis Dhanwar, M.A (NEHU), M.Phil. (Hyd.)

Visiting Professors /Fellow/Scholars in the Department:

(i). Prof.Venkateshwara Sastry,(retd) Osmania University.

(ii). Prof. A. K.Sinha (retd.) University of Delhi.

School of Humanities and Education

Student intake: 34

Actual Admission:	SC	ST	OBC	Male	Female	From Meghalaya	Outside Meghalaya
MA	-	32	2	5	29		
Ph.D	-	5	-	2	03	4	1

Degrees Awarded:

	SC	ST	Gen	Male	Female	Total
M.A.	-	21	-	3	18	21
Ph D	-	3	1	3	1	4

Ph.D

Curiously Bareh "Descriptive Analysis of the Jowai and Rymbai Dialects of Khasi". Supervisor: Prof. J. War.

Pauthang Haokip "The Phonology of Thadou: A typological and Generative Study". Supervisor: Prof. J. War.

Atiqua Bano- "A descriptive Study of Phom Language". Supervisor: Dr.S.K.Singh.

Loshii Heshu- "An Ethnosemantic study of the Mao Language" Supervisor: Prof. J. War.

Placement of students: Seven students have joined lecturers in Universities, including Tribhuvan University in Nepal and in Bhutan and in the Republic of China. One is Academic Coordinator of NELD Project CILL.

Courses conducted:

Semester I: Introduction to Linguistics; Morphology; Syntax 1; Phonetics and Phonology.

Semester II: Part 1 Semantics, part 2 Linguistics and Environment; Sociolinguistics; Lexicology and Lexicography, Syntax 11 and ' Language Technology & Text Analysis.

Semester III: Generative Phonology; Historical and Comparative Linguistics; South Asia as a Linguistic Area with special reference to North- East India; Readings in Linguistics.

Semester IV: Structure of TB/AA ; Field Methods (Dissertation); Language, Education; Translation Theory and Practice.

Study tours/Field trips of students: Study Tour to Central Institute of Indian Languages, Mysore and Trivandrum. Teacher in Charge by Mr B.L.Dhanwar (Lecturer) from 5th Jan to 30th Jan '09. The students who attended the Refresher Course in Historical and Comparative Linguistics at CIIL, Mysore were given training in phonetics analysis of Speech sounds using Computational Software at International School of Dravidian Linguistics, Trivandrum.

Seminars/ Conferences/ symposia/ workshop/ extension programmes etc.:

Organized:

(i). LIS- India Workshop in collaboration with Central Institute of Indian Languages, Mysore, on 22nd- 28th Nov, 2008.

(ii) 4th International Conference of North East Linguistics in collaboration with Latrobe University, Australia and Gauhati University, Guwahati on 12-17, Jan 2009.

(iii) North East India Linguistics Society Workshop in collaboration with Guahati University and La-Trope University Australia, on 15th -17th Jan 2009.

(iv) Workshop on Development of Lexical Resources in Indian Languages in collaboration with UPE Project, on 17th March, 2009.

(v) 1st International conference on World Language and North East Languages in collaboration with NEC, Shillong ICSSR, Shillong and CIIL, Mysore, on 18- 20 March, 2009.

Attended:

Juanita War: presented paper on "Aspects of Khasi Morphology at the North Eastern India Linguistics Conference during Jan 2009. Small Words, big function' at the first International Conference on 'World Language and North East Language from 18th 20th March 2009, organized by Department of Linguistics, NEHU, Shillong.

Shailendra. Kumar. Singh: presented papers on "*Pu:rvotar bha:rat me bhaSa: shikchan ki smasya:ye*" at National Seminar on Hindi in North East Region, during April 5-8 2008. North-Eastern Hill University, Shillong. *Indian English Varieties and Celebration of Third* at National Seminar on Problems of Spoken English in Hindi Heartland their Solutions. 19- 20 Nov, 2008. Ranchi: ELT Jharkhand.

Umarani Pappuswamy: Presented paper on Knowledge Representation and Reasoning in a Physics Tutoring System, at the 1st International Conference on World Languages and North East Languages, March, 2009, NEHU, Shillong.

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Barika Khyriem: (i) attended workshop LIS-INDIA as a resource person organized by CIIL Mysore in Department of Linguistics, NEHU, 24-28 Nov, 08. (ii) North East India Linguistics Society Workshop organized collaboratively by Guahati University and La-Trope University Australia in the Department of Linguistics, NEHU on 15-17 Jan, 2009. (iii) International Conference on World Language and North East Languages organized jointly by Department of Linguistics NEHU, ICSSR, NEC and CIIL Mysore. 18-20, 2009.

Publications:

Journals:

Umarani, P. 2008. "SALR Volume" (eds). Delhi: Creative Publication.

Books:

War, J. 2009. Uncharted Territory: Challenges of the Unknown. In: S.K.Singh (Ed) Rethinking Multilingualism: Issues & Problems. Guwahati: Eastern Book Publication.

Singh, S. K. (ed) 2009. Rethinking Multilingualism: Issues and Problems. Guwahati: Eastern Book House.

Singh, S.K. 2009. Deep Multilingualism and Linguistic Temptation: Celebration of Third. In: S.K Singh (ed), Rethinking Multilingualism: Issues and problems (ed). Guwahati: Eastern Book House, pp- 105-155.

Singh, S. K. and A. Bano. 2008 (e- printed). Linguistic Ecology of Phom Language, *South Asian Language Review*. Delhi: Creative Books Publication, pp 49-63.

Singh, S. K. 2008. bha:Sa ka sandhantik pakch aur tisri parmpara ki khoj 89/2008 gaveshana pp 25-45.

Research Projects:

Ongoing

Research in Tibeto-Burman and Austro- Asiatic Languages in NE India-Phase 1" UPE Project Areas Studies – II in collaboration with the Department of Khasi, NEHU. PI: Dr. S.K.Singh. Total Amount: Rs 30 Lacs/-.

Other Activities:

S.K Singh: (i) Resource person in Refresher course in English by Department of English, NEHU 25 Feb- 18th March. Co- Editor: Longman-CIIL English – Hindi

Dictionary Personal Education Pvt and Coordinated: LIS- India Workshop in collaboration with Central Institute of Indian Languages, Mysore on 22nd- 28th Nov, 2008.4th (ii) International Conference of North East Linguistics. In collaboration with Latrobe University, Australia and Guwahati University on 12-17, Jan 2009. (iii) North East India Linguistics Society Workshop organized collaboratively by Guahati University and La-Trope University Australia in the Department of Linguistics, NEHU. 15th -17th Jan. (iv) Workshop on Development of Lexical Resources in Indian Languages. In Collaboration with UPE Project on 17th March, 2009.1st International conference on World Language and North East Languages. In Collaboration with NEC, Shillong and ICSSR, Shillong on 18-20, March, 2009.

Umarani Pappuswamy delivered talks on Advances in Computational Linguistics and Artificial Intelligence at Aligarh Muslim University and Punjabi University in November 2008. and at Bharathiar University, Coimbatore, October 2008, for the UGC Refresher Course. Effective Use of Information Technology in Language Teaching and Learning. He also delivered a talk at NGM College, Pollachi, Coimbatore in September 2008, plenary Talk "entitled Development of Classical Tamil Resources", at Alagappa University, Karaikudi in March 2008.

DEPARTMENT OF PHILOSOPHY

Head : Professor Binod Kumar Agarwala
Telephone : 0364- 272-3551 (O) , 2722037 (R)
E-mail : hodphi@nehu.ac.in

Thrust Area of Research:: Philosophy of Culture with special reference to the tribal thought of the North-Eastern region.

Brief statement of academic activities: The Department is running a Ph.D. programme to enrich research activities in the various fields of philosophy. Both in teaching and research it gives special attention to the areas of analytical philosophy and philosophy of culture with special reference to the tribal thought of the North-Eastern region. The faculty members of the department served as resource persons for refresher courses in and out of NEHU, participated and presented papers in regional, national and international seminars/conferences. The faculty members

School of Humanities and Education

published a good number of papers and books emanating from their research work.

Faculty

- Professors** : C. R. Agera, M. A. (Madras), Ph. D. (Delhi)
 Jagat Pal, M.A. (Allahabad), Ph.D. (IIT, Kanpur).
 Binod Kumar Agarwala, M.A., M. Phil. (Delhi),
 Ph.D. (Lucknow)
 Vanlalnghak, M.A. (NEHU), Ph.D. (IIT, Kanpur).
- Readers** : Prasenjit Biswas, M.A., Ph.D. (NEHU).
 L. Lenka, M.A (Utkal), M. Phil., Ph.D. (Hyd.)
- Lecturers** : X. P. Mao, M.A (NEHU), M. Phil. (Delhi), M. Lett. (Sydney),
 Ph.D. (NEHU)
 E. R. Tongper, M.A., M. Phil., Ph.D. (NEHU).
 Basil Pohlong, M.A., Ph.D. (NEHU)
 N. Parthasarathy, M.A. (SPGD), M. Phil. (Madras)

Student Intake:

M. A.

Enrolment Capacity: 50

Actual Admission:	SC	ST	Genl.	OBC	Male	Female	Meghalaya	Outside
	-	43	06	01	22	28	28	22

Ph. D.

Enrolment Capacity: Variable

Actual Admission:	SC	ST	Genl.	Male	Female	Meghalaya	Outside
	-	05	2	04	03	05	02

Degree Awarded:

M. A.: 29

Actual admission:	SC	ST	Genl.	Male	Female	Total
	-	45	05	27	23	50

Courses conducted: Indian Epistemology, Western Epistemology, Indian Moral Philosophy, Western Moral Philosophy, Issues In Contemporary Indian Society, Kant, Contemporary Applied Ethics, Philosophy of Natural Sciences, Contemporary Philosophy of Religion, Indian Metaphysics, Western Metaphysics, Symbolic Logic, Ethics & Environment, Analytic Philosophy, Social & Political Philosophy, Tribal Thoughts & Culture, Philosophy of Post Modernism, Contemporary Philosophy of Religion, Modernism & Responses, Philosophy of Religion, Indian Philosophy of Language, Philosophy of Human Rights.

Study Tours of students: Dr. X. P. Mao took the M.A. students on study tour to Pondicherry, Mysore and Bangalore from 08th to 30th January, 2009.

Seminars/Conferences/Symposia/Extension programmes etc:

Organized:

The ICPR sponsored National Seminar on *Hermeneutics of Philosophy, Politics and Culture* at the ICSSR-NERC Conference Hall, NEHU, Shillong, from 19th to 21st November, 2008. Prof. Vanlalnghak was the Director of the Seminar.

The ICPR sponsored One-day Workshop on *Consciousness and Culture* at the Department of Philosophy, NEHU, Shillong, to celebrate International Philosophy Day, on 12th December, 2008. Dr. Basil Pohlong was the coordinator of the Workshop.

The UGC sponsored Refresher Course on *Moral Philosophy: Western and Indian*, at the Department of philosophy, NEHU, Shillong, from 18th August to 08th September, 2008. Dr. Prasenjit Biswas was the coordinator of the Course.

Attended:

Prof. C.R. Agera Presented a paper, "Indra's Battle against Vrtra: A Hermeneutical Study", at the ICPR sponsored National Seminar on *Hermeneutics of Philosophy, Politics and Culture*, organized by the Department of Philosophy, NEHU, Shillong, 19th-21st November, 2008.

Prof. Jagat Pal presented a paper on "The Idea of Karma Samnyasa in the Bhagavadgita: An Interpretation", at the ICPR sponsored National Seminar on *Hermeneutics of Philosophy, Politics and Culture*, organized by the Department, of Philosophy, NEHU, Shillong, 19th - 21st November, 2008; also chaired the 2nd Academic Session of the Seminar. He also presented a paper on "Individual Property Rights, Economic Inequalities and Moral Obligation", at the ICPR sponsored National Seminar on *Perspectives in Social and Political Philosophy*, organized by the Department of philosophy, Gauhati University, Guwahati, 20th - 22nd November, 2008; also chaired the 6th Academic Session of the seminar.

Prof. B.K. Agarwala presented a paper on "Ontology of Literature: Gadamer's Hermeneutic Approach to the Being of Literary Works of Art", at the ICPR sponsored National Seminar on *Hermeneutics of Philosophy, Politics and Culture*, organized by the Department of Philosophy, NEHU, Shillong, 19th -21st November, 2008.

Prof. Vanlalnghak presented a paper on "Philosophy of Education for Peace" at the Regional Seminar on *Philosophy of Education for Peace*, sponsored by ICPR

and Assam University, Silchar, organized by the Department of Philosophy, Assam University, Silchar, on 27th November, 2008.

Dr. Prasenjit Biswas presented the following papers at different seminars and conferences. (i) "Daya Krishna's presuppositionless philosophy", at a National Conference on *Samvad and Swaraj* held at Institute of Advanced Studies, Shimla, 25 - 28 April, 2008. (ii) Towards an Ontological Sociality: A Hermeneutic Return to the other" at the ICPR sponsored National seminar on *Hermeneutics of Politics and Philosophy*, held at Shillong, 21-23 November, 2008. (iii) "Liberal Discourse on the idea of Good", at the ICPR sponsored National Conference on *Social Philosophy* at Gauhati University, Gauhati, on 24th November, 2008. (iv) "Recontextualizing Ethnic Life-Worlds in India's Northeast" at the UGC-SAP national conference on "Indigenous Knowledge Systems" held at Department of Comparative Literature, Jadavpur University, 15-17 January, 2009. (v) "Sense and Aporia: Reading Theories of Reference", at the National Conference on *Meaning and Understanding in Human and Literacy Studies*, held at Assam University, Silchar, 9 - 14 May, 2009. (vi) "Minority Cultures of India's Northeast: A Reconceptualization" at the ICPR National Conference on *National Integration*, held in Shillong, 20-23 March, 2009. (vii) "Reconstructing Social Sciences in India's Northeast: A Transformative Agenda" at the ICSSR National Conference on *Problems and Prospects of social sciences*, held in Shillong, 27-29, March, 2009. (viii) "Construction of Evil among the Nagas, Apatanis and Khasis of India's Northeast" at the IAS Conference on *Construction of Evil* at Kohima, on 31st March, 2009.

Dr. X P Mao presented a paper, (i) "Understanding, Interpretation & Action: An Essay on Scope and Limits of Hermeneutics", at the ICPR sponsored National Seminar on *Hermeneutics of Philosophy, Politics and Culture*, organized by the Department of Philosophy, NEHU, Shillong, 19-21, November, 2008. (ii) Presented a paper at the ICPR sponsored workshop on *Consciousness and Culture*, organized by the Department of Philosophy, NEHU, Shillong, on 12th December 2008 (International Philosophy Day). (iii) He also presented a paper on "Extremism in the North-East: Problems and solutions", at the National Seminar on *Extremism in North-East India*, on 6-7 March, 2009.

Dr. Basil Pohlong delivered a lecture on "Culture and Language of the Khasis of Meghalaya" at Mahidol University, Bangkok, on 27th September, 2008.

Publications:

Journals:

Agera, C.R. 2008. Purusa-sukta (Rg. Veda, X:90): Some Reflections on a Cosmogonic Myth. *The Journal of Religious Studies*, 37: 35-49.

Agera, C.R. 2008. Interface between Religion and Culture: A Study through the Narratives. *The NEHU Journal*, 6: 1-18.

Agera, C.R. 2008. Unequally Equal: An Essay in Tillich's Philosophy of Religion, *Suvidya*, 2: 18-30.

Agera, C.R. 2008. Forgive and Forget: An Essay in Human Predicament. *The Vedanta Kesari*, 95: 28-38.

Pal, J. 2008. Non-violence as a Social Value. *Journal of Indian Council of Philosophical Research*, 24: 75-90.

Agarwala, B.K. 2005. Possibility of Categorical Imperative and the Paradox of Radical Evil in Kant's Critical Philosophy. *Journal of Indian Council of Philosophical Research*, 22: 65-113.

Agarwala, B.K. 2005. A reply to A. Kanthamani's Prof. B. K. Agarwala's Lethal Hermeneutic Strategy. *Journal of Indian Council Philosophical Research*, 22: 215-239.

Agarwala, B.K. 2007. Kant on the Proofs for the Existence of god and the sole Fact of Reason, Sandhan. *Journal of Center for Studies in Civilizations*, 7: 107-153.

Biswas, P. 2008. The Bali Execution, Economic and Political Weekly, Biswas P. 2008. Post-Development, Democratic Discourse and Dissensus: A Critique of Vision 2020 *Eastern Quarterly*, 4: 178-188.

Biswas, P. 2008. Book Review: Rafique Dossani et.al's Prospects of Peace in South Asia, Orient Longman, Hyderabad, 2006, *The NEHU Journal*, 133-140.

Biswas, P. 2008. Re-thinking the *Tibetan Cause* in the Northeast at www.assamtimes.org/editorial/1521.html.

Lenka, L. 2008. Book Review: Dialectics of the Self: Transcending Charles Taylor by Ian Fraser, Imprint Academic, 2007 Metapsychology Online Review. http://metapsychology.mentalhelp.net/poc/view_doc.php?type=book&id=4345

Book Publications:

Pal, J. 2008. The Nyaya Theory of Denotation, in Kantilal Das and Anirban

Mukherjee (Eds.) *Language and Ontology*, Northern Book Centre, New Delhi.

Pal, J. 2008. Moral and Office Values in C. K. Sharma (Ed.) *Moral Philosophy: Contemporary Perspective*.

Agarwala, B.K. 2008. The Beautiful Symbolic Ethical Life: An Exploration in Vedic Aesthetic Ontology. In: Kapila Vatsyayana and D. P. Chattopadhyaya (Eds.), *Aesthetic Theories and Forms in Indian Tradition*, ISBN: 81-87586-35-4, Centre for Studies in Civilizations, New Delhi, pp 203-229.

Agarwala, B. K. 2007. Hermeneutic Experience and the Law of Karma Language and Interpretation. In: Manjulika Ghosh and Raghunath Ghosh (Eds.), *Hermeneutic from East-West Perspective*, ISBN: 81-7211-230-0, 978-81-7211-230-1, Northern Book Center, New Delhi, pp 17-55.

Biswas, P. 2009. Exploring Postmodernism: A Prognosis into Language, Sense and Cognition. In: Nirmalya Narayan Chakraborty (Ed.) *Language, Thought and Reality*, Rabindra Bharati University Publication, Kolkata, pp 137-209.

Biswas, P. 2009. Land and Inter-Ethnic Conflict in India's North-East: Middle Grounds in a State of exception. In: Ch. Priyaoranjan Singh (Ed.), *Tribalism and the Tragedy of Commons*, Akansha, New Delhi, pp 47-67.

Funds received from agencies other than NEHU:

Source : ICPR

Amount: 2,80,000

Infrastructure facilities: One Computer Lab and two digital class rooms.

Research Projects:

Ongoing: UPE Project entitled "World-Views, Religion and Ideologies of Tribes and Ethnic Communities of North-East India and Similar Societies of South-East Asia: A Comparative Study".

Honours/Awards/Recognitions:

Dr. Basil Pohlong was awarded ICSSR- NRCT fellowship for conducting research on "A Comparative Study in Khasi MonKhmer Relationship" for a period of one month (w.e.f. 10.8.09 to 11.9.2008).

The Book entitled *Ethnic Life-World in North-east India* by Prasenjit Biswas and Chandan Suklabaidya published by SAGE, Thousand Oaks, California and New Delhi, 2008, received favourable reviews in the following: (1) Reviewed by Udayon Misra in *The Book Review*, Vol. XXXII, Number 12, December 2008, pp. 22-3. (2) Reviewed by Namrata Goswami in *Strategic Analysis*, Vol.33, No.2, March, 2009, pp. 308-10.

Other activities:

Prof. Jagat Pal delivered one lecture and chaired one Academic Session at the National Seminar on Building of Technical Terminology and Scientific Writings in Humanities Subject, organized jointly by the Commission for Scientific and Technical Terminology, New Delhi and the Department of Hindi, NEHU, Shillong, from 19-21 September, 2008. He delivered six lectures on Greek Epistemology as a Resource person in a Refresher Course organized by the Department of Philosophy, Manipur University, Manipur from 10th to 12th December, 2008. He Delivered two lectures on Indian Philosophical traditions and Indian Cultural Heritage and Cultural Identity, as a Resource person in an Orientation Course, organized by the Department of Education, NEHU, Shillong (On 23rd and 25th February, 2009). He also Delivered three lectures on Indian Philosophical Traditions, Indian Cultural Heritage and Value-based Education, as a resource person in an Orientation Course, organized by the Department of Education, NEHU, Shillong (On 25th and 28th March, 2009).

Prof. B.K. Agarwala delivered two lectures on "Rawls's Political Theory of Justice" at the UGC sponsored Refresher Course in Political Science on the theme of Contemporary Trends in Political Science, organized by the Department of Political Science, NEHU, Shillong (On November 3-4, 2008). He also delivered two Lectures on "Ontology of Literature: Gadamer's Hermeneutic Approach to the Being of Literary Works of Art" at the Refresher Course in English (February 25th to March 18th, 2009) on March 12, 2009.

Prof. Vanlalnghak delivered six Lectures on "Greek Epistemology" in a Refresher Course, organized by the Department of Philosophy, Manipur University, during 10-13 December, 2008. Was director of the ICPR sponsored National Seminar on Hermeneutics of Philosophy, Politics and Culture, organized by the Department of Philosophy, NEHU, Shillong, 19-21 November, 2008.

Dr. Prasenjit Biswas delivered four lectures at the Refresher Course in the department of History, NEHU, Shillong (10-12 November, 2008). He also delivered two Lectures at Refresher Course in the Department of Political Science, NEHU, Shillong (17-18 October, 2008). He also delivered two lectures on "Philosophical Methods" at Orientation Course held at the Centre for Adult and Continuing Education (CACE), NEHU, Shillong, on 23rd and 24th March, 2009. He Co-ordinated the UGC sponsored Refresher Course on Moral Philosophy: Western and Indian, held at the Department of Philosophy, NEHU, Shillong, 18th August to 8th September, 2008.

Dr. Basil Pohlong was the coordinator of the ICPR sponsored Workshop on

Consciousness and Culture, organized by the Department of Philosophy, NEHU, Shillong, on the 12th December 2008 to celebrate International Philosophy Day.

CENTRE FOR ADULT AND CONTINUING EDUCATION

Head : Dr. B.P. Sahu
Telephone : 0364-2723328, 2726028
E- mail : bishnusw@yahoo.com

Thrust areas of research: The thrust areas of the Centre is to strengthen the teaching learning process of teachers and students through community participation, to establish closer linkage between formal and non- formal education, to identify the community needs, problems, issues, etc and to develop, establish and give an identity to the discipline of Adult Education, Continuing Education, Extension Education (Field Outreach), Literacy, Post Literacy and Universalisation of Education. The other thrust areas of the Centre also includes Education for Women Empowerment, Environmental Education, Human Rights, Workers Education, Migrants Education, Indigenous Education, HIV/AIDS Education, Adolescence Education, Vocational Education and Training, Information and Communication Technology, Policy Advocacy on Transformation of Adult Learning, Leadership Development and Capacity Building, Science for Masses, Learning Environment and Opportunities for the under privileged, Net Working, Voluntary Action, Action Research, Working with Children, Innovation and Good Practices in Adult Education, E Learning, Counselling and Guidance (Pre-Marital and Career), Teachers Training, Self Employment, Entrepreneurship, Needs of the Aged and Family Life Education.

Brief Statement of Academic Activities: The Centre concentrates its activities on Teaching, Research and Extension Education. Special attention is given to Open Courses, (Extension Education and Demography) wherein students from other departments/centres opt for the course. Attention is also given to Adult and Continuing Education for University groups and to groups which do not have access to the university system on major issues with a view to cultivate the habit of self-education. The Center also focuses its teaching activities through innovative teaching like E Learning. Besides, the Centre focuses on the provision of Continuing Education

in the changing socio-economic scenario and works on the projects for social change. The Centre has designed need-based innovative academic and skill building programmes in tune with the changing and emerging needs.

Faculty :

- Professor : E. Jyrwa, M.A, Ph.D. (NEHU)
 Reader : B. P. Sahu, MSW, Ph.D. (KUK)
 Lecturers : W. S. Mylliemngap, M.A, MPhil (NEHU)
 J. Mawthoh, M.A, Ph.D. (NEHU)
 N.P. Goel, M.Sc, MPS (IIPS) Mumbai, Ph.D. (NEHU)
 J.I. Rapthap, MSW (Bombay University)
 E. Syngkon, M.A, Ph.D. (NEHU)

Student Intake :

Enrollment Capacity: P.G.Diploma – 30; P.G.Certificate – 25; Ph.D –Variable

Actual Admission:	Gen	SC/ST	Male	Female	Meghalaya	Other States
P.G. Diploma	-	29	7	22	28	1
P.G. Certificate	-	-	-	-	-	-
Ph.D	1	3	-	4	1	3

Degrees Awarded:	Gen	SC/ST	Male/Female	Total	
P.G.Diploma	-	7	1	6	7
Ph.D	-	1	1	-	1*

J. Mawthoh (2008), A Study of the Perception and Practices of Adults on Solid Waste Management in Shillong under the guidance of Dr. B.P.Sahu.

Placement of Students: The Centre has a Career and Guidance Cell. The Students are placed as Teachers, Counselor in SOS Village, Project Officers in UNDP and Other Voluntary Organisations.

Courses Conducted: P.G. Certificate in Adult and Continuing Education

P.G. Diploma in Adult and Continuing Education

Certificate course in Basic Computer Literacy

Certificate course in C++ Programming

Certificate course in Research Methodology

Certificate course in Disaster Management

Seminars/Conferences/Symposia/Workshop/Extension programmes etc

Organised:

(a) Workshops and Training Programmes

One week training programme on “Capacity Building of teacher educators (SCERT/DIET faculty members) of North East on Computer Literacy” organized by CACE in collaboration with NERIE, Shillong from 4th to 8th August 2008 at CACE, NEHU (Coordinator – Dr. B.P. Sahu).

Three day workshop on Disaster Management: Preparedness, Prevention and Mitigation from 5th – 7th November, 2008 at CACE, Seminar Hall, Permanent Campus, NEHU, Shillong. (Coordinator – Dr. B.P. Sahu).

Training on Disaster Risk Management: First Aid, Rescue and Mock drill from 2nd to 6th March 2009. (Coordinator – Dr. B.P. Sahu assisted by Dr. E.Syngkon, Miss J.I.Rapthap, Mrs Bolivia Langstieh and Dr. N.P.Goel).

National Workshop for Development of Arithmetic Teaching Tools for Illiterates and Neo-Literates from 9th to 13th March 2009. (Coordinator – Dr. B.P. Sahu).

National Workshop on Research Methodology And MATLAB from 23rd – 30th March 2009. (Coordinator – Dr. B.P. Sahu & Asstt. Coordinator – Dr. N.P. Goel).

(b) Extension Programmes:

Three Day Income Generating Training Programme in Tailoring and Embroidery held at Pohkseh Training Center, Shillong from 19th to 21st January 2009 (Dr E.Syngkon).

Two Day Income Generating Programme for women at Ri Bhoi District on 13th and 14th January 2009 (Ms. J.I. Rapthap).

Vocational Training for unemployed youth and Environment Building programme on literacy in adopted village (Arapara), South Garo Hills from 12th – 16th January 2009 (Dr. B.P. Sahu).

One week Rural camp for out of school youth at Dadengiri, West Garo Hills from 9th to 13th March 2009. (Dr. B.P. Sahu assisted by Dr. N.P. Goel).

Homeopathic and acupressure Medical Camp at NEHU Campus on 28th March 2009 (Dr. B.P. Sahu and Dr. N.P.Goel).

Legal awareness Programme at Mawkynew on 27th January 2009 (Mrs W.Mylliamngap).

Environment Building Programme on Literacy in the Center's adopted village, Rymbai, Jaintia Hills on 7th and 8th January 2009 (Dr. N.P. Goel).

One day programme on Adolescence Health Education for Students and Teachers at COG Pongkung Higher Secondary School, West Khasi Hills on the 25th Feb 2009 (WS Myllemngap).

Health Awareness Programme at Mawkyrnut, EKH on the 16th March 2009 (WS Myllemngap).

Awareness programmes on Adolescence Education Garo Hills covering thirty five (35) schools from 21st to 25th July 2008 and from 23rd to 27th September 2008. (Dr. B.P. Sahu).

The National Education Day was observed on 11th November 2008 in accordance with the guidelines provided by The Ministry of Human Resource Development.

Attended:

B.P.Sahu (i) attended and delivered a lecture on "Importance of community participation in Mock Drill for disaster mitigation" Competition on 10th April 2008 in Umling Village of Umling C & RD Block, Ri-Bhoi District; (ii) acted as a resource person on the topic "Mock drill, Purpose of Mock drill and Guidelines for Mock drill conduction" for all Gram Sevaks and Block Dealing Assistants of Disaster Risk Management Programme, on the 26th May 2008, at Nongpoh, Meghalaya; (iii) acted as a resource person for orientation of "Master Training Programme in Science and Mathematics for the teachers of Meghalaya", organized by NERIE from 20-26 June, 2008 at DIET, Tura (Meghalaya) and delivered lectures on; (iv) learning for Neo literates in the context of Globalization, Privatization and Liberalization" on the eve of 57th National Adult Education Conference on the theme " Lifelong Learning- Opportunities and Challenges" held at Shivaji University, Kolhapur, Maharashtra from 19-21 December 2008; (v) delivered a lecture as resource person on "HRD: Strategies and Policies" in the Orientation Course organized by ASC, NEHU on 26th March 2009 on the eve of UGC-ASC Orientation Course organized by Department of Education from 24th March to 23rd April 2009;

E.Jyrwa (i) participated as resource person in the Course Writers meeting for "Developing syllabus for Diploma Course in Population Education and Development Education" in IGNOU, New Delhi 17-18 September 2008 at Conference Hall, CEE, IGNOU, New Delhi; (ii) attended and nominated to act as the university nodal person at "the NEHU-PRIA (Participatory Research In Asia) collaborations – exploring

opportunities and possibilities” organized by PRIA, on the 7th August, 2008 at NEHU, Science Seminar Hall, Permanent Campus; (iii) attended the meeting and presented a paper on “Research experiences of SSA in Meghalaya” on the eve of State Research Advisory Committee, SSA, Kerala held on 3.2.09 and 4.2.09 at Thiruvananthapuram.

J.Mawthoh (i) participated as writer in a 3 day “Review workshop of IPCL I & II in Khasi Language” from 25 -27 June 2008 at Bijni Complex, NEHU organized by SRC, NEHU (ii) participated in the Workshop on Peace Education and presented paper on “Resistance without Violence: Gandhian Initiative” on 15-16th July 2008 at Itanagar organized by RGNIYD; (iii) presented a paper on “Introduction and overview on Human Rights” in a Workshop cum annual Camp organized by SCMI, North East India on the theme “Peace building” from 10–13 October 2008; (iv) presented a paper on “Save Umiam Lake through Community participation” in the Shared Learning Stakeholder dialogue and future strategies on Umiam Lake Conservation on 9-10 March 2009 at Pinewood Hotel organized by People’s Learning Centre; (v) participated as Expert in the National Conference of SRCs on 13th-14th May 2009 at DAE, MHRD,GOI, New Delhi organized DAE, MHRD,GOI, New Delhi.

W.S. Myllemngap (i) attended a seminar on “ Women Empowerment” organised by Seng Kynthei Mawten (Mawkyrwat Block) and presented a paper on “Role and responsibilities of Women for the upliftment of the society” on 25th October, 2008; (ii) attended as a resource person in the Training Programme on Social Science/Studies organized by DIET, Sohra on the 20th Feb 2009 at Basic Training Centre, Shillong and delivered a lecture on Role of Teachers in Disaster Management; (iii) attended as a Resource person in Writers Workshop for Review of IPCL Primer 1,11 and 111 in Khasi language organized by State Resource Centre NEHU from 25-27 June 2008.

J.I. Raptap (i) attended as a resource person a three day “Training in Basic Disaster Management Course” on the 4th December 2008 organised by the Director, Meghalaya Administrative Training Institute at MATI, Government of Meghalaya, Shillong for Block Development Officers (BDO’s) of East Garo Hills/West Garo Hills /South Garo Hills District of Meghalaya and delivered a lecture on “Crisis intervention through Counselling” on 4th December, 2008; (ii) attended as a resource person and delivered a lecture on “Women and Income Generating Activities through formation of SHGs” on 9th March 2009 in a programme organized by Social Welfare Deptt, Govt of Meghalaya, to observe the International Women’s Day.

N.P.Goel (i) acted as resource person in a five day training-cum-workshop from 4-8 August on “Data Base Management in Social Science Research” in order

to impart training on the usage of SPSS package for social science research scholars and faculty members of North Eastern Region on 8th August 2008 at the Academic Staff College, NEHU, Shillong; (iv)

Book publication

Sahu, B.P. 2009. Distributed Computing and Mobile Computing, IGNOU, New Delhi

Research projects:

Ongoing:

A Comparative Study on the need for Counselling services for standard IX and Xth students in Shillong. (Ms.J.I.Rapthap)

Completed:

HRD for Tribals. PI: B.P.Sahu.

Problems of Mathematics Education in North East India. PI: B.P.Sahu

Self Help Group Movements in Haryana. PI: B.P.Sahu

Improved Implementation of Shillong Municipal Solid Waste Management, a consultancy Project funded by Ministry of Environment and Forests, Government of India and The World Bank being implemented by The Energy and Resources Institute (TERI), New Delhi P.T. E. Syngkon.

Dr. E. Jyrwa was nominated UGC member standing committee on ACEFOR for the XIth Plan period. She was also nominated Member of the State Research Advisory Committee, Saru Shiksha Abhiyan, Govt. of Kerala for a period of three years (2009-2011)

Ms.J.I.Rapthap and Mrs W.S.Mylliemngap attended and completed the UGC-ASC one month Orientation Course organized by the Department of Education, NEHU from 26th Feb – 26th March 2008 at NEHU Shillong

Mrs. W.S.Mylliemngap attended and completed the UGC –ASC Refresher Course on Foundation of Education organised by Department of Education from 2nd Dec – 23rd Dec 2008.

Other activities

Dr N.P. Goel acted as resource person in the UGC- Sponsored Refresher Course in Library and Information Science, Department of Library and Information

School of Humanities and Education

Science, NEHU, Shillong from 19th August to 9th September, 2008, and delivered lectures on 'Statistics in Research' on the 21st and 22nd August 2008; (v). acted as resource person in the UGC- Sponsored Refresher Course in Political Science, Department of Political Science, NEHU, Shillong from 14th October to 5th November, 2008, and delivered lecture on 'Use of Computer in Political Science Research' on the 20th October 2008; (vi).acted as resource person in the UGC- Sponsored Refresher Course in Education Department, NEHU, Shillong from 2nd December to 23rd December, 2009, and delivered lectures on 'Computer Application, SPSS Package and Excel Package' on the 12th Dec., 13th Dec., and 16th Dec. 2008; (vii). acted as resource person in the UGC- Sponsored Refresher Course in Education Department, NEHU, Shillong from 24th February to 23rd March, 2009, and delivered lectures on 'Use of Power Point, SPSS Package and Excel Package' on the 28th Feb., 7th March, and 14th March 2009; (viii).acted as resource person in the UGC- Sponsored Refresher Course in Education Department, NEHU, Shillong from 24th March to 23rd April, 2009, and delivered lectures on 'Statistics in Research and use of computer based programs like SPSS, STATISTICA etc' on 24th, 28th March and 2nd, 10th and 11th April 2009; (ix). acted as resource person and delivered four lectures on "Excel I, Excel II, SPSS I and SPSS II" on the eve of UGC-ASC 3rd Orientation Course in Education, organized by Department of Education, NEHU on 12.3.09 and 20.3.09; (x).acted as resource person and delivered two lectures on "Excel and SPSS" on the eve of UGC-ASC 4th Orientation Course organized by Department of Education, NEHU on 24.3.09 and 28.3.09. (xi).Attended as resource person in one week National Workshop on Research Methodology and Matlab and delivered lectures on "Practical applications of Matlab" from 23rd -30th March, 2009 at CACE.

CENTRE FOR DISTANCE EDUCATION

Head : Dr. R.N. Rai
Telephone : 0364-2226822, 2228705 (O)
E-mail : rnrai1957@yahoo.com.in

Thrust area of research: The thrust area of the Centre is to offer General, Certificate, Diploma and Degree courses in distance mode to all those who have for some reason or other been deprived of formal education and are seeking higher education irrespective of age or region where they reside. The Centre offers Degree, Diploma and Certificate courses through distance mode relevant to the region.

Brief statement of academic activities: (i). The Centre offered six weeks General Course in Floriculture, (ii). Six months Certificate Course in Floriculture. (iii). One year Post Graduate Diploma Course in Entrepreneurship (iv). Two years B.Ed.-SEDE(b). Workshops Workshop organized for Coordinators & Academic Counsellors On "E-Learning with Focus to Educational Internet Domains on 18th and 19th March 2009.

Faculty:

Professor : Debjani Roy, M.Sc, Ph.D (NEHU) On deputation to IGNOU for one year
Readers : R.N. Rai, MA, Ph.D. (BHU),
 S. Wangoo, M.Sc., Ph.D. (Kashmir)
Lecturers : S.N. Sharma, MA, Ph.D., (Gauhati).
 R.C. Pandey MA, (Kyumaon)

Student Intake:

Enrolment capacity:

For Distance Education any number of distance learners can be Enrolled:

Actual Admission	SC	ST	Gen	Male	Female	Meghalaya	Outside
B.Ed.-SEDE	0	13	8	5	16	2	19
Post Graduate	0	6	3	7	2	3	6
Diploma in Entrepreneurship							
Certificate Course in Floriculture	0	6	14	15	5	8	12

Degrees Awarded:

Certificate in Floriculture: 9

Post Graduate Diploma in Entrepreneurship: 1

Placement of students:

The students are engaged in horticulture nursery and flower business

Courses conducted:

Certificate Course in Floriculture

General Course in Floriculture

Post Graduate Diploma in Entrepreneurship

B.Ed. SEDE

Field trips of students (i) Dr. S. Wangu, Dr. J. K. Durong took the Floriculture distance learners to the Government of Fruit & Flower Garden on 1st October 2008 for Orchid Plantation. (ii) Dr. S. Wangu, Dr. J. K. Durong took the Floriculture distance learners to Delhi Rose Farm and Government Fruit Garden on 29th June 2007 and 12th October 2008 to acquaint with the Plantation preservation and commercialization of the Rose (iii) Dr. S. Wangu, Dr. J. K. Durong took the Floriculture distance learners to Byrnihat (Anthuriums and Orchids) Rajdhani Nursery and farmers on filed at Umran 13th & 14th October 2008.

Seminars/conferences/symposia/extension programmes etc

Organized

Induction Programme for the Floriculture distance learners students organized in April 2008.

Induction Programme for Post Graduate Diploma in Entrepreneurship distance learners organized on October 2008.

Dr.(Mrs) S. Wangu organized and conducted counseling programme for Certificate and General Course in Floriculture Programme from 25th April to 23rd May 2008 and 27th September to 13th December 2008.

Attended

Dr.R.N.Rai: Attended: 13th International and 44th National Conference of the Indian academy of Applied Psychology held from 30th January to 1st February 2009 Paper presented entitled "Perceived Parental Rearing Style and Personality among Khasi Adolescents". National Seminar on "Extremism in North east India held on 6th and 7th March 2009 organized by the North East India Council for Social Science Research. Chaired Scientific Session on 31/1/09 of the 13th International and 44th National Conference on IAAP held at Aurangabad, from 30th Jan to 1st February 2009.

Prof. Debjani Roy invited to participate in the Brain Storming Session on "Agricultural Policy for North eastern Region" organized by the School of Agricultural, IGNOU at New Delhi in May 2008 delivered Key Note Speaker at the UGC National Workshop on "Commercialization of Floriculture in Northeast India" in August 2008, acted as Invited Panelist for the Women Indian Distance Education Network (WIDEN) Meet for the International Distance Education Association (IDEA) conference in November, 2008, Invited Chairperson for the Technical Session for the International Distance Education Association (IDEA) Conference in November 2008.

Publications:

Journals:

Rai, R.N. 2008. A Study of Emotional Maturity among MIZO Adolescents. *Indian Psychology Review*, 71.

Rai, R.N. 2008. Self Esteem and Drug Addiction among Mizo adolescents. *Magadh Journal of Social Research*, 14: 1-5.

Pandey, R.C. 2008. Academic Achievement as Related to Achievement motivation and Parental Background. *Indian Psychological Reviews*, 70: 213-216.

Pandey, R.C. 2008. Self Esteem and Drug Addiction among Mizo Adolescents. *Magadh Journal of Social Research*, 14: 1-5.

Pandey, R.C. 2008. A Study of Emotional Maturity among MIZO Adolescents. *Indian Psychology Review*, 71.

Books

Roy, D. 2008. The Education System in North East, Need for a Region Oriented Focus in North-East India, Administrative Reforms and Economic Development. Roy, D. 2008. Education Scenario in India: Need for New Concepts. In: Proceedings of the Ecological Society of India, published By Ecological Society of India and University Agricultural Science, Bangalore, pp 8-16.

Roy, D. 2008. Floriculture in North East India. In: Proceedings of the National Workshop on Commercialization of Floriculture in North Eastern Region of India, published by Dhing College, Assam PP 9-15.

Roy, D. 2008. Yogic Experience of Aswapahi in Synthesis of Yoga Series on PHISPC, New Delhi.

Funds received from agencies other than NEHU

Funding Agency	Amount (In lakhs)
DEC, IGNOU, New Delhi	Rs. 8.75 Lakhs

Academic/Professional Collaboration: The Centre will launch the following courses on Special Education in collaboration with the Rehabilitation Council of India, New Delhi.

- (i) Post Graduate Professional Diploma in Special Education PGPD-SEDE)
- (ii) Foundation Course on Education of Children with Disabilities (FC-SEDE)

Honors/Awards/Recognition:

Dr.R.N.Rai: Nominated as Council Member of Indian Academy of Applied Psychology from March 2008. Nominated as a Member of the North Eastern Zonal Coordination Committee (NEZCC) of the Rehabilitation Council of India, New Delhi.

Prof. Debjani Roy Nominated as Member, Governing Body, State Resource Centre, Ministry of HRD, Govt. of India from 2008.

Prof. Debjani Roy, Nominated as Member, Advisory Committee for North Eastern Regional Institute of Education (NERIE), NCERT, New Delhi from 2008.

Other activities:

The Centre is the IGNOU Study Centre, Shillong. Master Degree Programmes, Bachelor Degree Programmes, Diploma Programmes and Certificate Programmes are offered to students of different categories by the Centre. More than 1200 distance learners are enrolled under this study centre.

III

SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Dean : Professor B.K. Tiwari upto 15.01.2009
Professor B.S. Mipun from 16.01.2009
Telephone : 2723206 (O), 2550097(R), 9436102075 (M)
E-mail : bsmipun@hotmail.com

The School of Human and Environmental Sciences comprises of three Departments: the Department of Anthropology, the Department of Geography, the Department of Rural Development and Agricultural Production and one Centre of Studies namely, the Centre for Environmental Studies. The faculty members of the School are actively involved in post graduate teaching as well as in research programmes offered in each of the Departments and the Centre. The thrust areas of the research in the School are aimed at creation of knowledge and better understanding of the biocultural, environmental and natural resource management systems with special reference to the Northeastern region of India. This year 101 students were admitted to various post graduate programmes of the School. As many as 72 students passed their post graduate examinations. The Centre for the Environmental Studies started M.Sc. Programme this year with 16 students admitted to the programme. Seven research scholars were awarded Ph.D. degree; three each from Geography and Anthropology Departments and one from the Centre for Environmental Studies. The Department of Rural Development and Agricultural Production began its Ph.D. programme by admitting four research scholars. Fourteen major research projects sponsored by various funding agencies are being implemented by the faculty members of the School. Five new research projects were received by the faculty members belonging to the school while seven research projects were completed during the year. All full time research scholars are receiving fellowship and nearly all the teachers of the School are guiding Ph.D. students. The Departments and the Centre of the School have several collaborative research projects funded by national and international agencies. Such research collaborations

invariably include exchange of faculty and organization of seminars for dissemination of results. The Departments and the Centre of the School organized five national level seminars, workshops and training programmes. The Department of Geography is supported under UGC's Special Assistance Programme (SAP II) and received a special grant for infrastructural development during the year under report. The faculty members of the School are also actively collaborating with the Department of Atomic Energy, Government of India, Bhabha Atomic Research Centre, Mumbai in a research project pertaining to the proposed site of Uranium mining in Meghalaya. Some of the faculty members of the School are also working as Chair and member of various national committees, boards and task forces of the state and union governments.

DEPARTMENT OF ANTHROPOLOGY

Head : Professor R. Khongsdier
Telephone : 2723102 (O), 2550255 (R), 9863022193 (M)
E-mail : rkhongsdier@hotmail.com

Thrust Area of Research: The department aims to promote, consolidate and integrate anthropological teaching and research programmes by training students and creating expertise especially in the following thrust areas of research that are socially relevant and holistic in nature with special reference to Northeast India. (i) Population genetics including DNA studies with special focus on phylogenetic relationship of human populations and other related health issues. (ii) Biocultural aspects of human growth and nutrition. (iii) Demography, reproductive and child health (iv) Gender issues (v) Gerontology (vi) Ethnicity and identity.

Brief Statement of Academic Activities: The department admitted 28 students for M.A./M.Sc. programmes and 14 students for Ph.D. Programme during the year. Twenty seven (27) students successfully completed their M.A./M/Sc. and one student was awarded Ph.D. degree. One faculty member was promoted from lecturer to Reader, and one new Reader joined the department. The syllabus of the department was revised according to the requirements of the Choice Based Credit System and implemented with effect from August 2008. In addition to regular teaching and research activities, the department organized two workshop on "Methods of the

Evaluation Study of the Integrated Child Development Scheme (ICDS) in Meghalaya" in collaboration with the Directorate of Social Welfare, Government of Meghalaya: One on June 13-14, 2008 at NEHU and the other on July 10, 2008 at Tura. The department also organized a national workshop on "Rainwater Harvesting, Flood Control and Integrated Water Management in Northeast India" during October 16-17, 2008. The department carried out the "Evaluation Study of the Supplementary Nutrition Programme in Selected ICDS Projects of Meghalaya" in collaboration with the Directorate of Social Welfare, Government of Meghalaya. The project entitled "Culture, Genetics and Status of Health in Northeast India" under Area Studies of the University Potential for Excellence (UPE) Scheme of the University Grants Commission is ongoing.

Faculty:

Professors	:	T. B. Subba, M.A., Ph.D. (N. Bengal) H. Lamin, M.A., Ph.D. (NEHU) R. Khongsdier, M.Sc., Ph.D. (NEHU)
Reader	:	L. Zehol, M.A., Ph.D. (NEHU) D.K. Limbu, M.Sc., Ph.D. (NEHU)
Lecturers	:	V. Pakyntein, M.A., M.Phil. (Delhi) J.W. Dkhar, M. Sc., Ph.D. (NEHU) B. T. Langstieh, M.Sc., Ph.D. (Cal) Q. Marak, M.A., (GAU)

Student Intake:

Enrolment capacity = M.A. 28, Ph.D. Variable

Actual Admission:	SC	ST	Gen	Male	Female	From Meghalaya	Outside Meghalaya
M.A./M.Sc.	-	27	1	10	18	16	13
Ph.D.	-	12	2	7	7	5	9
Degree Awarded:	SC	ST	Gen	Male	Female	Total	
M.A./M.Sc.	-	23	3	8	19	27	
Ph.D.	-	1	-	-	1	1	
Ph. D.							

Ms. Lorna Barbara Bang "Reproductive Health in a Matrilineal Society: An Anthropological Study of the Khasis of Meghalaya." Supervisor: Prof. T.B. Subba.

Placement of Students: Mr. Bhaboklang Sohkhlet was appointed Lecturer at St. Claret College, Ziro, Itanagar, Arunachal Pradesh. Mr. Vikato Sumi was appointed DSP, Government of Nagaland, Kohima.

Courses Conducted: Following courses were conducted for M.A./M.Sc. students:

Semester I: Palaeo-anthropology; Archaeological Anthropology; Physical Anthropology; Social and Cultural Anthropology; Indian Prehistoric Archaeology.

Semester II: Human Origin and Evolution; Fieldwork Methods and Techniques; Human Ecology and Adaptation (**Open**); Anthropology of Northeast India (**Open**); Asian Prehistoric Archeology.

Semester III: Anthropology of India; Anthropology of Gender; Culture, Health and Medicine; Language, Culture and Society (**Open**); Demography; Human Genetics; Human Growth and Body Composition; Practical in Physical Anthropology-I.

Semester IV: Theories in Anthropology; Economy and Culture; Development Anthropology; Biostatistics; Biocultural Anthropology; Dental Anthropology; Practical in Physical Anthropology – II; Dissertation.

Study Tour/Field Trips of Students

Prof. Henry Lamin accompanied the 3rd Semester students to Saitsama village, Jaintia Hills District, Meghalaya, with effect from 8th to 23rd January 2009 for their fieldwork training. He also took them to Mumbai, Chennai and Kanyakumari for their Study Tour from 24th January to 9th February 2009.

Seminars/Conferences/Symposia/Extension Programmes, etc.

Organised:

The department organised a workshop on "Methods of the Evaluation Study of the Integrated Child Development Scheme (ICDS) in Meghalaya" in collaboration with the Directorate of Social Welfare, Government of Meghalaya on June 13-14, 2008 at NEHU and July 10, 2008 at Tura. The main aim of this workshop was to provide basic ideas and methods to officers and staff of the Directorate of Social welfare, Government of Meghalaya for evaluation of the Supplementary Food Programme in the state.

The department also organized a national workshop on "Rainwater Harvesting, Flood Control and Integrated Water Management in Northeast India" on October 16-17, 2008. The main purpose of this workshop was to provide a platform for deliberation and evolving workable solutions to the problems associated with water

harvesting and management. Eminent scholars, government officials and journalists participated in the workshop.

Attended:

Professor T.B. Subba attended: (i) international seminar on 'Facing Globalization: The Politics of Belonging in the Himalayas II' held at Frejus, France on September 18-20, 2008 and presented a paper entitled "Who does Talung Chu Belong To? The Panang Hydro-Electric Power Project and the Questions of Belonging", (ii) national Seminar on 'Teaching and Research in Anthropology in North-East India: Problems and Prospects' organised by the department of Anthropology, Gauhati University, Guwahati on February 5-6, 2009 and presented a paper entitled "Review of Research in Social-Cultural Anthropology under NEHU", (iii) 4th Inter-Congress of Indian National Confederation and Academy of Anthropologists (INCAA) on 'Anthropology in India: Current Epistemology and Future Challenges' organised by the department of Anthropology, Hyderabad University, Hyderabad on February 21-23, 2009 and made a roundtable presentation titled "Anthropological Ambivalences: Are there ways forward?", (iv) national Seminar on 'Interpreting Historical Developments in Northeast India: A Gender Perspective' organized by the department of History, NEHU, Shillong on February 26-27, 2009 and presented a paper titled "The Strengths of Gendered Historiography", (v) chaired the session on "Language, Culture and Media" at the "1st International Conference on World Languages and Northeast Languages: Convergence, Enrichment or Death?" organised by the department of Linguistics, NEHU on March 18-20, 2009, (vi) national workshop on 'National Integration and Identity-Violence' organized by the Indian Institute of Advanced Study, Shimla and the Indian Council of Philosophical Research, New Delhi on March 20-23, 2009 at North-Eastern Hill University, Shillong and presented a discussion paper entitled "Tribal India", and (vii) chaired the Inaugural and first technical sessions at the national seminar on 'The Construction of the Idea of Evil' organised by the Indian Institute of Advanced Study, Shimla and the Indian Council of Social Science Research, North Eastern Regional Centre, Shillong at Kohima, Nagaland during March 31 to April 1, 2009.

Dr. L. Zehol attended: (i) Regional seminar on 'Role of Women in the Conservation of Culture' organized by North East Zone Culture, Government of India and Women Study Centre, Nagaland University, on April 8-9, 2008 and presented a paper entitled "Women as Traditional Knowledge keepers-Cultural Values, Norms and Customs among the Nagas: Some observations", and (ii) Seminar on 'Nature, Culture and the Tribes of North East India' organized by the department of Sociology,

NEHU, Shillong, on September 2, 2008 and presented a paper entitled "Sacred/Undisturbed Forests of Nagaland: An Appraisal" and (iii) facilitated sessions on 'Women's Studies Perspective' in UGC Sponsored Sensitization/Awareness Workshop on 'Capacity Building for Women Managers in Higher education' organised by St. Edmunds College Shillong, on March 6-7, 2009.

Mrs. V. Pakyntein attended: (i) Seminar on 'Nature, Culture and the Tribes of North-East India' organized by the department of Sociology, NEHU on September 3, 2008 and presented a paper titled "Traditional Knowledge of the Khasi-Pnar Society", (ii) seminar on 'Communities of women' organized by Women's Studies Research Centre, Guwahati on January 3-4, 2009 and presented a paper entitled "Women's Empowerment and Gender Equality in Meghalaya", (iii) Conference on 'Towards Gender Equality in India: Reflections on Tribal and Dalit Women' organized by Ethnographic and Folk Culture Society, Lucknow from February 27 to March 1, 2009 and presented a paper entitled "Gender Equality and Human Development in Meghalaya: An Anthropologist Reflections", (iv) chaired the session in a Conference on 'Towards Gender Equality in India: Reflections on Tribal and Dalit Women' organized by Ethnographic and Folk Culture Society, Lucknow, on February 28, 2009, (v) facilitated sessions on 'Managing Personal and Professional Roles and Women and Research' in UGC Sponsored Sensitization/Awareness Workshop on 'Capacity Building for Women Managers in Higher education' organised by St. Edmunds College Shillong, on March 6-7, 2009, and (vi) national seminar on 'Women in Traditional Institutions and Worldviews with Special Reference to North-East India' organized by North-East India Studies Programme (NEISP), School of Social Sciences, Jawaharlal Nehru University, Delhi, Center for Manipur Studies and Centre for the Study of Social Exclusion and Inclusive Policy, Manipur University, Imphal, on March 13-15, 2009 and presented a paper entitled "Gender Roles in Khasi Kinship Structure."

Dr. Geetika Ranjan attended: (i) National Symposium on 'Anthropology' organized by the University of Delhi on December 26-28, 2008 and presented a paper entitled "Meaning of a Tribe for a Tribe", and (ii) National Seminar on 'Feminism' organized by Mahila Vidyalaya P.G. College, Lucknow on February 14, 2009 and presented a paper titled "Women – Victims of Gender Bias: A Case Study."

Publications:

Published in India:

Khongsdier, R. 2008. The Marngars of Meghalaya: A Biological-anthropological perspective. In: Sarthak Sengupta (Ed.), *Tribal Panorama of North East India*, 121-140.

Khongsdier, R. 2009. Physical Anthropology in Northeast India: In Search of Ideal Approaches and Models after Prof. B.M. Das. In: Choudhury, B. and Mahanta, B.J. (Eds.), *The World of Dr. B.M. Das: A Tribute*, Assam Academy for Cultural Relations, Guwahati, 321-353.

Ranjan, G. 2008. From Tribe to Social Integration: Bhoksa Youth and the Challenges in Transformation. *Journal of Social Sciences*, **10**: 53-59.

Subba, T.B., A.C. Nepal Sinha, and D. R. Nepal, 2009. Indian Nepalis: Issues and Perspectives, (Eds). Concept Publishing Company, New Delhi.

Subba, T.B., J. Puthenpurakal, and S.J. Puykennel, 2009. Christianity and Change in Northeast India, (Eds) Concept Publishing Company, New Delhi.

Zehol, L. 2008. Ethnic Tension and Conflicts: North Eastern Experience. In: Fernandes, Walter (Ed.), *Search for Peace with Justice: Issues around Conflict in Northeast India*. North Eastern Social Research Centre, Guwahati, 44-65.

Zehol, L. 2009. Changing Khezha Culture, Christianity and Women: Some Observations. In: Subba, T.B., Puthenpurakal, J. and Puykennel, S.J. (Eds.), *Christianity and Change in Northeast India*. Concept Publishing Company, New Delhi, 331-346.

Published abroad:

Khongsdier, R., R. Chakraborty, K. Bose and S. Bisai, 2009. Body Mass Index and Body Fat among Adult Bengalee Male Slum Dwellers in West Bengal, India. *Obesity Research & Clinical Practice*, **3**: 141.

Subba, T. B. 2008. Review of Vibeke Steffen, Richard Jenkins & Hanne Jessen (eds), *Managing Uncertainty: Ethnographic Studies of Illness, Risk and the Struggle for Control*, Copenhagen: Museum Tusulanum Press. *Journal of the Royal Anthropological Institute* (N.S.), **14**: 450-51.

Subba, T.B. 2008. Matriliney, Reproductive Health, and Reproductive Rights: An Essay on the Khasis of Meghalaya, Northeast India. *European Bulletin of Himalayan Research*, **32**: 50-65.

Subba, T.B. 2008. Living the Nepali Diaspora in India: An Autobiographical Essay. *Zeitschrift fur Ethnologie*, **133**: 213-232.

Research Projects

Ongoing

“Culture, Genetics and Status of Health in Northeast India” under the University

Potential for Excellence (UPE) programme. Principal Investigators: Profs. T.B. Subba and R. Khongsdier. Amount of fund: Rs. 30.0 lakhs.

“Evaluation Study of the Supplementary Nutrition Programme in Selected ICDS Projects of Meghalaya” in collaboration with the Directorate of Social Welfare, Government of Meghalaya. Principal Investigator: Prof. R. Khongsdier. Amount of fund: Rs. 4.0 lakhs.

Honours/Awards/Recognition/Appointments

Professor T.B. Subba was awarded: (i) Nirman Puraskar, 2008 by Nirman Prakashan, Gangtok, Sikkim, (ii) Dr. Panchanan Mitra Memorial Lectureship, 2008 awarded by the Asiatic Society, Kolkata, (iii) DAAD Guest Lectureship at the Free University of Berlin, Germany from April 1 to July 30, 2008. He was also a member of: (i) National Committee of the Indian Council of Social Science Research, New Delhi, on Research Methodology and Training Courses, and (ii) Sectional Committee of the 97th Indian Science Congress for Anthropological and Behavioural Sciences for 2009-2010.

Prof. R. Khongsdier was appointed a member of the Technical Advisory Committee, Biological Div sions, Indian Statistical Institute, Kolkata.

Dr. L. Zehol was a appointed a member of the Expert Committee in the area of Anthropology of Research Funding Council- Major and Minor Research Project, UGC, 2008-2009.

Other Activities

Professor T.B. Subba was the Editor of *The NEHU Journal* and Coordinator of NEHU Extension Lectures during the year. He was the Sectional Secretary, Anthropological and Behavioural Sciences, 96th Indian Science Congress, NEHU, Shillong. He delivered: (i) Colloquium Lecture on “The Colonial Northeast India: Policies and Practices” at the Institute of Ethnology, Munich University, Munich on May 19, 2008, (ii) special Lecture on “The Nepalis in Northeast India” at the National Centre for Scientific Research, Paris on June 23, 2008, (iii) lecture at the Indo-German Friendship Society Meet in Berlin on “Seven Myths about Seven Sisters” on June 01, 2008, (iv) Dr. Panchanan Mitra Award Lecture for 2008 held at the Asiatic Society, Kolkata on August 29, 2008 on the topic entitled “Darjeeling and the Sixth Schedule”, (v) lecture on “Philosophy of Education for Peace” on the International Philosophy Day organised by the department of Philosophy, Assam University, Silchar on November 27, 2008, and (vi) lectures on “Teaching of Social Sciences in Northeast India” and “Problems and Prospects of Social Science

Research in Northeast India” at the department of History, Diphu Campus of Assam University on March 27, 2009.

Prof. Henry Lamin acted as Director of the national workshop on “Rainwater Harvesting, Flood Control & Integrated Water Management in Northeast India” during October 16-17, 2008.

Prof. R. Khongsdier was appointed a member of the Editorial Board of the Journal of Human Biology, New Delhi, and the NEHU Journal. He also served as a member of the Advisory Board of the Anthropologist journal, New Delhi, and a referee for the British Medical Journal, UK.

Dr. L. Zehol organised UGC-Sponsored Workshop on “Capacity Building Sensitization/Awareness/Motivation of Women Managers in Higher Education” at St Edmunds’ college, Shillong, on March 3-7, 2009. She also attended the Second UGC North East Regional Training of Trainers Workshop on Capacity Building of Women Managers in Higher Education organized by Women’s Studies Research Centre, Gauhati University, Assam, during March 30-April 4, 2008.

Drs. D.K. Limbu, J.W. Dkhar and B. T. Langstieh served as Instructors in two workshops on ‘Methods of the Evaluation Study of the Integrated Child Development Scheme (ICDS) in Meghalaya’ organized by the department in collaboration with the Directorate of Social Welfare, Government of Meghalaya on June 13-14, 2008 at NEHU and July 10, 2008 at Tura.

Lecturers Delivered in Refresher Courses

Prof. T.B. Subba delivered: (i) two lectures on “Fieldwork” in the Refresher Course organised by the department of Philosophy, NEHU on September 3 & 5, 2008, (ii) two lectures on “Politics of Indigeneity” in the Refresher Course organised by the department of Political Science, NEHU on October 31, 2008, and (iii) two lectures on “Stateless People in South Asia” in the Refresher Course organised by the department of History, NEHU on November 22 & 24, 2008.

Dr. L. Zehol delivered: (i) two lectures titled “Social Formation in the Northeast - Role of Myth” and “Social Formation in the Northeast - Role of Women” in the Refresher Course in ‘History’ organized by UGC-Academic Staff College at NEHU on November 25-26, 2008, (ii) a lecture titled “Status of Tribal Women in North East with Special Reference to Their Education” in the Refresher Course in Education organized by the UGC-Academic Staff College at NEHU on December 15, 2008, and (iii) a lecture titled “Oral Literature as a Repository of Culture” in the Refresher Course in English organized by UGC-Academic Staff College at NEHU on March 13, 2009.

DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION

Head : Professor S. C. Srivastava
Telephone : 03651-221407 (O), 09436313379 (M)
E-mail : subhash58nehu@yahoo.co.in

Thrust Area of Research : The department mainly concentrates on multi-disciplinary research in the areas of rural development, impact assessment. Micro and decentralized planning, local governance, globalization and food security, marketing of rural products, agronomy, horticulture and animal science.

Brief Statement of Academic Activities: Being multidisciplinary in nature the department undertakes both teaching and research in the areas concerning rural development, agronomy, horticulture and animal science. The department provides both theoretical and practical exposure to M.Sc (RDAP) students in various areas relating to the multidisciplinary P.G. programme within the stipulated time. In addition to this, the department is also involved in doing consultancy research and other projects. The department has also started a Students' Outreach Programme in 2007-08 under which the third semester and fourth semester students assist the local NGOs as resource persons and interact with the villagers on issues pertaining to implementation of developmental programmes. The programme was received well and continued in 2008-09 also under which the students visited nearly five villages to have interactions with the villager.

Faculty :

Professors : S C Srivastava, Ph.D. (Allahabad), Economics
Rakesh Mohan, Ph.D. (BCKU). Agronomy
Readers : L.R. Saha, Ph.D. (RAU), Plant Pathology
S.K.Nanda, Ph.D. (JNU), Sociology
Lecturers : J.P. Jaiswal, M.Sc. (Allahabad), Agricultural Engineering
B.K. Mishra, PH.D.(BHU), Animal Husbandry and Dairying
B. Mathew, Ph.D. (BCKU) Horticulture
Lolly S. Pereira, Ph. D. (BCKU), Horticulture

Student intake: Enrolment capacity : 20

Actual Admission	SC	ST	Gen	Male	Female	From Meghalaya	Outside Meghalaya
M.Sc	-	19	1	7	13	18	2
Ph. D	-	3	1	-	3	3	1

Degrees Awarded: 13

	SC	ST	Gen	Male	Female	Total
M.Sc	-	13	-	9	13	13

Placement of students:

CAPART is a regular recruitment agency for the RDAP students. On an average four students are recruited by them every year. Other than these four, two students got teaching jobs and are teaching environmental science in colleges. Rest of the seven students got their placement in different Non-Governmental Organizations.

Course conducted:

M. Sc. in Rural Development and Agricultural Production

Study Tours/field trips of students :

Study Tour: An academic study tour was organized during 21.01.09 to 02.02.09 to visit Hyderabad, Bangalore and Mysore. The main objective of tour was to visit various agricultural research stations, Agricultural University, NIRD, Manage, CFTRI, NDRI etc. to study the activities and innovation in the field of Agricultural, Horticulture, Animal Husbandry and Rural Development. Dr. B.K. Mishra Teacher In-charge along with 15 numbers of students visited Hyderabad central University, NAARM, University of Agriculture Science Bangalore, NDRI Bangalore, Ramuji Film City Hyderabad, CFTRI Mysore during 21 January 2009 to 02 February 2009. During the visit students studied the latest technologies and activities in the field of Agriculture Horticulture, Animal Husbandry and Rural Development.

Field Trips: Field trips are integral part of the course curriculum of the department and on an average students visit either a village to interact with the beneficiaries of various government programmes or organizations/departments involved in implementation of rural development, horticulture and livestock development programmes. All these visits are assignment oriented and marks are awarded on the basis of the reports prepared by the students. As such all courses in-charge are involved in these visits.

Seminars/conferences/symposia/workshops/extension programmes etc

Attended

Professor Rakesh Mohan : Prof. Rakesh Mohan, attended the workshop on “*Impact of Complementary farming on Socio-Economic Development of Garo Hills*” and presented a paper entitled “*Alternatives to Shifting Cultivation in Garo Hills*” organized by Don Bosco College, Tura in collaboration with ICSSR, NEC, Shillong, from March 20-21, 2009.

Dr L R Saha: Attended the Seminar on “*Impact of Complementary farming on Socio- Economic Development of Garo Hills, with the sub-theme Capacity Building and promotion of Entrepreneurship*” March 20-21, 2009 and presented a paper entitled “*Scope and Opportunities for Food Processing in Garo Hills*” organized by Don Bosco College, Tura, Meghalaya, and ICSSR, NERC, Shillong.

Publications:

Journals:

Malik, V., R. Mohan and M. Kumar, 2009. Effect of *Melia azedarach* L. intercropping on *Sorghun bicolor* (L) Moench varieties in hills of Mizoram. *Agriculture*, 7: 1-4.

Saha, L.R. and B. Mathew. 2008. Observation on some Important Viral Diseases of Crop Plants in Garo Hills of Meghalaya. *Science Vision*, 8: 83-85.

Mishra, B K. 2008. Detection of Staphylococci in Different Types of Milk Sold in West Garo Hills District of Meghalaya. *Bioved*, 19: 155-159.

Saha, L.R. and B. Mathew. 2008. Observation on some Important Viral Diseases of Crop Plants in Garo Hills of Meghalaya. *Science Vision*, 8: 83-85.

Singh, A., R.K. Patel, L.C. De and L.S. Pereira, 2008. Performance of Strawberry Cultivars under Sub-Tropics of Meghalaya. *Indian Journal of Agricultural Sciences*, 78: 575-580.

Book and Book chapters

Srivastava, S. C., Ch Radhika Rani and B K Thaplital. 2008. Agrarian Relations and Rural Poverty in Post Reforms Period: A Study of Bihar and Orissa. National Institute of Rural Development, Hyderabad.

Funds received from agencies other than NEHU:

National Institute of Rural Development, Hyderabad. Rs. 7.35 Lakhs.

Infrastructure facilities: The department established one Bio-informatics Infrastructure Facility (BIF) Lab with ten computers in 2008-09. Besides the department has one Vermi-compost unit, Net House & Poly House, Cow and Heifer shed the department has a fully functional instructional dairy unit and four laboratories for horticulture, agronomy, soil science and animal science were established for giving practical training to M.Sc (RDAP) students. During 2008-09, the dairy unit produced a nearly 35,000 litres of milk and generated revenue of nearly Rs. 4 lakhs.

Research Projects/ Consultancies:

Ongoing:

Village Knowledge Connectivity (Action Research), S C Srivastava, Rs. 25 Lakhs., DRDA, West Garo Hills.

District Planning Under Backward Regions Grant Fund, S C Srivastava, Rs. 2.5 lakhs, National Institute of Rural development, Hyderabad.

New:

Consultancy :

Comprehensive District Agricultural Planning for Garo Hills, S C Srivastava, Rs. 10.5 lakhs; National Institute of Rural development, Hyderabad.

Research Project :

Studies on effect of in situ rain water harvesting techniques on field establishment and growth of Mandarin Orange and Guava saplings in West Garo Hills of Meghalaya; B. Mathew, Rs. 92,800/-; UGC, New Delhi

Academic/ Professional Collaboration: The department has undertaken professional collaboration with NIRD, Regional centre, Guwahati and NIRD, Hyderabad and CAPART& IAMR, New Delhi, ICAR Research Complex for NEH Region, Barapani for practical exposure and also for getting better seed varieties for RDAP farm. The department has also developed networking with the local level NGOs where the third and fourth semester students are acting as resource persons and interacting directly with the villagers

Other activities:

Professor S C Srivastava (i) attended a national workshop on Land Reforms organized jointly by Ministry of Rural Development, Govt. of India and National Institute of Rural Development from 6-7 October, 2008 at NIRD, Hyderabad). (ii) Delivered a lecture on "Planning and Management of Development Projects" on 7th August 2008

to the participants of International Training Programme Organized CIRDAP and NIRD at Guwahati. (iii) Participated as resource person in a three day training (11th to 13th June) at NIRD, NERC on Comprehensive district agriculture planning (C-DAP).

DEPARTMENT OF GEOGRAPHY

Head : Professor D. K.Nayak (upto 4.1.09)
Professor A.C. Mohapatra (from 5.1. 2009)
Telephone : 2723201, 2723202 (O)
E-mail : acmohapatra@nehu.ac.in

Thrust Area of Research: (i) Geomorphology with focus on Regional and Applied geomorphology, (ii) Environmental studies with focus on Climatology & Climate change, Water Resources and Hydrology, Bio-geography and Bio-diversity and Watershed Management studies. (iii) Regional Development and Regional planning, (iv) Researches on Social and Cultural Diversity of the North-Eastern Region with a special focus on Tribal Development, (v) GIS and Remote Sensing applications in Environment and Land Use Planning.

Brief Statement of Academic Activities: As many as fifteen candidates from the Department qualified in the UGC NET under Lectureship category. The department, apart from its usual teaching programme, organized a series of lectures delivered by very eminent geographers drawn from various universities in the country. The collaborative research programme with the Polish Academy of Sciences on 'Run off, Rainfall and Soil Loss in Cherrapunji Area, Meghalaya Plateau' was completed in this year with the exchange of scientists between the two departments. The department organized National level Seminars and a few workshops during the year. The faculty remained active in publication of books and research papers in a number of refereed national journals as well as under book chapters. Most faculty members attended and presented research papers in national and international conferences. As many as 3 research scholars were awarded Ph.D degree. One of the senior technical assistants was sponsored by the Department to undertake advanced training in application of GIS and Remote Sensing. The Department received an additional grant of Rs. 20 Lakhs from UGC under Special Assistance Programme to strengthen infrastructure facilities.

Faculty :

- Professors : A.C. Mohapatra, M.A./MPhil (JNU), Ph.D (NEHU)
Surenbra Singh, M.A. /Ph.D (Meerut)
B.S. Mipun, MA (JNU) Ph.D (NEHU)
D.K. Nayak, M.A. MPhil./Ph.D (JNU)
Z.H. Qureshi, M.A./Ph.D (Sukhadia University)
- Readers : H.J. Syiemlieh, M.A./MPhil(NEHU) Ph.D (NEHU)
L. Cajee, Msc./ Ph.D (NEHU)
- Lecturers : N.K. Sinha (SG), M.A. (Gauhati) Ph.D (NEHU)
P.G. Momin (SG), M.A (JNU), M.Phil (NEHU)
P.K. Ryngnga (S), M.A (NEHU), M.Phil, Ph.D. (JNU)
S. Purkayastha, M.A/Ph.D (NEHU)

Visiting Professors/Fellows/Scholars:

The following Professors visited the department and delivered a series of lectures:

Prof K.R. Dikshit delivered a lecture on "Early Migration in Northeast India" on 29th April, 2008. Professor S. K. Agarwal, Department of Geography, Delhi University, Delhi delivered a lecture on "Urban Settlement Dynamics in Context to New driving forces" on 16th May 2008 and on "Understanding and Mapping Vulnerability" on 19th May 2008. Dr. Sachidanand Sinha, Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi delivered a lecture on "Social Differentiation and Spatial Differentiation" on 2nd June, 2008 and on "What Geographers Can Do" on 4th June, 2008.

Prof. Aslam Mahmood, CSRD, JNU, New Delhi, delivered a series of lectures during October 23-25, 2008 on topics "Migration Analysis, Urbanisation and Demographic Analysis". Prof. H. Ramachandran, Dept of Geography, Delhi University, Delhi, delivered a lecture on "Population and Carrying Capacity" on Dec 4, 2008. Prof. B. S. Butola, CSRD, JNU, New Delhi, delivered a lecture on "Political Economy of Development of North-East" on December 4, 2008. Prof. Gerhard Bahrenberg from University of Bremen, Germany delivered a lecture on "Issues in Defining Region: German Experiences" on March 3, 2009. Prof. C.R.Pathak, Visiting Professor, SPA, New Delhi, delivered a series of lectures during March 15-20, 2009 on "Concept of Integrated Area Planning, Growth Centre Strategy, Indian Planning Experiences", "Spatial efficiency and Planning Pattern" and a General Lecture on "Urbanisation in India Mega-city Issue". Prof. Sudesh Nangia, retired Professor, CSRD, JNU, New Delhi

delivered a series of lectures during March 24-30, 2009 on topics such as "Concept of Population Analysis", "Population Growth in India", "Fertility issues in 2001 Census and Gender and Geography"

Student Intake:

Enrolment capacity: MA./MSc.- 36; Ph.D.: Variable, as per vacancy

Actual Admission:	SC	ST	Gen	Male	Female	From	Outside
						Meghalaya	Meghalaya
M.A./M.Sc.	1	34	1	19	17	20	16
Ph.D	1	14	8	11	12	6	17

Degrees Awarded:

	SC	ST	Gen	Male	Female	Total
M.A/M.Sc.	0	27	5	21	11	32
Ph.D.	0	0	3	3	0	3

Ph.D.

Surajit Barman "Fluv o-Morphological Impact of Pagladia-Morapagladia Rivers on Rural Settlements" Supervisor: Dr. H.J. Syiemlieh

Prakash Sarma "Ecological Basis of the Economy of Periodic Markets in Barpeta District, Assam" Supervisor: Prof. A. C. Mohapatra

Pranab J. Sarma "River Bank Erosion and its Impact on Dwellers of Brahmaputra Valley in Morigaon District of Assam" Supervisor: Prof. B.S. Mipun

Placement of Students: The students of the Department in this year joined various teaching and administrative ' positions available within the region.

Courses conducted: The following courses were conducted for M.A. /M.Sc. students:

Semester-I: Geomorphology, Climatology, Economic Geography, Geographical Thought-I, Quantitative Techniques in Geography-I, Cartography-I (Practical).

Semester- II: Economic Geography, Quantitative Techniques in Geography, Ecology and Biogeography, History of Geographical Thought, Fieldwork.

Semester-III: Regional Planning and Development, Population and Settlement Geography, Regional Geography of a Meso Region of the World/India, Social and Cultural Geography, Remote Sensing and GIS.

Semester-IV: Environmental Geography, Advanced Geomorphology, Biogeography, Applied Climatology, Hydrology, Integrated Area Planning, Agricultural Geography, Social Geography, Cultural Geography and Project.

The following courses were conducted by the Department for Ph.D. students:

Methodology and Research Methods in Geography, Evolution of Landforms, Drainage Basin and Water Resources, Geography of Settlements and its Application in Integrated Area Development, Population and Development, Advanced Agricultural Geography.

Study Tours/Field Trips of Students:

Prof. B. S. Mipun and Prof. D. K. Nayak took the first semester students to an all India study tour (6th to 23rd February 2009) to various places in Malabar and Coromandal Coasts for the study of coastal environment.

Seminars/Conferences/Symposia/Extension Programme etc.:

Organised:

Refresher Course on *Environment and Society: Issues in Geography*, 22nd July- 12th August, 2008.

5 day Training Programme on “ERDAS Imagine, Leica Photogrammetry Suite and ArcGIS for Geographers & Geo-scientists” 24-28 November, 2008, Department of Geography, NEHU, Shillong

DST, Gol Conference of PAC-Earth Sciences March 30-31, 2009 at NEHU, Shillong.

Attended:

Prof. A.C. Mohapatra attended (i) 96th Indian Science Congress, NEHU, Shillong Jan 3-7, 2009 and coordinated Plenary Lecture on Climate Change and Indian response, (ii) contributed a paper entitled, “City Size and Growth in North-East India” to National Seminar on Urban Problems and Strategies for Development with Special Reference to Manipur, Manipur University, Imphal 29-30 December, 2008 (Proc.).

Prof B.S.Mipun attended (i) the 31st International Geographical Union Congress, Tunis, Tunisia, from 12th to 15th August, 2008, presented a paper on “Small Scale Tea Cultivation and Landuse Change in Assam, India” (ii) National Seminar on Nature, Culture and Tribe of the North East India, NEHU on 2nd Sept. 2008, presented a paper on “Utilisation of Forest Resources for a Sustainable Livelihood by the Ao Nagas: A Case Study of Longkhum Village, I Jagaland” and chaired a session (iii)

National Seminar on Social Change in North-East India: Process and Response, NEHU, Shillong, 25th -26th November, 2008, presented a paper on "Forced Migration and Social Adjustment among the Mizos in Mizoram".

Prof. D.K. Nayak attended (i) Workshop on Disaster Preparedness in Meghalaya, Ladykeane College, Shillong 10-11 June, 2008, presented a paper on "*Examining Disaster through Vulnerability Lens*" (ii) 31st International Geography Congress and International Conference on Building Together Our Territories, Tunis, Tunisia, 12-15 August, 2008, presented a paper "Trends and Patterns in Ageing in Tribal Areas of the North-Eastern Region of India" (iii) National Seminar on Ageing in India with Special Reference to North-East India, Indian Council of Social Science Research-North-Eastern Regional Centre, North-Eastern Hill University Campus, Shillong, 1-2 October, 2008, presented a paper on "Ageing in the North-East with Special Reference to the Tribal Areas: A Geographical Perspective". (iv) National Seminar on Social Change in North-East India: Processes and Responses, Department of Sociology, North-Eastern Hill University, Shillong, 25-26th November, 2008, presented a paper on "Demographic Change and Ageing in the North-East: Issues and Challenges". (v) 21st Indian Institute of Geomorphologists (IGI) Conference and National Seminar on Geomorphic Hazards: Issues and Challenges, Tripura University, Agartala, 28-30 November, 2008, presented a paper on "Gender Perspectives in Environmental Management and Mitigation of Natural Disasters: The Case of Climate Change" and chaired a session on 'Anthropogenic Influence on Natural Hazards'. (vi) UGC National Seminar on Postmodernism in Geography, Nowgong Girls College, Dec. 13, 2008, presented a paper on "Postmodernism and Geography". (vii) National Seminar on Urban Problems and Strategies for Development with Special Reference to Manipur, Manipur University, 29-30 December, 2008, presented a paper on "The Myth of Rural Urban Divide: Revisiting the Concept of Urban in a Globalised World" and chaired the second session on 29.12.08. (viii) 96th Indian Science Congress, North-Eastern Hill University, Shillong, 3rd-7th January 2009, presented a poster (with K.C. Lalmalsawmzauva) on "Influence of Geographical Factors on the Use of Antenatal Care in Champhai District, Mizoram".

Prof. Z.H. Qureshi attended (i) National seminar on Issues of Energy, Energy Security and Alternative Energy in Northeast India, NEICSSR, Shillong, 5th and 6th June, 2008, presented a paper on "Geomorphic sites for development of wind, solar and geothermal energy in Northeast India" (ii) National Workshop on Water Harvesting and Water Resource Management, Department of Anthropology, NEHU, Shillong, September 2008, presented a paper on "Integrated Water Management" (iii) 21st

Indian Geomorphologists' Conference and National Seminar on Geomorphic Hazards: Issues and Challenges, Department of Geography and Disaster Management, Agartala University, Agartala, 28 - 30 November 2009, presented (jointly with C. Lalnunkima) a paper on "Geomorphic Hazards in and around Aizawl" (iv) National seminar on Post- Modernism in Geography, Department of Geography, Nowgong Girls' College, Nagaon 13th December 2008, presented a paper on "Post-Modernism in Geomorphology".

Dr. L. Cajee attended (i) International Workshop on Water Culture: South Bohemia, Upper Rhine and Seto Island Sea Region in Japan, Kagawa University, 5-7 Nov, 2008 Takamatsu, Japan, presented a paper on "Prospects on Indian Tourism". (ii) International Meeting on Climate Change in South Asia, Kyoto University on 14th Nov, 2008 Kyoto, Japan and presented a paper (Joint) on "Weather Variability and Rainfall Pattern of 'Sidr' Post - Monsoon Cyclonic Storm of 15th November 2007 in the Meghalaya Plateau, India".

Dr. P. K. Ryngha, attended National seminar on Extremism in North East India, North East India Council for Social Science Research, 6-7 March 2009, presented a paper entitled "India's North East: Political Instability, Conflict, and Regional Disparities".

Ms. Mayuri Das, Research Scholar attended International 31st International Geography Congress and Conference on Building Together Our Territories, Tunis, Tunisia, 12-15 August, 2008, presented a paper "An Assessment of the extent of Redistribution of Population in Majuli Island due to river bank erosion".

Mr. K.C. Lalmalsawmzauva, Research Scholar attended National Seminar on Human Security in Northeast India: Problems, Responses and Strategies, Government Zawlnuam College, Zawlnuam, Mizoram, 30-31 March, 2009, presented a paper "Development for Reproductive Health security in Mizoram".

Publications:

Published in India

Bendanginla and S. Singh. 2007. Changing Pattern of Educational Facilities in Dimapur, Nagaland. *Geographica! Review of India*, 69: 371-383 (published in 2008).

K.C. Lalmalsawmzauva and D.K. Nayak. 2009. Influence of Geographical Factors on the use of Antenatal Care in Champhai District, Mizoram. *Transactions of the Institute of Indian Geographers* 31: 57-67.

Kumar, Y., H. J. Syiemlieh and S. Singh. 2008. Vegetation Cover and Plant Species of Degraded Landscape in the Extremely Wet Cherrapunji Area, North Eastern India. *Transactions, Institute of Indian Geographers*, 30: 111-124.

Mohapatra, A.C. 2007. Review of Colonial and Post-Colonial Geographies of India Saraswati Raju, M. Satish Kumar and Stuart Corbridge (ed), New Delhi: Sage. *The Indian Geographical Journal*, 82.

Qureshi Z. H. 2008. Geosystem Concept in Natural Resource Management. *Geographical Aspects*, 9: 9-12.

Published Abroad

Ryngnga, P. K. 2008 Ecotourism Prioritization: A Geographic Information System Approach *South Asian Journal of Tourism and Heritage*. 1: 49-56.

Book/Book Chapter Publication

Book

Nayak, D. K. 2008. (ed.) A Country Report: Progress in Indian Geography. Indian National Science Academy, New Delhi

Ryngnga, P.K. 2009. Ka Kot Jingtíp shaphang ka Astronomi (Na ka bynta ki khynnah skul) (Fundamentals of Astronomy for School Children), Ri Lum Press, Shillong,

Book Chapters

Gogoi, K. K, and S. Singh. 2008. Marketable Surplus in Subsistence Agriculture and Rural Development: A Case Study of Jorhat District, Assam In: Abaha Laxmi Singh and Shahab Fazal (eds): *Rural Environmental Management*, B. R. Publishing Corporation, Delhi, pp 170-196.

Mohapatra, A.C and Nabanita Kanungo. 2008. Regional Development and Planning. In: Nayak, D.K (ed.), *Progress in Indian Geography, 2004-2008* Indian National Science Academy New Delhi: INSA, pp 51-56.

Nayak, D. K. 2008. Social Geography. In: Nayak, D. K. (ed.), *Progress In Indian Geography, 2004-2008* Indian National Science Academy, New Delhi pp 66-69.

Singh, S. S. 2008. Settlement Geography. In: Nayak, D. K. (ed) *Progress in Indian Geography, 2004-2008*, Indian National Science Academy, New Delhi, pp 44-45.

Fund received from agencies other than NEHU:

UGC (SAP) DRS Programme : Rs. 3.5 Lakh

UGC (SAP) Special Infrastructure Grant : Rs. 20 Lakh

Infrastructure Facilities :

ArcGIS Master Lab Kit 8.4 Software-3 licenses, ERDAS Imagine 8.1 DIP Software-5 licenses, ENVI- 10 licenses, SPSS-5 licenses, A0 Colour plotter-1, Leica GPS56+ -1, Megallan HH GPS-1, 5 Mega pixel Digital Camera-1, A0 scanner, GARMIN 12 XL GPS.

Research Projects:

Ongoing:

Valuation of Community Natural Resources and Livelihood Systems. Prof. A.C. Mohapatra(PI), Prof. B.S.Mipun, Prof. D.K. Nayak, Dr. L.Cajee and Ms. P.K. Rynngga. Rs. 39.20 Lakhs, UGC (*under UPE*).

Landslide Mapping/Erosional Aspects, Vulnerability and Risk Assessment of Shillong Urban Area with Special Reference to Umshing Micro Watershed. Prof. B.S.Mipun,(PI) Rs. 7.31 Lakhs, DST, New Delhi

Development of Data on Rainfall, Runoff and Soilloss Estimating SDSS for Extremely Humid Areas of the Central Meghalaya Plateau, S. Singh(PI) , H.J.Syiemlieh (Co-PI), 27.64 Lakhs, DST, New Delhi.

Studies on Health Status and Demographic Pattern of Population around Domiasat Area, West Khasi Hills, Meghalaya, B.Kharbuli (PI) **D.K.Nayak (Co-PI)** and **B.S.Mipun (Co-PI)** Rs. 54,49,600/-, BRNS, Mumbai, Identification Strategy for Mapping of S & T Needs in Meghalaya, Government of Meghalaya, Dr. H.J. Syiemlieh (Co-PI)

Completed

Bilateral Indo- Polish Collaborative Research Program of DST (New Delhi) and KBN (Warsawa, Poland) to investigate eco-restoration problems under the Project entitled 'Rainfall, Runoff and Soil Loss in Cherrapunji Area, Meghalaya Plateau' (III Phase).

Preparation of Maps/digital data under NRC-LULC-50K, B.S.Mipun (PI), Rs. 2,21,000/-NESAC, Shillong

Growth of Informal Sector and its repercussion: A case study of Shillong, PK Rynngga (PI) Rs. 10,000 SAP (DRS-II)

Academic/Professional Collaboration

Collaborative Research with NESAC under MoU for Preparation of Maps/digital data under NRC-LULC-50K

Any other activities:

Prof. A.C. Mohapatra organised DST, Gol Conference of PAC-Earth Sciences March 30-31, 2009 at NEHU, Shillong.

Prof Surendra Singh (i) Delivered lecture on Biophysical Attributes and Prediction of Rice yield, International Conference, Department of Geography, Guwahati University, Guwahati, 17-19 December 2008 (ii) attended INTROMAT-2009, International Conference on Agricultural Meteorology, Indian Meteorological Department, Lodi Road, New Delhi 23-25th February 2009.

Prof. B.S.Mipun (i) attended a workshop/Training on "Pilot Testing of Module on Career Counseling for Youth Functionaries" at Rajib Gandhi National Institute of Youth Development, Sriperumbudur, 7-9th July, 2008. (ii) Convenor, 5 day Training Programme on "ERDAS Imagine, Leica Photogrammetry Suite and ArcGIS for Geographers & Geo-scientists" 24th- 28th November, 2008, Department of Geography, NEHU, Shillong (c) Convenor, ICPR, New Delhi and IAS, Shimla joint National Workshop on National Integration and Identity-Violence, NEHU, March 20-23, 2009. (d) Convenor, Food Committee, 96th Indian Science Congress, NEHU Jan 3rd -7th, 2009.

Prof. D.K. Nayak (i) attended workshop on Cartographic Challenges in the North-East Region, Indian National Cartographic Association, Shillong, Meghalaya, 1st May, 2008. (ii) delivered a series of lectures as Visiting Professor to Department of Geography, Tripura University, Agartala from 5th April-12th April 2008. (iii) delivered two lectures on "Planet Earth" in WWF sponsored "Environmental Orientation Programme" at Army school, Shillong on 21st and 22nd May, 2008. (iv) Resource Person, training Programme on Basic Disaster Management Concept for nodal officers of line department of East Khasi Hills, west Khasi Hills and Jaintia Hills at MATI Shillong, 23-27th June, 2008 and delivered a lecture on "Earthquake: Causes, mitigation measures and Do's and Don'ts (v) Visiting Professor on UGC Exchange Programme to the Department of Geography, M.S.U. Vododara from 6th-14th January, 2009. (vi) Convenor, Registration Committee, 96th Indian Science Congress, North-Eastern Hill University, Shillong, 3rd-7th January 2009.

Prof. Z.H. Qureshi (i) acted as Convenor, National seminar on 'Issues of Energy, Energy Security and Alternative Energy in Northeast India'. Shillong 5th - 6th June, 2008 (ii) visited Natural Resource Study Centre, Dhaka from 25th to 28th January 2009 as an expert on Early Warning System for Flash Floods in Haor Region of Bangladesh.

Dr. L. Cajee (i) attended a training programme on Installation of AWS (Automatic Weather Station) and raw data conversion training, at Kochi University from 10 to 12 August, 2008. (ii) Member of the Committee on collaboration with Japanese scientists from Disaster Prevention Research Institute, Kyoto University on 'Climate Change in South Asia'. (iii) Course coordinator UGC Refresher Course on *Environment and Society: Issues in Geography*, 22nd July- 12th August, 2008.

Dr. H.J. Syiemlieh, Member of the Committee on collaboration with Japanese scientists from Disaster Prevention Research Institute, Kyoto University on 'Climate Change in South Asia'.

Dr. P.K.Ryngnga (i) acted as a Resource Person in a Workshop on Forest Management to the State Government official on 26th May 2008. (ii) Attended a Short Course on Modern trends for Land Information Management System on April 28-30 2008 at Survey of India, Shillong. (iii) Participated in Workshop on Cartographic Challenges in the North Eastern Region on 1st May 2008, at Survey of India, Shillong organized by Indian National Cartographic Association.

Dr. Subrata Purkayastha participated in the shared 'Learning Dialogue and Future Strategies' People's learning centre, Shillong and Arghyam, 9-10 March, 2009.

Mr. Danny M. Synnah, STA, (i) attended DST Sponsored Advanced Training Programme on Application of Geomatics in Urban Transportation Planning and Management, Department of Civil Engineering, St. Peter's University, Chennai, 13th October-1st November, 2008 (ii) Training Programme on "ERDAS Imagine, Leica Photogrammetry Suite and ArcGIS for Geographers & Geo-scientists" 24-28 November, 2008, Department of Geography, NEHU, Shillong.

Mr. K.C. Lalmalsawmzauva, Research Scholar attended the ISI sponsored workshop on Statistical Methods in Medical and Health Sciences, Department of Statistics, NEHU, Shillong, 19-21 February, 2009.

CENTRE FOR ENVIRONMENTAL STUDIES

Head : Professor O.P. Singh
Telephone : 0364-2721159, 0364-2550009
Email : opsinghnehu@rediffmail.com

Thrust area of research in the Centre: Biodiversity Conservation, Forest Management, Environmental Monitoring, Environmental Impact Assessment, Integrated Pest Management, Geophysical study of NE Region, Policy Oriented Research on Forest and Environment and Watershed Management.

Brief statement of academic activities: The 2008-2009 proved to be a mile stone year for the Centre when M. Sc. (Environmental Science) programme was started with existing faculty and resources. Besides faculty of the Centre undertook several research projects aimed at creating much-needed database for promoting ecologically sound development of the hill regions of northeast India supported by various national and international agencies such as Centre for International Forestry Research (CIFOR) Indonesia, National Environment Research Council (NERC), United Kingdom, Ministry of Statistics and Programme Implementation, New Delhi and Department of Atomic Energy (DAE), GOI, New Delhi, University Grants Commission (UGC), New Delhi. This year the Centre received more than Rs. 48 lakhs grants from various external funding agencies that were used to support research students, strengthen ongoing research and extension activities and development of laboratory and other infrastructure.

Faculty:

Professors : B.K. Tiwari, M. Sc. (Gorakhpur), Ph.D. (NEHU)
L.K. Jha, M. Sc. (Bhagalpur University), Ph.D. (LNMU),
Dip. Forestry (F.R.I., Dehru Dun)
O.P. Singh, M. Sc., Ph.D. (BHU)

Reader : D. Walia, M. Tech. (Sagar), Ph.D. (Gauhati)
D. Paul, M. Sc., Ph.D. (NEHU)

Lecturers : S.S. Chaturvedi, M. Sc. (Gorakhpur), Ph.D. (BHU)

Student intake:

Enrolment capacity: M. Sc. = 15

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Actual admission	SC	ST	Gen	Male	Female	From Meghalaya	From Outside
M.Sc.	-	13	3	9	7	15	1
Ph. D.	-	3	-	2	1	2	1

Ph.D:

Ms. Bondita Goswami, "Remediation for Rice Cultivation on Soil Affected by Coal Mining in Jaintia Hills, Meghalaya", Dr. O.P. Singh.

Courses conducted:

- Environment, Ecology and Ecosystem Dynamics
- Plantation Forestry for Environmental Conservation
- Environmental Pollution
- Environmental Microbiology, Biotechnology and Toxicology
- Environmental Impact Assessment and Environmental Policies
- Remote Sensing and Geographical Information System (open course)
- Environmental Law (open course)
- Environmental Geoscience and Energy
- Research Methods, Techniques and Statistical Analysis
- Disaster Management (open course)
- Environmental Issues and Problems of North East India (open course)
- Environmental Economics and Sociology
- Forest Management and Biodiversity Conservation

Study tours/field trips of students: The students of M. Sc. were taken to Denthlang on 17.11.2008 to study the use of GPS and other related studies. On 27.11.2008 they were taken to the Solid Waste Disposal Site, to show processes involved in the disposal and recycling of solid wastes generated from the Shillong city and adjoining areas.

Seminars/Conferences/Symposia/Workshops/Extension Programmes etc:

Organized:

The Center organized a 5 days Training Programme on "Environmental

Accounting with special reference to Environmental Impact Assessment” during May 26-30, 2008 at NEHU, Shillong for the Indian Statistical Service Probationers sponsored by CSO, Ministry of Statistics and Programme Implementation, New Delhi. Prof. O. P. Singh acted as Programme Director. The Centre in collaboration with National Council of Teachers Education and Centre for Environmental education, organized a three day workshop entitled “Environmental education in teacher education resource books dissemination and Orientation on 11-13 February 2009 at seminar Complex cum Guest House, NEHU, Shillong. Prof. B.K. Tiwari organised National Symposium on Traditional Knowledge in collaboration with WIPO, Kolkatta on 7th August, 2008

Attended:

Prof. B. K. Tiwari presented paper entitled” JFM in north eastern India” at the National Workshop on Beyond JFM: Rethinking the Forest Question in India, Organized by CISED, Ford Foundation and Winrock International, India at Gurgoan, 29-30 September, 2008. Chaired Biology Session at the National Workshop on Review of Environmental Science Curriculum at M. Sc. level held at JNU, New Delhi on 27-28 February, 2009. Prof. Tiwari presented a paper entitled” Environmental education in current perspective at NCTE-CEE” in Workshop on Environmental Education in Teacher Education Resource Books Dissemination and Orientation held at Shillong on 11-13 February, 2009. Presented paper entitled” Interdependencies of upland and low land village communities for forest products and water flow in Meghalaya, India at the International Symposium on Interdependencies Between Upland and Lowland Agriculture and Resource Management held at Hohenheim University, Stuttgart, Gemany on 1-4 April, 2008. He also presented paper entitled “Traditional knowledge based natural resource management in north-east India at national symposium on Knowledge Systems for Ecosystem Management and Sustainable Development held at New Delhi on 26-27 August, 2008 organized by National Institute of Ecology, New Delhi. Delivered key note address on the theme of the seminar on Nature-Culture and Tribes of north-east India held at Shillong on 2nd September 2008, organized by Department of Sociology, NEHU, Shillong. Chaired a session at the workshop on Shared Learning Dialogue on the Uiam Lake Conservation: Stake holder dialogue and future strategies. Organised by PLC and Araghyam at Shillong on 9-10 March, 2009, Chaired a session on Alternative Energies in the National seminar on Issues of Energy, Energy Security and Alternative Energies in North-east India held in Shillong on 5-6 June, 2008.

Dr. O. P. Singh delivered lecture on “Climate change and its implications” on the occasion of celebration of Earth Day at BSNL Hqs. Shillong on 20th April 2008.

Delivered invited lecture on "Climate change: Added Threat to Environmental Sustainability" on June 5, 2008 in a workshop organized by NEEPCO, Shillong on the occasion of World Environmental Day 2008. He also delivered a lecture on "Environmental Auditing and Sustainable Development in Special Course on Environmental Auditing" organized by Regional Training Institute, Indian Audit & Accounts Department, Shillong on 23.3.2009.

Dr. D. Walia Co- chaired the session in the International Geohazard Research Symposium, 9-11 March 2009 Istanbul, Turkey and presented papers entitled "Seismotectonic zones demarcation in the Shillong Plateau using the microearthquakes and radon emanation and "Hydrological behavior of Umshing river, east Khasi Hills, Meghalaya". He Presented 03 papers in the 96th Indian Science Congress, January 3-7, 2009, in Earth System Sciences Section entitled "Soil erosion modeling and hazard prediction using the Fuzzylogic", "Radon as an indicator for seismotectonic activities in Meghalaya", "Study on geomorphology and soil of Resubelpara area of East Garo Hills, Meghalaya" and "Gamma radiation around Nongtnger village, W. Khasi Hills district, Meghalaya". Delivered lecture on "Earthquake hazards- Risks and mitigation" in the training on "Disaster Risk Management to the M.L.A's and M.P.'s of Meghalaya" on 18th November 2008. Delivered invited talk on "Seismic hazard: Modalities and strategies", in Earth System Sciences Section of 96th Indian Science Congress on 5th January 2009 and "Seismic disaster management and mitigation", was delivered during the special Symposium on "Regional Issues in Science and Technology Sector for the North East Region" during 96th Indian Science Congress on 7th January 2009. Dr. Walia was Sectional Secretary, Earth System Sciences Section, 96th Indian Science Congress and has been elected as a Member of the Sectional Committee for 2009-2010 (97th Indian Science Congress).

Dr. S. S. Chaturvedi attended "Workshop on Development and optimization of combined plant/microbe technologies for bioremediation of soil contaminated with hydrocarbons and heavy metals" organized by Institute of Advanced Study in Science and Technology, Guwahati, Sept. 29 to 1 Oct., 2008.

Publications:

National Journal

Tynsong, H. and B.K. Tiwari. 2008. Traditional knowledge associated with fish harvesting practices of War Khasi community of Meghalaya. *Indian Journal of Traditional Knowledge*, 7: 618-623.

Jha L.K. & R. Lalengmawia. 2008. Orchids: A Review. *Indian Journal Tropical Biodiversity*, 16: 100-118

Lalnuntluanga, L.K. Jha and Lalramlinglova. 2008. Notes on cane (Rattan) of genus *calamus* in Mizoram (India). *Indian Journal of Tropical Biodiversity*, 16: 167-178.

Lalengmawia, R., L.K. Jha and D. Paul. 2008. Impact of different light intensities and moisture levels on growth performance of some orchids. *Indian Journal of Tropical Biodiversity*, 16: 83-92.

Goswami, B., O.P. Singh, K.K. Satapathy and U.S. Saikia. 2008. Response of upland Rice varieties to application of lime and farm yard manure in coal mine affected soils of Jaintia Hills district, Meghalaya. *Environmental & Ecology*, 26: 1735-1738.

Goswami, B., O.P. Singh, K.K. Satapathy and U.S. Saikia. 2008. Rainfall analysis in Relation to Rice crop for Jaintia Hills District, Meghalaya. *Journal of Agrometeorology*, 10: 188-192

Goswami, B., O.P. Singh, K.K. Satapathy and U.S. Saikia. 2008. Effect of Acidic Coal Mine Drainage on soil fertility status of Rice soils of Jaintia Hills District, Meghalaya. *Journal Assam Science Society*, 48: 8-10

International Journal

Laha R.C. and L.K. Jha. 2008. Study on felling height and felling intensity to manage clump forming (*Dendrocalamns longispathus* and *Dendrocalamns hamiltonii*) and non-clump forming (*Melocanna baccifera*) bamboo species on sustainable basis in north eastern India. *Bamboo Journal*, Japan, 25: 47-54.

Laha R.C. and L.K. Jha. 2008. Study on felling intensities to manage the bamboo resources on sustainable basis in north eastern India. *Bamboo Journal*, Japan, 25: 56-63

Book/ Book Chapters

Tiwari, B.K. and C. Kumar. 2008. Forest products of Meghalaya- Present status and future prospective. Regional Centre, National Afforestation and Eco-development Board. North-Eastern Hill University, Shillong,

Darlong, V., S.K. Barik, B.K. Tiwari, C. Kumar and S. Phanbuh, (Eds). 2008. Livelihoods from Forestry in Northeast India. ISBN-97881904940-69, Cognet-Bhabani, Guwahati & NERCORMP, Shillong, pp 98.

Darlong, V., A. Jamir, S.K. Barik, B.K. Tiwari, D. Choudhury and V. Nakro. 2008. Harmonising jhum in Northeast India with PGS Organic Students. ISBN 8187437-03-0. NERCORMP and RCNAEB, Shillong, pp 43.

Tiwari B.K., H. Tynsong and M. B. Lynser. 2008. Forest management practices of the tribal people of Meghalaya, North-East India. In: J. Ohm A. Parrota, Piu Jinlong, Sim Heok-Choh (eds.) *Sustainable Forest Management and Poverty alleviation: Roles of Traditional Forest-related Knowledge*, IUFRO World Series, 21: 183-184

Devesh Walia, B.S. Mipun, Th. Dolendro and Kalyanjit Sharma. 2009. Morphometric Studies of Upper Umshing River Basin, East Khasi Hills, Meghalaya. *Earth System Sciences*, 2: 382-392.

Paul, D. and S. Dey. 2009. Nutrient content of sexual and worker castes of the subterranean termite *Reticulitermes sp.* In: Proceedings 96th Indian Science Congress, Shillong, pp 27-28.

Funds received from agencies other than NEHU

Department of Atomic Energy, New Delhi	-	Rs. 27.57 Lakhs
University Grants Commission, New Delhi	-	Rs 5.17 Lakhs
National Environment Research Council, United Kingdom	-	Rs. 16.00 Lakhs

Infrastructure facilitates:

Digital Sound Level Meter, Global Positioning System Instrument, Computer Laboratory was added to the existing facilities of the Centre.

Research projects:

Ongoing:

Age, Sr –Nd and paleomagnetic Studies on alkaline complexes from Assam and Meghalaya, North Eastern India, Department of Science & Technology, New Delhi. Principal Investigator Dr. D. Walia. Rs. 12.18 Lakhs.

Structural Mapping of the area around South of Tailing pond site, Domiasiat. PI. Dr. D. Walia Co PI. Dr. A. Saxena. DAE-BRNS - Revised to Rs 10.32 Lakhs.

Hydrogeological studies of the proposed uranium mining tailings dam site at Domiasiat. Principal Investigator Dr. D. Walia. Co PI Dr. Dr. A. Saxena. DAE- BRNS- Revised to 45.93 Lakhs.

Study of Forest, Soil and Water Resources and their Utilization and Mangement by Tribal Societies of NE India sponsored by University Grants Commission, New Delhi under Area Studies of University with Potential for Excellence Programme to NEHU, Shillong (Principal Investigator- Dr. O. P. Singh Co Principal Investigator- Devesh Walia and S. S. Chaturvedi). Rs 40.00 Lakhs

New

Baseline data of Domiasiat ecosystem due to natural radiation dose Sponsored by Board of Research in Nuclear Sciences (BNRS), DAE, Mumbai, Principal Investigator Dr. S.S. Chaturvedi, Total grant: Rs. 38, 55,800.

“Remediation of Soil Affected by Coal Mining in Jaintia Hills, Meghalaya” sponsored by UGC, New Delhi. Principal Investigator: Prof. O.P. Singh. Total grant: Rs.8,81,800/-.

Strengthening Capacity to alleviate Poverty through Ecosystem Services (SCAPES) funded by National Environment Research Council, United Kingdom. Total funding: 20,500 GBP. Principal Investigator: Professor B.K. Tiwari.

Completed

Environmental Accounting of Natural Resources of Meghalaya. Phase-I Forest and Land Resources. Principal Investigator: Dr. O. P. Singh. Sponsored by Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi.

Forest Poverty Interactions in Rural Meghalaya. Centre for International Forestry Research (CIFOR) Indonesia. 10,000US\$. Principal Investigator: B.K. Tiwari

Forest Products and Market Development in Meghalaya Centre for international Forestry Research (CIFOR) Indonesia. 20,000 US\$. Principal Investigation B.K. Tiwari

Geophysical Studies of NE Region Using Magnetotelluric Technique. Principal Investigator: Dr. Devesh Walia. Sponsored by Department of Science & Technology, Govt. of India, New Delhi.

Honours/Awards/Recognition:

Professor B.K. Tiwari has been nominated as a member of International Consortium established by the National Environment Research Council, UK to work on the project “Strengthening Capacity to Alleviate Poverty through Ecosystem Services (SCAPES).

Professor O. P. Singh has been nominated as a member of the “Environmental Advisory Group” of North Eastern Electric Power Corporation (NEEPCO), Shillong.

Other activities:

Prof. B. K. Tiwari in the capacity of Coordinator, Steering Committee appointed for NAAC reaccreditation, prepared the self study report of NEHU in consultation with other members of the committee. Delivered invited lecture on Biodiversity-conceptual background and relevance in north-east India and Meghalaya in St. Mary's College on 13th September 2008. Delivered two lectures in the training programme on “Environmental Economics, Environmental Accounting and Environmental Impact Assessment” organized by Centre for Environmental Studies during March 30- April 3, 2009. The title of the lectures: Significance of natural resources for sustainable development and Environmental Goods and Services. Delivered lecture entitled “Environmental education and sustainable development at the UGC-ASC Third Orientation Course on 23rd February 2009. Jointly Organized the Environmental Science section of the 96th Indian Science Congress 2009 in the capacity of Local Sectional Secretary. Also, jointly organised a symposium on biodiversity Conservation at the 96th Session Indian Science Congress held on 3-7 January 2009 at NEHU, Shillong. Jointly edited the Souvenir of the 96th Indian Science Congress held on 3-7 January, 2009.

Prof. L.K. Jha delivered one Invited lecture on “Forests and Environmental Conservation” in Refresher Course in Department of Geography, NEHU, Shillong on 29 July 2008.

Prof. O.P. Singh delivered 3 lectures on Environmental Pollution and Abatement, Environmental Impact Assessment: A tool for protection of Environment, and Water Resources: Use, Abuse and Conservation in Refresher Course in Geography on 23, 24, & 29 July 2008, organized by UGC-Academic Staff College, NEHU, Shillong, July 22-august 12, 2008. Delivered two lectures on Visualization of Gene Expression in *Chironomus tentans* in Refresher Course in Zoology on 14.11.2008. Prof. Singh was Convener of the Exhibition Committee (Pride of India) of the 96th Session of the Indian Science Congress held during Jan 3-7, 2009 at NEHU, Shillong.

Dr. D. Walia delivered lecture on “Disaster management and mitigation” during the UGC –ASC 3rd Orientation Course on 26th February 2009.

Ph. D degree awarded by Mizoram University, Aizawl.

H. Lalthanzara, Title of the thesis: “Ecological Studies on Earthworm Population in Agroforestry System of Mizoram” supervisor: L.K. Jha and S.N. Ramanujan.

IV

SCHOOL OF LIFE SCIENCES

Dean : Professor Veena Tandon upto 15.1.2009.
Professor B. K. Sharma w.e.f. 16.1.2009.
Telephone : 0364 2722001 (O), 9436110599 (M), Fax No. 2550108
E-mail : deansls@nehu.ac.in: bksharma@nehu.ac.in

The School of Life Sciences comprises four academic departments: Biotechnology and Bioinformatics, Biochemistry, Botany and Zoology, which all offer postgraduate teaching and Ph.D. programmes. In all the departments the input of students at the postgraduate level has been increased by 15-20% since the session of 2007. The faculty members in the School are actively involved in research, have received several awards and are having collaborative research programmes with national and international research groups. All the have received substantial research grants from national and international funding agencies during the year. The departments of Botany (a Centre for Advanced Study), Biochemistry (DRS II) and Zoology (DSA) are supported by the UGC's Special Assistance Programme (SAP), as also by DST under its 'Fund for Infrastructure in Science and Technology' (FIST) programme, and Biotechnology and Bioinformatics received funding from DBT for purchase of equipments to strengthen Biotechnology infrastructure. The department of Botany and Zoology also got a special grant in two phases from UGC for improvement of laboratory infrastructure and facilities so as to be on par with international standards. With the implementation of an MOU between NEHU and Defense Research & Development Organization (DRDO), GOI, several collaborative research projects in fields of interest with Life Sciences are in progress in the School.

Each department has identified its thrust areas of research that include 'Medical & Microbial Biochemistry' (Biochemistry), 'Molecular Genetics & Applied Microbiology' (Biotechnology & Bioinformatics), 'Plant Diversity Assessment & Conservation' (Botany) and 'Faunal Diversity and Ecophysiology' (Zoology). Under the 'University with potential for excellence' programme of UGC, the integrative school-

level research project on 'Biosciences' got started with 'Biodiversity: assessment, conservation and value addition' as its thrust. Almost the entire faculty of the School is participating in this ambitious programme having tenure of five years and the supporting man power recruited under the project includes 4 Research Associates, 24 Junior Research Fellows and 5 Laboratory Attendants. Besides, a school-level central instrumentation facility has been set up with some state-of-the-art equipments, namely, DNA Sequencer, DNA Synthesizer, Confocal Laser Microscope, Real-Time PCR/Thermal cycler, 2-D Protein Gel Electrophoresis & MalDI-ToFF Unit and Bioreactor. During the year 81 students were awarded M.Sc. Degree and 8 Ph.D. In all 24 research students availed research assistance under UGC's special scheme and 33 research students (under SC/ST category) were the recipients of the 'Rajiv Gandhi Fellowship'.

DEPARTMENT OF BIOCHEMISTRY

Head : Professor Anis Alam
Telephone : 0364 2722101 (O), 2551641 (R)
E-mail : anisalam14@yahoo.com

Thrust Area of Research: The Medical and Microbial Biochemistry are the thrust areas of research in the Department of Biochemistry. Medical Biochemistry comprises of (1) Hormone and Aging Research, (2) Carcinogenesis and Radiation Molecular Biology, (3) Drug Delivery/Targeting and Immuno-therapy, (4) Medicinal plants and Biodiversity, and (5) Protein Chemistry and Enzymology. Microbial Biochemistry includes plant- microbe interaction and nitrogen fixation.

Brief Statement of Academic Activities: The Department admitted nineteen students for M.Sc. and 5 students for Ph.D. Programmes. During 2008-09, eighteen students successfully completed their M.Sc., and three students were awarded Ph.D. degree. Six students were awarded Rajiv Gandhi Fellowship, while one student received UGC fellowship to pursue Ph.D. Phase-I of DRS was completed in this year, while DST-FIST programme continued in the department. All the faculty members were also involved as project investigators of the research focus-Biosciences under UPE (University with potential for excellence) scheme funded by UGC. During this period, faculty members also participated in various seminar/workshop/conference/symposia, etc.

School of Life Sciences

Faculty:

- Professors : R. Lalthantluanga, Ph.D. (Pune)
 A.N. Rai, Ph.D (Dundee) (on lien as V.C., Mizoram Univ.)
 R. Sharma, Ph.D. (BHU)
 R.N. Sharan, Ph.D. (JNU)
 A. Alam, Ph.D. (FTI, Mosco)
- Readers : D. Syiem, Ph.D. (NEHU)
 A.K. Singh, Ph.D. (Central Univ. Hyderabad) (On study leave)
 M.B. Syiem, Ph.D. (NEHU)
- Lecturers : P.K. Ambasht, Ph.D. (BHU)
 L. Kma, Ph.D. (NEHU) (PDF at Wisconsin, Feb. 2009)
 S. Bhan, Ph.D. (BHU)
 T. Tripathi, M.Sc. (University of Mysore)

Visiting Professors/Fellow/Scholars in the Department/Centre:

Prof. Nitai P. Bhattacharyya, Saha Institute of Nuclear Physics, Kolkata, was appointed as Visiting Fellow for the period w.e.f. 26.5.08 to 6.6.08 for delivering class lectures on the Microbiology course.

Student intake:

Enrolment capacity: M.Sc. = 19 Ph.D. = Variable

Actual Admission SC/ST/Gen. Male/Female Meghalaya/Outside Meghalaya

M. Sc.	-	16	3	4	15	19	-
Ph. D.	-	4	1	2	3	5	-

Degrees Awarded: SC ST Gen. Male Female Total

M. Sc.	-	12	6	9	9	18
Ph. D.	-	3	-	2	1	3

Ph.D.

D. Goyary, "Dietary and hormonal regulation of malate aspartate shuttle enzymes in mice". Supervisor: Prof. R. Sharma

M. Odyuo, "Study of radiation induced DNA damage and repair: Influence of free radicals and nucleotide sequence". Supervisor: Prof. R.N. Sharan

N. Pauzakhup, "Screening of Medicinal Plants for their anti-hyperglycemic property". Supervisor: Dr. D. Syiem.

Placement of students: Ms. A. Jana, Ms. T. Marbaniang and Ms. S. Goswami, Rel-Bio, Mumbai; Mr. K. J. Laloo, SBI, Shillong; B. Sokhlet, Lecturer, Sikkim Manipal University, Shillong; Mr. E. Passah, Forest Ranger, Meghalaya.

Courses conducted: Following Choice Based Credit System (CBCS) courses were conducted for M.Sc.

Semester I: Chemistry and Biomolecules, Enzymology, Intermediary Metabolism, Practicals.

Semester II: Techniques in Biochemistry, Physiological Chemistry, Microbiology, Practicals.

Semester III: Genetics, Medical Biochemistry, Environmental Biochemistry, Nutritional and Clinical Biochemistry, Practicals.

Semester IV: Molecular Biology, Immunology, Bioenergetics, Practicals, Core Course, Open course.

Following Course were conducted following the old syllabus for M.Sc. :

Semester I: Introductory Biological Chemistry, Environmental Biochemistry & Metabolic Pathways-I, Enzymology, Practicals

Semester II: Techniques in Biochemistry, Physiological Chemistry, Bioenergetics, Practicals

Semester III: Genetics, Medical Biochemistry, Metabolic Pathways-II, Practicals

Semester IV: Molecular Biology, Microbiology, Immunology, Practicals

Seminars/conferences/symposia/workshops/extension programmes etc. :

Organized:

The Department organized a seminar on "Recent Trends in Biochemistry Research" on March 27, 2009 under UGC-DRS programme. Sixteen abstracts were received. Thirteen Papers were presented by the research scholars and Faculty members from different colleges of Shillong. Invited speaker Prof. M.M. Chaturvedi, University of Delhi delivered a lecture.

Attended:

Prof. R. Sharma attended (i) National Seminar on Ageing in India with Special Reference to North East India. ICSSR-NERC, Shillong October 1-2, 2008 and presented a paper entitled "Dietary restriction-a way to elixir of youth", (ii) International

Symposium & Conference of Gerontology and Geriatrics and 14th Biennial Meeting of the Association of Gerontology, (India), SV Univ. Tirupati December 16-18, 2008 and presented a paper entitled "Dietary restriction for healthy aging: a newer perspective to age-old practice", and (iii) 96th Indian Science Congress, January 3-7, 2009, NEHU, Shillong, and presented a paper entitled "Dietary restriction: a way to longer life". He also chaired (i) CSIR-sponsored Symposium on Molecular Aging and its interventions on December 16, 2008 at SV Univ., Tirupati, (ii) two sessions during 96th Indian Science Congress under Medical Sciences (including Physiology) held at NEHU (January 4-7, 2009), and (iii) a session during National Seminar on Ageing in India with Special Reference to North East India, October 1-2, 2008, ICSSR-NERC, Shillong.

B. Kharwanlang (Supervisor Prof. R. Sharma) attended Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong, and presented a paper entitled "Anti-inflammatory role of glucocorticoids: a cross-talk between glucocorticoid receptor and MAPK family".

D. Nongbri (Supervisor Prof. R. Sharma) attended Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong and presented a paper entitled "Physicochemical characterization of hepatic Glucocorticoid receptor complexes during postnatal development of chicken".

K. Suchiang (Supervisor Prof. R. Sharma) attended Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong and presented a paper entitled "Mouse brain acetylcholinesterase: its modulation by age and dietary restriction".

Prof. R. N. Sharan (i) chaired a scientific session VI titled 'Novel approaches in radioprotection and decorporation' in an Indo-US Workshop on "Medical countermeasures for radiation injuries: Current and evolving technologies" held at INMAS, DRDO, Delhi (August 16-20, 2008), (ii) delivered the key-note address titled "Man, Environment and Biodiversity: Interaction, Cancer and Screening for Early Detection" in a national seminar to commemorate the World Biodiversity Day on May 22, 2008 at Hotel Green Horizon, Ranchi.

Dr. S. Chatterjee (Supervisor Prof. R.N. Sharan) attended (i) International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008, and presented a paper entitled "Genomic Instability Induced in Chinese Hamster Ovary (CHO) Cell Line Exposed to g-radiation", and (ii) Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry,

NEHU, Shillong and presented a paper entitled "Early nuclear changes in Swiss Albino mice exposed to varying dose of gamma radiation".

Y. Choudhury (Supervisor Prof. R.N. Sharan) attended (i) International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008, and presented a paper entitled "Genomic Instability Increases Risk Of Cancer In Mice Exposed Transgenerationally To Aqueous Extract Of Betel Nut", and (ii) 96th Indian Science Congress, NEHU, Shillong, January 3-7, 2009, and presented a poster entitled "Intrinsic Involvement of p53, BRCA1 and BRCA2 genes in Betel nut induced carcinogenesis in mice".

R. Lakadong (Supervisor Prof. R.N. Sharan) attended (i) International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008, and presented a paper entitled "A potential biomarker of cancer: Poly-Adp- Ribosylation (Par) of peripheral blood lymphocyte proteins in human cancers and the factors influencing It., and (ii) 96th Indian Science Congress, NEHU, Shillong, January 3-7, 2009, and presented a paper entitled "Poly-ADP-ribosylation of peripheral blood lymphocytes in Humans: A cancer biomarker with applied potential for early cancer detection.

D. A. Barih (Supervisor Prof. R.N. Sharan) attended International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008, and presented a paper entitled "Study of genomic DNA damage by UV-C radiation in mouse and chinese hamster ovary (Cho) Cells: *P53* Gene".

L. H. H. Khetbadei (Supervisor Prof. R.N. Sharan) attended International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008, and presented a paper entitled "Modulation of chinese hamster ovary (CHO) antioxidant defence system by *Viscum album* extract after acute exposure To α -Radiation".

S. Majaw (Supervisor Dr. D. Syiem) attended 96th Indian Science Congress, January 3-7, 2009, NEHU, Shillong and presented a poster entitled "Effect of different extracts of *Potentilla fulgens* L. on the polyol pathway enzymes of kidney in normal mice".

W. Lyngdoh (Supervisor Dr. D. Syiem) attended 96th Indian Science Congress, January 3-7, 2009, NEHU, Shillong and presented a poster entitled "Effect of *Gymnopetalum cochinchinensis* on blood glucose level in normal and alloxan-induced diabetic mice".

School of Life Sciences

V. Saio (Supervisor Dr. D. Syiem) attended 96th Indian Science Congress, January 3-7, 2009, NEHU, Shillong and presented a poster entitled "Antioxidant potential of *Potentilla fulgens*, an anti-diabetic plant."

P. Warjari (Supervisor Dr. D. Syiem) attended Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong and presented a paper entitled "Anti-oxidant property and antidiabetic effects of *Ixeris gracilis* DC. Extract".

W. Sh. Monsang (Supervisor Dr. D. Syiem) attended Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong and presented a paper entitled "Activity guided chromatographic profiling of the antidiabetic plant *Potentilla fulgens* (L)".

Dr. D. Syiem attended 96th Indian Science Congress, January 3-7, 2009, NEHU, Shillong and presented a poster entitled "Diabetes Scenario in Meghalaya: A pilot study".

Dr. M.B. Syiem attended National seminar on Toxicity of chemicals and their hazards with special reference to heavy metals, October 23-24, 2008. St. Edmund's College, Shillong, and presented three posters entitled "A study on the effect of salt concentration on the growth of diazotrophic cyanobacterium *Anabaena cycadeae* and *Nostoc muscorum*", "Role of cyanobacteria in cadmium bioremediation in rice fields", and "Role of proline in management of NaCl and pH stress in cyanobacteria".

G. Paul (Supervisor Dr. A.K. Singh) attended National seminar on Toxicity of chemicals and their hazards with special reference to heavy metals, October 23-24, 2008, St. Edmund's College, Shillong and presented a poster entitled "Evaluation of strontium toxicity and its accumulation on cyanobacteria isolated from polluted regions of Meghalaya".

A. Bhattacharjee (Supervisor Dr. M.B. Syiem) attended (i) International Symposium on Plant Biology and Environmental: Changing Scenario. December 17-19, 2008, University of Allahabad, Allahabad and presented a poster entitled "Cyanobacterial Application in Rice Fields: Dual Benefits in Eco-restoration", (ii) 96th Indian Science Congress. January 3-7, 2009, NEHU, Shillong, and presented a poster entitled "Intracellular Proline Accumulation during Stress Management in Cyanobacteria", and (iii) International Conference on Changing Environmental Trends and Sustainable Development (CETAS-2009). February 9-11, 2009, G. J. University of Science & Technology, Hisar, India, and presented a paper entitled "Cadmium removal by an *Anabaena* sp. isolated from coal mining areas of Meghalaya, India".

B. Nongbri (Supervisor Dr. M.B. Syiem) attended (i) International Symposium on Plant Biology and Environmental: Changing Scenario, December 17-19, 2008, University of Allahabad, Allahabad, and presented a poster entitled "Cyanobacterial diversity in Meghalaya: An Indo-Malayan Biodiversity hotspot", and (ii) Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong, and presented a paper entitled "Cyanobacterial diversity in East Khasi Hills, West Khasi Hills, Jaintia Hills and Ri-Bhoi districts in Meghalaya".

L. Hynniewta (Supervisor Dr. M.B. Syiem) attended (i) 96th Indian Science Congress, January 3-7, 2009, NEHU, Shillong and presented a poster entitled "Morphological, Physiological and Biochemical Characterization of the Cyanobacterium Associated with the Cyanolichen *Sticta weigellii*.", and (ii) Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong, and presented a paper entitled "Purification, identification and partial biochemical study of the cyanobiont present in the Cyanolichen *Parmotrema mollessi*".

N. A. Nongrum (Supervisor Dr. M.B. Syiem) attended (i) National Symposium on Phycology in India: Basic to Applied, February 12-13, 2009, Punjabi University, Patiala, India, and presented a paper entitled "*Nostoc* ANTH: A promising cyanobacteria in fields of agriculture and in bioremediation", and (ii) Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong, and presented a paper entitled "Zinc removal ability of the Cyanobacterium *Nostocant*".

S. Adhikari (Supervisor Dr. A.K. Singh) attended Seminar on Recent Trends in Biochemistry Research, March 27, 2009, Department of Biochemistry, NEHU, Shillong, and presented papers entitled "A study on the effect of salt concentration on the growth of diazotrophic cyanobacterium *Anabaena cycadeae* and *Nostoc muscorum*" and "A study on the effect of Gadolinium on the growth of diazotrophic cyanobacteria *Anabaena* sp".

T. Tripathi attended National Symposium on Cellular and Molecular Biophysics, held at CCMB, Hyderabad, January 22-24, 2009 and presented a paper entitled "Characterizing the structural and functional traits of Glutathione S-transferase from *Plasmodium* sp."

Publications:

Published in India

Kayang, H., B. Kharbuli and D. Syiem. 2008. *Gaultheria fragrantissima* Wall.-

An untapped economic plants species of Meghalaya. *Natural Product Radiance*, 7: 400.

Kayang, H., B. Kharbuli and D. Syiem. 2009. *Litsea Wall.*-An untapped economic plants species of Meghalaya. *Natural Product Radiance*, 8: 5.

Published Abroad:

Singh, A. K., M.B. Syiem, R.K.S. Singh, S. Adhikari and A.N. Rai. 2008. A common transport system for methionine, L-methionine-DL-sulfoximine (MSX), and phosphinothricin (PPT) in the diazotrophic cyanobacterium *Nostoc muscurum*. *Current Microbiology*, 56: 436–441.

Goyary, D. and R. Sharma. 2008. Late onset of dietary restriction reverses age-related decline of malate-aspartate shuttle enzymes in the liver and kidney of mice. *Biogerontology*, 9: 11-18.

Sharma, R. 2008. Dietary restriction as a potential healthy aging intervention. *Okinawa Wellness & Longevity Journal*, 2: 15-23.

Bhattacharjee, C. and R.N. Sharan. 2008. Aqueous extract of betel nut (AEBN) induced adducts on pMT 4 DNA acquires stability in the presence of Na⁺ and K⁺ ions. *Molecular Medicine Report*, 1: 435-441.

Choudhury, Y. and R.N. Sharan. 2008. Altered p53 response and enhanced transgenerational transmission of carcinogenic risk upon exposure of mice to betel nut. *Environmental Toxicology and Pharmacology*, 27: 127-138.

Alam, A., K.S. Nakhuru and L.I. Singha. 2008. Carcinogenesis response modulation induced by gelonin encapsulated in liposome, *Molecular and Cellular Biochemistry*, 315: 85-95.

Tripathi, T., S. Rahlfs, K. Becker and V. Bhakuni. 2008. Structural and stability characteristics of a monothiol glutaredoxin: Glutaredoxin like protein-1 from *Plasmodium falciparum*. *Biochimica et Biophysica Acta*, 1784: 946-952.

Syiem, D., P.Z. Khup and A.B. Syiem. 2008. Evaluation of anti-diabetic potential of *Albizia lebbek* bark in normal and alloxan-induced diabetic mice. *Pharmacologyonline*, 3: 563-573.

Book/ Book Chapter /Proceedings:

Sharan, R. N. 2009. Poly-ADP-ribosylation in cancer, Invited contribution (peer-reviewed multi-author review) for a monograph titled Cancer Epigenetics edited by Trygve Tollefsbol, Chapter 15, pp 265-279, CRC Press, USA.

Syiem, M. B., A.K. Singh and A.N. Rai. 2009. Nitrogen Metabolism in Cyanobacteria. In *Algal Biology and Biotechnology* Eds: J.I.S. Khattar, DP Singh and G. Kaur.81-95. I. K. International Publishing House Pvt. Ltd., New Delhi.

Majaw, S. and D. Syiem. 2008. Medicinal plants: potential source in the treatment of diabetes. In *Biodiversity: Herbal Medicine*. Eds. D. Marngar and S. Jyrwa. 204-210. Akansha Publishing House, New Delhi.

Bhattacharjee, A., N.A.Nongrum, M.B. Syiem and S. Adhikari. 2008. Role of cyanobacteria in cadmium bioremediation in rice fields. In: Proceedings of National seminar on toxicity and chemicals and their hazards with special reference to heavy metals, 73-80. St. Edmund's College, Shillong, Meghalaya.

Nongrum, N. A., A. Bhattacharjee, M.B. Syiem and A.N. Rai. 2008. Role of proline in management of NaCl and pH stress in cyanobacteria. In: Proceedings of National seminar on toxicity and chemicals and their hazards with special reference to heavy metals 114-120, St. Edmund's College, Shillong, Meghalaya.

Syiem, M.B., Bhattacharjee, A. and Nongrum, N. A. 2009. Cadmium removal by an *Anabaena* sp. Isolated from coal mining areas of Meghalaya, India. *Proceedings International Conference on Changing Environmental Trends and Sustainable Development*, 129-133, G. J. University of Science & Technology, Hisar, India.

Funds received from agencies other than NEHU:

SAP-DRS programme, UGC, New Delhi	: 3.77 Lakhs
FIST Programme, DST, New Delhi	: 37 Lakhs
UGC	: 6.3 Lakhs
DST	: 20 Lakhs
DRDO	: 9.9 Lakhs.

Infrastructure facilities:

HPLC,UV-Visible Spectrophotometer (2), Cold Room, Fluorescence Spectrophotometer, Refrigerated High Speed Centrifuge (2), Laminar Flow, Gas Chromatography Unit, Ultra Freeze (2), CO₂ incubator, PCR Master Cycler, Semi-dry and Western Blot Units with Power supply and accessories, Transilluminator (UV and Visible), Electronic Balance, Liquid Scintillation Counter, Ice Flake Machine, Genset connection to the Central Instrument Facility.

Research Projects:

Ongoing:

Preparation of molecular signature of genomic DNA following exposure to radiation and oxidative stress, Prof. R.N. Sharan; Rs. 9.90 Lakhs (2007-09); DRDO.

New:

"Dietary and hormonal modulation of protein carbonylation in mice as a function of age", Prof. R. Sharma, 9.51 Lakhs, UGC New Delhi (2009-2012).

"Molecular and immune-chemical characterization of tumour associated antigens expressed in mice exposed to nitrosamines", Prof. A. Alam, 20 Lakhs, DST

Completed:

SAP-DRS programme (Phase-I), UGC, New Delhi.

Academic/Professional Collaboration:

The Department of Biochemistry has collaborations with University of Konstanz, FRG; University of Dundee, UK; Uppsala University, Sweden; University of California; Institute of Enzyme Research, Japan; Toho University, Japan; Research Center Juelich, FRG; Osaka University, Japan; University of Cambridge, UK; JNU, New Delhi and BHU, Varanasi, India.

Honours/Awards/Recognition:

Prof. R. Sharma was elected as Fellow of the National Academy of Sciences (FNASc), India (2008); Elected as Vice-President of the Association of Gerontology, India (2009-10); Nominated member of Academic Council, Mizoram University, Aizawl (2009-12); Sectional Secretary for Medical Sciences (including Physiology) during 96th Indian Science Congress at NEHU, Shillong; Expert Committee member for Young Scientist selection under Medical Sciences (including Physiology) for Indian Science Congress Association, Kolkata (October 17, 2008).

Prof. R.N. Sharan acquired an Indian patent under PAT/4.18.2/08044 on Poly-ADP-ribosylation (PAR) of cellular proteins based tool for early cancer detection and for mass screening of human population; concept recognition was earlier granted by UGC-UNDP-APCTT-SPI as 'emerging technologies and potentials of research from Indian Universities' under Life Sciences/Pharmaceuticals and Healthcare section (KCRC01/002) in 2002 (URL: <http://www.ugc.ac.in/more/detail.php?id=64>).

Ms. Y. Choudhury, (Supervisor: Prof. R.N. Sharan) bagged (i) the 'Best Oral

Presentation Award/Young Scientist Award' for the presentation "Genomic instability increases risk of cancer in mice exposed transgenerationally to aqueous extract of betel nut" at the International Conference in Radiation Biology (ICRB), University of Rajasthan, Jaipur, November 12-16, 2008; (ii) the 'Best Poster Presentation Award' for the presentation "Intrinsic Involvement of p53, BRCA1 and BRCA2 genes in betel nut induced carcinogenesis in mice" at the 96th Indian Science Congress, NEHU, Shillong, January 3-7, 2009.

Dr. L. Kma was selected for the BOYSCAST Fellowship of DST, Govt. of India, 2008-09 to undertake research in Florida International University, Miami, USA.

Mr. T. Tripathi was awarded Dr. S.C. Bose Award in the "National Symposium on Cellular and Molecular Biophysics", held at CCMB, Hyderabad, Jan. 22-24, 2009.

Other Activities:

Prof. R. Lalthantluanga was (i) Local Organizing Secretary, 96th Indian Science Congress, NEHU, Shillong, January 3-7, 2009; and (ii) Coordinator, UPE-Biosciences programme.

Prof. R. Sharma delivered (i) an extra mural lecture titled "Eat Less and Live Long- A Scientific Approach" at the National Institute of Industrial Technology (NITIE), Mumbai on January 28, 2009; (ii) lectures in Refresher Courses held in Chemistry, Botany and Zoology at NEHU, Shillong; (iii) lecture on "Physical and Biological Growth in Adolescence: Associated problems and their remedies" at KV, NEHU, Shillong (October 17, 2008); (iv) lectures at the Dept. Biotechnology and Molecular Biology, Tezpur University (November 8-9, 2008).

Prof. R.N. Sharan was Local Joint Secretary of the Organizing Committee and Chairman of sub-committees on (i) Fund Raising and (ii) Exhibition for the 96th Indian Science Congress held at NEHU from January 3-7, 2009.

Prof. A. Alam delivered a talk on "Liposome as carrier in drug delivery system" for refresher course organized by the Department of Chemistry NEHU, Shillong, October, 2008.

Dr. D. Syiem (i) attended National Roving seminar on traditional knowledge Organized by WIPO & Centre for Environmental Studies, NEHU, August 7-8, 2008 and National Seminar on Ageing in India with special reference to North East India ICSSR-NERC, NEHU, Shillong, October 1-2, 2008 and (ii) as a Resource Person in Environmental Awareness Camp: Environment & Conservation Nongtraw village, May 17, 2008; Refresher course in Botany, NEHU, November 3, 2008; Refresher

course in Zoology, NEHU, November 21, 2008; Orientation Programme in Martin Luther Christian University, October 20, 2008; State Level Workshop on local health traditions organized by Dept of AYUSH, NEIFM & MLCU, November 6, 2008 and delivered a talk on Traditional knowledge. He delivered an invited talk on Traditional knowledge and drug discovery in 96th Indian Science Congress, January 3-7, 2009 NEHU, Shillong

Dr. M.B. Syiem attended National Seminar on Nuclear Science and its application in various field, May 13-14, 2008, St. Mary's College, Shillong.

Dr. P.K. Ambasht attended National BHU Alumni Meet 2009 and National Seminar on Mahamana's Vision for a Self reliant India: Current Issues and Future Prospects, B.H.U., Varanasi January 29-30, 2009.

Mr. T. Tripathi attended Workshop on Molecular Interaction & Dynamics by Fluorescence Microscopy on January 25, 2009, held at CCMB, Hyderabad.

Members of Editorial Boards:

Prof. R. Sharma, Biogerontology, Springer, Netherlands, Okinawa Wellness & Longevity Journal, Okinawa, Japan, and International Journal of Developmental Neurosciences, Elseviers, USA.

Prof. A. Alam, Indian Journal of Experimental Biology.

Dr. D. Syiem, Journal of Applied Bioscience & Biotechnology, Guwahati.

Dr. P.K. Ambasht, Journal of Proteins and Proteomics, Serial Publications, New Delhi.

DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS

Head : Professor S. Rama Rao
Telephone : 0364 272 2401/272 2402 (O)
E-mail : biotechnologynehu@hotmail.com

Thrust Area of Research: Molecular Genetics; Applied Microbiology.

Brief Statement of Academic Activities: The department of Biotechnology & Bioinformatics was started in 2005. It has Post Graduate (M.Sc. and Ph.D.) academic programmes. North Eastern Region of India is rich in flora and fauna, and is in the region of hotspot of Biodiversity. For the Bioresource development, its exploration, conservation and proper utilization, the need of trained manpower was felt in Biotechnology and the linkage of biotechnological work with bioinformatics network. Therefore, the Department of Biotechnology and Bioinformatics has initiated the programme and is providing training and research environment which provides people with latest information in their respective fields and bring them closer to the rest of the world as far as scientific advancements are concerned. Based on overall academic objectives of the Department and its faculty's potentialities the department was considered for financial support for "M. Sc. Biotechnology" by the Department of Biotechnology, New Delhi. Two batches of M.Sc. students have successfully completed their M.Sc. degree and some of them have already joined in National Biotech Companies. The Department while giving importance to the global scenario has the regional importance in research and development incorporated into its programme. This programme is intended to develop, acquire and maintain modern state-of-the-art teaching, training, research, databases and software development related to biologically rich resources of the North eastern region of India, which could ultimately contribute towards socio-economic development of the tribal people of the region.

Faculty:

Professors : A. Chatterjee M. Sc. (Burdwan) / Ph. D. (BHU)
S. Rama Rao, M. Sc. / Ph. D. (Jodhpur)
Readers : S.R. Joshi, M. Sc. / Ph. D. (NEHU)
Lecturers : S Majaw, M. Sc. (Tezpur)
A Bhattacharjee, M. Sc./Ph. D (NEHU), M.Sc. (Annamalai)

School of Life Sciences

Visiting Professor/Fellows/Scholars:

Prof. T. K. Choudhury, Immunology laboratory, North-Bengal University, Darjeeling, W.Bengal, visited the Department during September/October, 2008.

Student intake:

Enrolment capacity: 24 (twenty-four)

Actual Admission:	SC/ST /OBC /Gen			Male/Female		From Meghalaya	From Outside	
M.Sc	-	16	-	8	9	15	14	10
Ph D	-	3	-	4	3	4	3	4

Degrees awarded:

	ST	OBC	Gen	Male	Female	From Meghalaya	From Outside
M.Sc	8	1	4	7	6	13	-

Placement of students:

Ms. Victoria Hmar was employed at IIT , Madras. Mr. Parmal Biswa was employed at IIT, Madras.

Courses conducted (provide titles of the courses only)

I Semester (CBCS): Cell Biology & Genetics, Biomolecules, Microbiology,

II Semester (CBCS): Molecular Biology, Immunology, Microbial Technology

III Semester: Animal Cell Science & Technology, Genetic Engineering, Plant Biotechnology.

IV Semester: Bioprocess Engineering & Technology, Environmental Biotechnology, Molecular Genetics, Applied Microbiology.

Study tours/field trips of students:

Ms S Majaw and Dr A Bhattacharjee took the M.Sc. IV Semester students for a study tour to Bangalore and Chennai and visited various institutions during 2nd to 16th February 2009, as partial fulfillment of their curricular requirements for M.Sc. in Biotechnology. The institutions visited were : Metahelix, Bangalore, GSVK Campus, Bangalore, CFTRI, Mysore, Bangalore University, Bangalore.

Seminars/conferences/symposia/extension programmes, etc. :

Attended

Dr. S. R. Joshi delivered an invited talk on "Indigenous Fermented Foods: A Traditional Knowledge Base For Potential Medicinal Microbes" at the National Symposium organized by Centre for Environmental Studies, NEHU and WIPO at NEHU Shillong (07 August 2008) .

He presented (i) a paper entitled "Prevalence and incidence of microbes in retail raw chicken meat of Shillong". In proceedings of National Seminar on Advances in Medical and Microbial Biochemistry, Dept. of Biochemistry, NEHU, Shillong. Meghalaya(India), (ii) a paper entitled "Microbial Analysis Of Traditional And Conventional Foods Of Ethnic Tribes Of Meghalaya" at 96th Indian Science Congress, Shillong, Meghalaya(India), and (iii) a paper entitled "Characterization of Fluorescent pseudomonads from water bodies of uranium rich sites of Meghalaya" at the 96th Indian Science Congress, Shillong, Meghalaya(India).

Ms. S. Majaw presented a paper "Effect of different extracts of *Potentilla fulgens* L. on the polyol pathway enzymes of kidney in normal mice" during the 96th Indian Science Congress held at North Eastern Hill University, Shillong from January 3-7, 2009.

Dr. A. Bhattacharjee presented a paper on "Homology modelling and analysis of structure and function of Presenilin Enhancer -1 Protein --a component of gamma secretase enzyme complex implicated in Alzheimer's disease" at the 96th Indian Science congress, held At The North Eastern Hill University from 3rd Jan -7th Jan 2009.

Publications:

Published Abroad

Koch, B., T.S.B. Baul and A. Chatterjee. 2008. Cell proliferation inhibition and antitumor activity of novel alkyl series of diorganotin(IV) compounds. *Journal of Applied Toxicology*, 28: 430-438.

Prasad, P.K., V. Tandon, D.K. Biswal, L.M. Goswami and A. Chatterjee. 2008 Molecular identification of the Indian liver fluke, *Fasciola* Trematoda : Fasciolidae) based on the ribosomal internal transcribed spacer regions. *Parasitology Research*, 103: 1247-1255.

Majaw, S., S. Kurkalang, S.R. Joshi and A. Chatterjee. 2008. Effect of *Clerodendron colebrokianum* Walp. Leaf extract on cold-restraint stress in mice. *Pharmacologyonline*, 2: 742-753.

Ram, H., A. Kumar, S.K. Sharma and S.R. Rao. 2008. Genetic variation and chromosomal mosaicism in the natural populations of *Balanites aegyptiaca* (L.) Del. from Rajasthan, India. *Journal of Sustainable Forestry (USA)*, 27: 328-343.

Kumar, A., H. Ram, S.K. Sharma and S.R. Rao. 2008. Comparative meiotic chromosome studies in nine accessions of *Tecomella undulata* (Sm.) Seem., threatened tree of Indian desert. *Silvae Genetica (Germany)*, 57: 301-306.

Bewal, S., S.K. Sharma and S.R. Rao. 2008. Analysis of intra-specific genetic variation in *Calligonum polygonoides* L. (Polygonaceae) A keystone species of Indian desert. *Cytologia (Japan)*, 73: 411-423.

Singh, A., K.M. Devarumanth, S.R. Rao, V.P. Singh and S.N. Raina. 2008. Assessment of genetic diversity and phylogenetic based on ribosomal DNA repeat unit length variation and Internal Transcribed Spacer (ITS) Sequences in Chickpea (*Cicer arietinum*) Cultivars and its wild species. *Genetic Resource and Crop Evolution*, 55: 65-79.

Joshi, S.R., Bhagobaty and R. Kumar. 2008. Microbial Community on Leaf Surfaces of Broad-Leaved alder (*Alnus nepalensis* D. Don) and Needle-leaved khasi pine (*Pinus kesiya* Royle & Gordon) as Influenced by Atmospheric Dry Deposition of Roadside Pollution In Eastern Himalayas. *Research Journal of Environmental Sciences*, 2: 234-242.

Bhagobaty, R.K., and S.R. Joshi. 2008 DNA damage protective activity of the crude metabolites of endophytic fungi isolated from two ethno-pharmacologically important medicinal plants of the Khasi Hills of Meghalaya, India. *Pharmacologyonline*, 3: 882-888.

Joshi, S.R. 2008. Influence of roadside pollution on the phylloplane microbial community of *Alnus nepalensis* (Betulaceae). *Rev. Biol. Trop*, 56: 1521-1529.

Goswami, L.M., P.K. Prasad, V. Tandon and A. Chatterjee. 2009. Molecular characterization of *Gastrodiscoides* (Platyhelminthes: Trematoda: Digenea) inferred from ITS rDNA sequence analysis. *Parasitology Research*, 104: 1485-1490.

Geetanjali, P., A. Berni, F. Palitti and A. Chatterjee. 2009. Influence of glutathione level on radiation induced chromosomal DNA damage and repair in human peripheral lymphocytes. *Mutation Research*, 675: 23-28.

Prasad, P.K., V. Tandon, D.K. Biswal, L.M. Goswami and A. Chatterjee. 2009. Use of sequence motifs as barcodes and secondary structures of internal Transcribed spacer 2 (ITS2, rDNA) for identification of the Indian liver fluke, *Fasciola* (Trematoda:

Fasciolidae). *Bioinformation*, 3:314-320.

Published in India

Bhagobaty, R.K., S.R. Joshi and R.N. Das. 2008. Prediction of the microbial biodegradative pathway of organophosphorus pesticide Chlorpyrifos using the web based open access pathway prediction system of the university of Minnesota's Biocatalysis/Biodegradation database. *Bioinformatics Trends*, 3: 09-13.

Bhattacharjee, A., H. Choudhury, U. Maheshwari and S.R. Joshi. 2008. In-silico prediction of structural and functional aspects of a hypothetical protein of *Arabidopsis thaliana* (L) Heynh. *Advanced Biotech*, 7: 14-18.

Bhowmik, S.S.D., S. Kumaria, S.R. Rao and P.Tandon. 2009. High frequency plantlet regeneration from rhizomatous buds in *Mantisia spathulata* Schult. and *Mantisia wengeri* Fisher and analysis of genetic uniformity using RAPD marker. *Indian Journal of Experimental Biology*, 47: 140-146

Majaw, S. and Moirangthem, J. 2009. Qualitative and Quantitative Analysis of *Clerodendron colebrookianum* Walp. Leaves and *Zingiber cassumunar* Roxb. Rhizomes. *Ethnobotanical Leaflets* 13: 578-589.

Books chapters/Proceedings etc.

S. Majaw and D. Syiem. 2009. Medicinal Plants- Potential Source in the Treatment of Diabetes. In: Biodiversity Herbal Medicine. Akansha Publishing House, New Delhi-110002 (India), pp 204-210.

Kumar, R. and S.R. Joshi. 2009. Probiotics: Indigenous fermented foods as a source of potential medicinal microbes. In: Biodiversity-Herbal Medicine, Akansha Publishing House, Darya Ganj, New Delhi, India, pp 211-222.

Syiem, R.M., A. Chatterjee, S. Majaw and S.R. Joshi. 2009. Study on the adaptogenic properties of *Clerodendron colebrookianum* walp. on cold stress induced-mice. In: Biodiversity-Herbal Medicine, Akansha Publishing House, Darya Ganj, New Delhi, India, pp 134-139.

Bhagobaty, R.K., P. Biswa and S.R. Joshi. 2009. Isolation of endophytic fungus from *Osbeckia stellata* Buch. Ham. ex D. Don, a medicinal plant of the Pine forests of Meghalaya, India. In: Biodiversity- Herbal Medicine, Akansha Publishing House, Darya Ganj, New Delhi, India, pp 148-157.

Joshi, S.R. 2008. Relevance of microbial biosensors in environmental toxicity studies. In the proceedings of National Seminar on toxicity of chemicals & their hazards

with special reference to heavy metals. St.Edmund's College, Shillong, Meghalaya (India), pp 81-86

Kumar R, S.R. Joshi and C. Acharya. 2008. Metal tolerant bacillus and Pseudomonas from Uranium rich soils of Meghalaya. In: proceedings of 1st International Society of Biotechnology Conference, Sikkim. *Journal of Biotechnology*, pp 345-350.

Kumar, A., D. Rawat, S.K. Sharma and S.R. Rao. 2008. Analysis of meiotic chromosome associations in *Maytenus emarginatus* (Willd.) Ding Hou. a multipurpose arid-zone tree of India. In: *Utilization of Biotechnology in Plant Sciences* (eds. I. D. Arya and S. Arya). Forest Research Institute, Dehradun. (India), pp 95-104.

Kumar, R. and S.R. Joshi. 2008. Microbial ecology of the soil: Studying the diversity of microorganisms in the most complex of environments- A review. In: *Advances in Applied Microbiology, Agrobios, Jodhpur, India*, pp 267-277.

Rao, S.R., A. Kumar and N. Gaur. 2008. Haploidy and Cybrids. In: *Cellular and Biochemical Science Book* (ed. G. S. Tripathi). I. K. Publishers, New Delhi (India).

Funds received from agencies other than NEHU:

Department of Biotechnology	Rs. 5.60 lakhs
Department of Atomic Energy - BRNS, Mumbai	Rs 25.13 lakhs
Dept of Biotechnology/UGC- Govt. of India	Rs. 20.60 lakhs
MSc Support Programme, Department of Information Technology, Govt. of India	Rs 138.20 lakhs
Indian Council of Agricultural Research /NAIP/	Rs. 34.58 lakhs
World Bank.	

Research Projects :

New Project:

Loss of heterozygosity on specific chromosomal arms and influence of single nucleotide polymorphisms in XRCC1 and XPD genes in oral and esophageal cancers induced by raw betel-nut in Meghalaya" (Dr A Chatterjee) (PI) Rs. 21.15 lakhs, DBT, Govt of India,

Development of web-based microbial database of North-East India, Dr. S.R. Joshi (PI) Rs. 270.20 lakhs, , DIT, Govt of India.

Microclimatic studies of microbial diversity of Cherrapunjee and adjoining Sacred Groves. Dr. S.R. Joshi. (PI) Rs. 34.20 lakhs DIT, Govt of India.

Study of microbiology of Tungrymbai- the soybean fermented food of Meghalaya. Dr. S.R. Joshi (PI) Rs. 9.068 lakhs, DBT, Govt of India .

Biosystematics of the Genera Vigna, Cucumis and Abelmoschus A World Bank funded consortium research project of Indian Council of Agriculture Research (ICAR) / National Agriculture Innovation Programme (NAIP) in collaboration with National Bureau of Plant Genetic Resources (NBPGR), New Delhi and Shivaji University, Kolhapur. Prof. S.R Rao (PI) Rs. 106.60 lakhs.

Ongoing

Status and PCR-based Molecular discrimination of Paragonimiasis and other Crustacea-born Trematode Zoonoses in Northeast India. (Prof V. Tandon and A.Chatterjee).

Role of glutathione regulatory pathways in the oxidative stress response of radio resistant Sf9insect cells: comparison with mammalian cells DRDO, Institute of Medicine and Allied Sciences, Ministry of Defence, New Delhi, (Prof A. Chatterjee, and Dr S. Chandna).

Characterization of metal tolerant microbes form Domiasiat-Wakhyn area of Meghalaya., BRNS-BARC,(Dr. S.R. Joshi and Prof. A. Chatterjee)

Study of microbiology of Tungrymbai- the soybean fermented food of Meghalaya. DBT, Govt of India (Dr. S.R. Joshi).

Microclimatic studies of microbial diversity of Cherrapunjee and adjoining Sacred Groves (Dr. S.R. Joshi).

Development of web based microbial database of North-East India (Dr. S.R. Joshi).

Completed

Study of Selected Plants For Anti-Carcinogenic, Anti-Stress (Adaptogenic) And Radioprotection Ability. Project Sanctioned by Defence Agricultural Research Laboratory (DARL), DRDO Ministry of Defence, Pithoragarh, (Prof. A. Chatterjee (PI) , Dr. S.R. Joshi and Ms. S. Majaw (Co-PI).

Loss of heterozygosity on specific chromosomal arms and identification of sister-chromatid separation in oral carcinoma induced by raw betel-nut in Meghalaya. (A. Chatterjee, DBT, New Delhi).

Comparative analysis of microbial community of Cherrapunjee (degraded land) and Mawsynram sacred grove of Meghalaya – A pilot study to generate microbial database matching landscape ecology . DIT, Govt of India (Dr. S.R. Joshi)

Academic/Professional collaborations:

A collaborative research work in the field of Molecular Genetics (DNA repair) has been carried out under the Educational & Scientific Exchanges between Prof. A. Chatterjee, and Prof. F. Palitti, University of Tuscia, Italy.

A collaborative research work in the field of Molecular Genetics (role of glutathione on cellular radiosensitivity) has been going on between Prof A Chatterjee and Dr. S Chandna of Institute of Medicine and Allied Sciences, Ministry of Defence, New Delhi.

A collaborative research program on biosystematics of vegetable crop species has been initiated with National Bureau of Plant Genetic Resources, New Delhi and Shivaji University, Kollhapur with funding from ICAR/NAIP/World Bank.

A collaborative research work in the field of microbiology on characterization of novel metal tolerant gene(s) has been going on between Dr. Celin Acharya of BRNS-BARC and Dr. S.R. Joshi.

Honours/Awards/Recognition:

From the last year batch of M.Sc. Biotechnology (2007-2008) 3 qualified in the NET and 4 qualified in the DBT-JRF and 3 qualified in the GATE examinations.

Other Activities:

Prof A. Chatterjee (i) delivered a lecture in UGC-sponsored Refresher Course in the Department of Botany, NEHU, Shillong. Nov., 28th – Dec., 19th, 2008, (ii) Invited Plenary Lecture in the “Silver Jubilee Symposium on Dimensions of Research Applications in Animal Sciences” held on 2nd & 3rd Dec., 2008. In the Department of Zoology, North-Bengal University, Siliguri, West Bengal, (iii) a lecture as a Resource person for the ‘Molecular Biology Technique’ workshop at the Department of Molecular Biology, Presidency College, Kolkata, 27 – 30th Dec., 2008, (iv) Invited Lecture in the New Biology Section, 96th Indian Science Congress, 3rd to 7th Jan., 2009, at NEHU, Shillong, and (v) Invited Lecture in the “UGC (DRS-SAP-II) Sponsored National Seminar on “Attenuation on Stress Impacts on Plants” held on 31st March, 2009, in the Department of Botany, Utkal University, Bhubaneswar.

Prof. S.R. Rao delivered three lectures in UGC-sponsored Refresher Course

in the Department of Botany, NEHU, Shillong. November 28th – December 19th, 2008, (i) he *chaired a session* in the New Biology Section, 96th Indian Science Congress, 3rd to 7th January 2009, at NEHU, Shillong, and (ii) *chaired a session on popularization of science* Indian Science Congress during 3-7 January 2009 at NEHU, Shillong (iii) delivered an extension lecture at Mahila P.G. Mahila Maha Vidyalyaya, JNV University, Jodhpur on January 22, 2009.

Dr. S. R. Joshi (i) Resource person in the Environment Orientation Programme at Shillong organized by World Wide Fund for Nature-India and delivered a talk on "Biotechnology for Better Environment: Scope and Potentialities" on 22nd May, 2008. (ii) Delivered a talk on "Energy: The Driving Force" at the 16th National Children's Science Congress- 2008 "State-level- Master Resource Person's Training" at Shillong on 27th June, 2008. (iii) Presented an invited talk on "Relevance Of Microbial Biosensors In Environmental Toxicity Studies" at the National Seminar on Toxicity of Chemicals & their Hazards with special reference to Heavy Metals held at St Edmunds College (23-24th October) 2008. (iv) Presented a talk on "PROBIOTICS: Medicinal Microbes" at the Refresher course organized by Botany Department, NEHU, Shillong (16th Oct 2008) (v) Presented a talk on "Microbial Biosensors" at the Refresher course organized by Botany Department, NEHU, Shillong (21st Oct 2008) (vi) Attended the Annual Symposium "Novel Approaches to Biomedical Research" of National Academy of Sciences, India held at Panjab University(21-23rd Nov 2008) (vii) Coordinator and Chairman, Children Science Congress held during Indian Science Congress during 3-7 Jan 2009 at NEHU, Shillong (viii) Coordinator, National Science Day, Celebrated at NEHU, Shillong and sponsored by NASI, Allahbad and ISCA Local Chapter (ix) Delivered a talk on "Environment-The Role of College Teachers" at UGC-ASC Fourth Orientation Course, organised by department of Education, NEHU, Shillong on 30th March 2009 (x) Delivered a talk on "Teaching at Higher Education- Is skill a necessity for College Teachers" at UGC-ASC Fourth Orientation Course, organised by department of Education, NEHU, Shillong on 31st March 2009 (xi) Contributed an article "The relevance of children's science exhibition" for the Souvenir of 96th Indian Science Congress 2009, NEHU, Shillong. Pp14-15 (xii) Presented a paper "Promotion of Seed Germination by a Root Endophytic Fungus of *Potentilla fulgens* L." at the 49th Annual conference of Association of Microbiologists of India and International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics, University of Delhi, Delhi, Nov18-20, 2008. (xiii) Presented a paper "Microbiological Quality of retail milk samples of Shillong". In proceedings of National Seminar on Advances in Medical and Microbial Biochemistry, Dept. of Biochemistry, NEHU, Shillong. Meghalaya(India),

Ms. S. Majaw visited Industrial places like Biocon and MetaHelix at Bangalore as a part of study tour trip with students of 4th Semester in the month of February 2009 and also attended a Seminar on "Recent Trends in Biochemistry Research" held at the Department of Biochemistry, North Eastern Hill University, Shillong on 27 March 2009.

Dr. A. Bhattacharjee was invited as a resource person at a training programme at the Bioinformatics Centre, NEHU, Shillong on the topic "In Silico approach to Genome Analysis" held from 5-11th February 2009. He also attended a workshop on "Intellectual property and Technology Management" conducted at ICAR Research complex for NEH region, Umiam, Shillong during 20-22 November, 2008.

S.R. Joshi and SP Adhikari 2008. Art of Healthy and Productive Living . Text Book for Class II . Book Palace, Shillong pp 100.

Joshi, S.R. and Adhikari, S.P. 2008. Art of Healthy and Productive Living . Text Book for Class III . Book Palace, Shillong pp 63.

SR Joshi and SP Adhikari (2008) : Art of Healthy and Productive Living . Text Book for Class II . Book Palace, Shillong pp 62.

DEPARTMENT OF BOTANY

Head : Professor M. S. Dkhar
Telephone : 0364- 2722201, 2722202 (O)
Email : headbotany@nehu.ac.in

Thrust Area of Research: Plant diversity Assessment and Conservation: The Department is emphasizing research in following areas: ecological analysis of forest ecosystems of north-east India including plant biodiversity inventory and conservation; ecology of agro-forestry ecosystem; microbial diversity and its conservation; survey of plant genetic resources of the region, their taxonomic characterization and establishment of physical and electronic herbaria; conservation of plant diversity using both *in vitro* as well as *in vivo* technologies; establishment of gene bank of the region; cryo-preservation of genetic resources of the region; molecular characterization of rare, endangered and endemic plants of the region; documentation

of plant genetic resources using molecular markers; identification and isolation of genes coding desirable traits and their use in plant improvement programmes, molecular phylogeny and ecology, marker assisted plant improvement, development of molecular markers for native and transgenic bio-inoculants with special reference to IPR issues. These studies may help generate economic value in terms of extractable plant products, compounds, genes and species, for conservation of ecosystems and plant genetic resources for utilization and economic well-being of the people.

Brief Statement of Academic activities: The Department generated a grant of Rs. 319.49 Lacs through CAS and research projects from different funding agencies. The Department has implemented the Choice Base Credit system syllabus. Two scholars received doctorate degree during the year. Eighteen students were admitted for Ph.D. programme. Distinguished visitors delivered lectures to the faculty and students from time to time. Prof P. K. Gupta, Meerut visited the Department and delivered two lectures on DNA based molecular markers for Plant Biology and Marker assisted selection for Plant Breeding during 4 -5th January 2009. Educational excursion for postgraduate students was undertaken during January, 2009 in different places of India. Local study tours for M.Sc. project students were also conducted in different districts of Meghalaya.

Faculty:

Professors	: P. Tandon* M. Sc.(Lucknow) Ph. D.(Jodhpur) R. C. Laloo, M. Sc. (Gau.) Ph. D. (Gau.) A. K. Misra, M. Sc. (Meerut) Ph. D.(Meerut) N. K. Chrungoo, M.Sc./Ph. D. (Kashmir) M. S. Dkhar, M. Sc./Ph. D. (NEHU) N. Venugopal, M. Sc./Ph. D. (Madras) S. K. Barik, M. Sc. (Berhampur) Ph. D. (NEHU) Uma Shankar, M. Sc. (Agra) Ph. D. (NEHU)
Readers	: Y. Kumar, M.Sc.(Agra) Ph.D. (NEHU) L. Kharluki. M.Sc. (NEHU) Ph.D. (IARI) H. Kayang, M.Sc./Ph.D. (NEHU) S. Kumaria, M.Sc./Ph.D. (NEHU)
Lecturers	: P. Ramanujam, M.Sc./Ph.D. (NEHU) M. C. Das, M.Sc./Ph.D. (NEHU)

Visiting Professors/Fellows/Scholars: Dr. Hemen Sarma visited the Department to work under the guidance of Dr. Uma Shankar for his IASc-INSANA-NASI Summer Research Fellowship 2008 on "Trace Elements

Composition of Some Traditionally Used Medicinal Plants of North-Eastern India" from June 02, 2008 to August 01, 2008.

Student intake:

Enrolment capacity: M. Sc.: 27; Ph. D.: Variable

Actual admission :

Degree	Male	Female	SC	ST	General	Meghalaya	Outside	Total
M.Sc.	9	18	2	25	-	22	5	27
Ph.D.	6	12	-	11	7	9	9	18

Degrees awarded :

Degree	SC	ST	General	Male	Female	Meghalaya	Outside	Total
M. Sc.	X	19	1	6	14	20	-	20
Ph. D.	X	1	1	1	1	2	-	2

Ph. D.

Ms. Biswarupa Ghosh, Regeneration ecology and Sustainability of Harvest of bay leaf, *Cinnamomum Tamala* Fr. Ness in Meghalaya. Supervisor: Dr. Uma Shankar & Jt. Supervisor: Prof. S.Y. Barik

Mr. Stadwelson Dohling, Clonal propagation and cryopreservation of *Dendrobium longicornu* Lindl. & *Dendrobium formosum* Roxb.: Two endangered orchids of North-East India. Supervisor: Dr. Suman Kukaria & Jt. Supervisor Prof. Pramod Tandon.

Placement of students:

Ms. Aroma Lyngdoh joined the Department of Botany, Shillong College, Shillong as a Lecturer; Dr Stadwellson Dohling joined the Department of Botany, Lady Keane College, Shillong as a Lecturer; Dr. Solomon Jeeva joined the Department of Botany, Christian College, Tamil Nadu as Lecturer; Dr. Iaibadaiahun Nongrum joined the Department of Biotechnology, St Edmund's College, Shillong as a Lecturer; Cressida Jamir joined as scientist in Nagaland Agriculture service; and Anindita Khan joined as Research Scientist Tea Research Centre, Kurseong, West Bengal.

Courses conducted during the year:

Semester – I

BOT (C) 101 Mycology, Plant Pathology and Microbiology; BOT (C) 102 Mycology, Plant Pathology and Microbiology; BOT (C) 103 Algae, Bryophytes and

Pteridophytes; BOT (C) 104 Algae, Bryophytes and Pteridophytes; BOT (C) 105 Gymnosperms and Plant Anatomy; BOT (C) 106 Gymnosperms and Plant Anatomy.

Semester –II

BOT (C) 201 Plant Taxonomy and Economic Botany; BOT (C) 202 Plant Taxonomy and Economic Botany; BOT (C) 203 Plant Biochemistry and Molecular Biology; BOT (C) 204 Plant Biochemistry and Molecular Biology; BOT (O) 205 Stress Biology; BOT (O) 206 Rights and issues in Biology; BOT (O) 207 Techniques in molecular Biology.

Semester –III

BOT (C) 301 Genetics, Cytogenetics and Plant Breeding; BOT (C) 302 Genetics, Cytogenetics and Plant Breeding; BOT (C) 303 Plant Physiology; BOT (C) 304 Plant Physiology; BOT (O) 305 Biodiversity and Phytogeography; BOT (O) 306 Environmental pollution and Conservation; BOT (O) 307 Biostatistics.

Semester –IV

BOT (C) 401 Plant Reproductive Biology and Biotechnology; BOT (C) 402 Plant Reproductive Biology and Biotechnology; BOT (C) 403 Plant Ecology and Ecosystem Analysis; BOT (C) 404 Plant Ecology and Ecosystem Analysis; BOT (C) 405 Project Work.

Broad areas for specialization through Project Work: 1. Higher Plant Ecology, 2. Microbial Ecology, 3. Plant Molecular Biology, 4. Advanced Plant Physiology, 5. Taxonomy and Diversity of Angiosperms, 6. Development and Reproduction of angiosperms, 7. Plant Biotechnology, 8. Plant Genetics and Cytogenetics, and 9. Lower plants.

Abbreviation: BOT – Botany; C – Core Course; O – Open Course

Study Tours/Field Trips of Students: Name of Teachers in-charge: Prof. N. Venugopal and Dr. H. Kayang; Places of visit: Mumbai, Goa, Bangalore, Mysore and Kolkatta;

Duration: 19 days from January 11-29, 2009.

Purpose of visit: To undertake Botanical studies of interest and institutes of higher learning of Botany to get an idea of recent trends of researches that are being carried out at different places in the country.

Seminars/Conferences/Symposia/Extension programmes etc.:

Organized:

The Department conducted a Refresher Course on "Recent Development in Plant Sciences" in the Department from 13th October to 4th November, 2008. Prof. M. S. Dkhar was Course Coordinator. A total of 30 participants were selected for the course, however, only twenty participants participated in the course, of which 7 were from Assam, 7 from Meghalaya, 3 from Mizoram and 1 each from Nagaland, Uttar Pradesh and West Bengal.

Prof. S.K. Barik organized an ICIMOD International Workshop on 'Access and Benefit Sharing of Biodiversity: Strengthening Interaction among Scientists and Media' at Hotel Pinewood, Shillong on 15-16 December, 2008, which was funded by ICIMOD, Kathmandu.

Prof. Uma Shankar organised (i) the Second Workshop on 'Mapping and Quantitative Assessment of Geographic Distribution and Population Status of Plant Resources of Eastern Himalayan Region' of DBT funded project, New Delhi at NEHU on December 12-13, 2007 and (ii) Third Workshop on "Herbarium Techniques" of DBT, New Delhi funded project at NEHU on February 23 -24, 2009.

Attended:

Prof. A. K. Misra attended (i) 2nd International Conference on Trends in Cellular and Molecular Biology held at Jawaharlal Nehru University, New Delhi during January 5-7, 2008 and delivered invited lecture on 'Overview of molecular biology of actinodizal symbiosis, and (ii) National Seminar on Exploitation, Utilization and Strategy Action plan for sustainable management of plant resources held at Department of Botany, Guwahati University, Guwahati during February 27-28, 2009 and delivered invited lecture on 'Establishing the evolutionary relationship.

Prof. S. K. Barik attended (i) Regional workshop on "Climate change and its impact on Mountain Ecosystems in Eastern Himalayas" organized by ICIMOD at Shillong during 11th-12th March, 2008 and presented an invited and thematic paper on "Climate Change and Distribution of threatened categories of plants in north-east India", (ii) ABS International Workshop in Kathmandu on 26 June, 2008 organized by ICIMOD and delivered a talk on ABS in north-east India, (iii) 96th Indian science Congress on 5th January, 2009 and presented a paper on Technology development status and delivery mechanisms in forestry in India as a lead invited speaker in the Agriculture Section, (iv) ABS International Workshop 11-13 June, 2008 in Kathmandu

organized by ICIMOD and presented a paper on ABS in north-east India. (v) Climate change workshop, 27 September, 2008 at Agartala organized by Centre for Media Studies, Delhi and Tripura Pollution Control Board and presented a paper on Climate change and Biodiversity and presented a paper on Implications and adaptive strategies for climate (vi) Climate change leadership workshop, 18 November, 2008 at Kaziranga organized by LEAD India and presented a paper on Technology development status and delivery mechanisms in forestry in India as a lead invited speaker in the Agriculture Section of 96th Indian science Congress on 5th January, 2009, (vii) presented a paper on 'Developing Small and Medium Forest Based Entrepreneurship in Meghalaya: Lessons for future' and (viii) All India Principal Chief Conservator of Forests and Forest Development Agency Nodal Officers Conference held at New Delhi on 21st December, 2008, organized by Ministry of Environment and Forests, Govt. of India.

Prof. Uma Shankar attended (i) the National Symposium on "Plant Resources of India: linking conservation, livelihood and culture" held at Sri JCBM College, Shringeri during March 14-15, 2008 and presented an invited talk on "Biodiversity of northeastern region of India: assessment and mapping" and chaired a Technical Session on "Threats to Conservation of Plant Resources" (ii) Young Scientists of Asia Conclave on "Pressing Problems of Humankind: Energy and Climate – First Meeting of Concerned Young Scientists" held during January 15-17, 2009 at JNCAR, Jakkur, Bangalore organized by the TWAS & JNCASR. and delivered and invited Talk on "Quantifying and mapping plant resources of north-eastern region of India for conservation under changing climate".

Dr. Papiya Ramnujam attended workshop on Development and optimization of combined Plant/microbes technologies for Bioremediation of soils contaminated with hydrocarbons and heavy metals, organized by Department of Biotechnology, Government of India and Government of Australia. (29th September – 1st October, 2008), Guwahati, India.

Dr Y. Kumar presented (i) a paper on Plant Diversity of Meghalaya with reference to traditional Indigenous Knowledge in the International Seminar on Multidisciplinary Approach in Angiosperms Systematics held at Botany Department, University of Kalyani, Kalyani, West Bengal during 11 -13 October, 2008, (ii) a paper on Diversity of the genus *Dioscorea* (yam) in Ri Bhoi District of Meghalaya, North East India at National Seminar on Exploitation, Utilization and Strategy Action plan for sustainable management of plant resources held at Department of Botany, Guwahati University, Guwahati during February 27-28, 2009.

Dr S. Kumaria delivered (i) an invited lecture on 'Micropropagation of some commercially important dendrobates of North-East India' during the National Conference on Orchid Science and Society, Bangalore, 10-12 April, 2008 and (ii) presented two papers (posters) on '*Corybas purpureus*, a rare, endemic and threatened orchid of Meghalaya' and 'Orchids of Meghalaya: An Overview' during the National Conference on Orchids: Science and Society, Bangalore, 10-12 April, 2008.

Shiny C. Sangma and Chrungoo, N. K. attended National Symposium on Frontiers in Biocomplexity and Biodiversity of Plants, March 14-15, 2008, NEHU, Shillong and presented a paper entitled Isolation and computational analysis of the 5' regulatory region of legumin gene from buckwheat (*Fagopyrum esculentum* Moench).

Venugopal, N, Ralte, L and Singh A. K. attended a poster presentation on Endosymbiotic association of Cyanobacteria in *Hydrobryum griffithii* Tul. (Podostemaceae) at the 96th Indian Science Congress held at NEHU, Shillong on 3 – 7 January, 2009.

Wympher Langstang and N. Venugopal attended the 96th Indian Science Congress held at NEHU, Shillong on 3 – 7 January, 2009 and presented a poster on *Gaultheria fragrantissima*: Medicinal and winter green oil yielding plant growing in Meghalaya.

Lalchhanhimi and N. Venugopal attended the 96th Indian Science Congress held at NEHU, Shillong on 3 – 7 January, 2009 and presented a poster presentation on Anomalous secondary phloem formation in *Castanopsis indica* (Fagaceae).

Preeti Ahuja and N. Venugopal attended 96th Indian Science Congress, Shillong held at NEHU, Shillong during 3-7th January, 2009 and presented a poster on Reproductive biology of endemic and endangered medicinal plant *Panax pseudoginseng* Wall. Differentiation of embryo sac, endosperm and pollen viability.

Publications:

Published in India

Kayang, H., B. Kharbuli, and D. Syiem, 2008. *Gaultheria fragrantissima* Wall: An untapped economic plant species of Meghalaya. *Natural Product Radiance*, 7: 400.

Hynniewta, S.R. and Y. Kumar. 2008. Herbal remedies among the Khasi Traditional healers and village folks in Meghalaya. *Indian Journal of Traditional Knowledge*, 7:581-586.

Hynniewta, S.R. and Y. Kumar. 2008. Traditional plant wraps for plastic bags: A lesson from North East, India. *Journal of Non Timber Forest Products*, 15:211-217.

Kumar, Y., H.J. Syiemlieh, and S. Sirgh, 2008. Vegetation Cover and Plant species of degraded Landscape in the Extremely Wet Cherrapunji Area, North Eastern India. *Trans. Inst. Indian Geographers*, 30: 111 -124.

Barik, S.K., E.K. Kharlyngdoh and H.B. Naithani, 2009. Taxonomic Identity, Ecological Niche and Distribution of Two restricted Range Bamboo Species of Meghalaya – *Phyllostachys manii* gamble and *Sinarundinaria griffithiana* (Munro) C.S. Chao & Renvoize. *Indian Forester*, 135: 67-77.

Choudhury, H., S. Kumaria, and P. Tandon, 2008. Induction and maturation of somatic embryos from intact megagametophyte explants in Khasi pine (*Pinus kesiya* Royle ex. Gord.). *Current Science*, 95: 1433-1438.

Dohling, S., S. Kumaria and P. Tandon, 2008. Optimization of nutrient requirements for asymbiotic seed germination of *Dendrobium longicornu* Lindl. and *D. formosum* Roxb. *Proc Indian Natn Sci Acad*, 74: 167-171.

Tandon, P., S. Kumaria, and I. Nongrum, 2009. Conservation of plant genetic resources of Northeast India. *Indian Journal of Traditional Knowledge*, 8: 29-34.

Bhowmik S. S. D., S. Kumaria, S.R. Rao, and P. Tandon, 2009. High frequency plantlet regeneration from rhizomatous buds in *Mantisia spathulata* Schult and *Mantisia wengeri* Fischer and analysis of genetic uniformity using RAPD markers. *Indian Journal of Experimental Biology*, 47: 140-146.

Kayang, H., B. Kharbuli, and D. Syiem, 2009. *Litsea cubeba* Pers: An untapped economic plant species of Meghalaya. *Natural Product Radiance*, 8: 5.

Shankar U., 2008. Blooming potential of the detached shoots of *Cephalotaxus griffithii* Hook. f. *Current Science*, 95: 320-321.

Lalruatsanga, H. and N. Venugopal, 2008. Post-fertilization developments in Ovules of *Hydrobryum griffithii* Tul (Podostemaceae). *J. Swamy Bot. Cl.*, 4: 59-66.

Lalruatsanga, H. and N. Venugopal, 2008. Development of stamen in *Polypleurum wallichii* Warm. (Podostemaceae) Growing in North East India. *J. Swamy Bot. Cl.*, 4: 67-72.

Published Abroad

Mitsuteru, S., P Tandon, , M. Ishikawa and T. Toyomasu, 2008. Development

of a new vitrification solution, VSL, and its application to the cryopreservation of gentian axillary buds. *Plant Biotechnol. Rep.*, 2: 123 – 131.

Barik, S.K. and S.K. Mishra, 2008. Assessment of the Contribution of Forest to the Economy of the Northeastern States of India. *The International Forestry Review* (U.K.), 10: 349-361.

Upadhaya, K., H.N. Pandey, S.K. Barik, and R.S. Tripathi, 2008. Organic Matter, N and P Dynamics of Fine and Coarse Roots in Humid Subtropical Forest Ecosystem Exposed to Disturbance in Meghalaya, Northeast India. *Malaysian Journal of Soil Science*, 12: 45-60.

Matevž, L., B. Urška, I. Kreft, N.K. Chrungoo, and R. Marjana, 2008. Mycorrhizal status and diversity of fungal endophytes in roots of common buckwheat (*Fagopyrum esculentum*) and tartary buckwheat (*F. tataricum*). *Mycorrhiza*, 18: 309-315.

Das, M.C., S. Kumaria, and P. Tandon, 2008. *In vitro* propagation and conservation of *Dendrobium lituiflorum* Lindl through Protocorm-Like Bodies. *J. Plant Biochemistry & Biotechnology*, 17: 177-180.

Das, P. and H. Kayang, 2008. Stamp Pad ink, an Effective Stain for Observing Arbuscular Mycorrhizal Structure in Roots. *World Journal of Agricultural Sciences*, 4: 58 -60.

Hynniewta, S.R. and Y. Kumar, 2008. Ethnobotanical note on the use of *Stereocaulon macrocephalum* Mill. Arg., in Meghalaya. *Bulletin of British Lichen Society*.

Lalfakzuala, R., H. Kayang, and M.S. Dkhar, 2008. The effects of fertilizers on soil microbial components and chemical properties under leguminous cultivation. *American-Eurasian Journal of Agricultural & Environmental Sciences*, 3: 314 – 324.

Baishya, R., S.K. Barik, and K. Upadhaya, 2009. Distribution pattern of aboveground biomass in natural and plantation forests of humid tropics in northeast India. *Tropical Ecology*, 50: 295-304.

Kamei, J., H.N. Pandey, and S.K. Barik, 2009. Tree species distribution and its impact on soil properties, and nitrogen and phosphorus mineralization in a humid subtropical forest ecosystem of northeastern India. *Canadian Journal of Forest Research*, 39: 36-47.

Books/Book chapters/Proceedings

Darlong, V., S.K. Barik, , B.K. Tiwari, , C. Kumar, and S. Phanbuh, (Eds.).

2008. *Livelihoods from Forestry in northeast India*. ISBN No. 978-81-904940-69. Cognet-Bhabani Offset and Imaging Systems Pvt. Ltd., Guwahati on behalf of NERCORMP, Shillong, pp. 98.

Darlong, V., A. Jamir, S.K. Barik, B.K. Tiwari, D.Choudhury, and V. Nakro, 2008. *Harmonizing Jhum in Northeast India with PGS Organic Standards*. ISBN 81-87437-03-0 NERCORMP and RCNAEB, Shillong, pp. 43.

Tandon, P. and P.K. Gupta, 2008. Quality and relevance of higher education. *University News*, 46: 14-22.

Barik, S.K. and V.T. Darlong, 2008. NRM Policy environment in Meghalaya. In: Darlong, V., S.K. Barik, B.K. Tiwari, C. Kumar, and S. Phanbuh, (Eds.) *Livelihoods from Forestry in northeast India*. NERCORMP, Shillong.

Funds received from agencies other than NEHU: Source	Amount (in Rs. Lacs)
CAS grant	64.88
DBT1	196.29
DRDO	03.82
MoEF	01.00
WAPCOS	18.07
NMPB	9.70
Total	319.49

Infrastructure facilities:

Following equipments/facilities were added for improvement of infrastructure to the Department during 2008-09

Presentation Lectern & Switcher (Podium)

For Seminar Hall = Rs. 2, 55,937.50

Chairs & Revolving Stools = Rs. 3, 25,895.00

Demineralization Plant = Rs. 84,375.00

Spares for Heto ultrafreezer = Rs. 16, 124.00

Wall Mounted Cup Board made for 12 labs. = Rs. 1, 40,400.00

R & Modification Leitz Microscop = Rs. 51,469.00

School of Life Sciences

Provision for improvement of floor by laying Antiskid floor tiles etc.	=	Rs. 19, 26,724.00
Repair of Inverter	=	Rs. 64,000.00
Pipset Transferpette	=	Rs. 1, 32,536.00

Research projects:

On going

Mission for Quality Planting Material Production and Utilization for the North East, Prof. P.Tandon (Coordinator), Prof. S.K. Barik (PI), DBT, Rs. 52.0 Lakhs.

Species recovery programme for *Nepenthes khasiana*, *Mantisia spathulata*, *Nymphaea tetragona*. Prof. P. Tandon (PI), Prof. N. K. Chrungoo (Co-PI), Dr. S. Kumaria (Co-PI), DBT, Rs. 8.84 Lakhs.

Mass propagation of *Jatropha* spp. of Northeast India, Dr. S. Kumaria (PI), Prof. P. Tandon (Co-PI).

Development of molecular markers for characterization of accessions of buckwheat (*Fagopyrum* spp) and quinoa (*Chenopodium* spp), two important underutilized crops from Indian Himalayas. Prof. N. K. Chrungoo (PI), Prof. P. Tandon (Co-PI), DBT, 28.17 (Co-PI), DRDO, Rs. 3.82 Lakhs.

Mapping and quantitative assessment of geographic distribution and population status of plant resources of Eastern Himalayan region, Prof. Uma Shankar (Coordinator), DBT.

The impact of coal mining on water quality and microbial communities of Jaintia Hills district, Meghalaya, Dr. H.Kayang (PI), MoEF, Rs. 1.0 Lakhs.

Conservation of *Panax* species in north-east India: Characterization of niche and genetic variability, mapping of potential distributional area, establishment of field gene bank and micropropagation, Prof S. K. Barik (PI), Prof.P. Tandon and Prof. A. K. Misra (Co-PI), DBT, Rs. 48.9 Lakhs.

Ecological Studies on Teesta and Kameng river catchments in Sikkim and Arunachal Pradesh, Prof. S. K. Barik, (PI), WAPCos, Mins. of Water Res. Govt. India, Rs. 8.55 Lakhs.

Micropropagation of some medicinally, important orchids of Northeast India, Dr. S. Kumaria (PI), UGC, Rs. 5.87 Lakhs.

Net work project on development of database on the medicinal plants of the Indian Himalayan region, Prof. S. K. Barik (PI) Prof. N. K. Chrungoo, Prof. Uma Shankar and Prof. V. Tandon (Co-PI), NMBP, Rs. 9.70 Lakhs.

Development of integrated genetic linkage map and marker assisted selection in tea Prof. A. K. Misra (PI), DBT, Rs. 6.38 Lakhs.

New Projects

Studies on diversity and productivity of algal communities from some selected streams of Meghalaya and the effect of anthropogenic activities, Dr. P. Ramnujam, (PI), UGC, Rs. 6.87.

Role of Earthworms in soil microbial diversity and leaf litter breakdown in two forest stands Meghalaya, Dr. M. S. Dkhar (PI), Dr. H. Kayang (Co-PI), UGC, New Delhi, Rs. 2.988 Lakhs.

Ecological Studies of Maw Hu, Dibbin, Kameng and Tawang River Catchments in Meghalaya and Arunachal Pradesh, Prof. S.K. Barik (PI), Dr. K. Upadhaya, (Co-PI) WAPCOS, Rs.9.52 Lakhs.

DBT Rural Bio-Resource Complex for North- East India, Prof. P. Tandon (Coordinator), Prof. S.K. Barik (PI), DBT, Rs. 52.0 Lakhs.

Impact of NERCORMP-IFAD Intervention on Livelihood of forest dependent people in North-East India, Prof. S.K. Barik (PI), IFAD-NEC, Rs.10.0 Lakhs.

Ecological Survey for Lachung HE Project, Prof. S. K. Barik (PI), WAPCOS, Rs. 3.90.

Completed

Ecorestoration strategies for sacred forests of Meghalaya, Prof. S.K. Barik (PI), GB Pant Institute of Himalayan Environment & Development, Rs. 6.7 Lakhs.

Environmental Impact Assessment of IFAD Project, Prof. S.K. Barik (PI), NERCORMP, Rs. 4.5 Lakhs.

Studies on forest fragmentation and its impact on population ecology of threatened and ethno medicinal plant species of Khanchendzonga Biosphere Reserve, Sikkim, Prof. S. K. Barik (PI), MoEF, Rs. 22.0 Lakhs.

Conservation of Plant Diversity of Northeast India with Special Reference to Rare and Endangered Plants, Prof. P. Tandon (PI), DBT, Rs. 38.0 Lakhs.

Academic Collaboration:

The Department has been collaborating with the following organizations:

Prof S. K. Barik (i) continued Academic collaboration with ICIMOD, Kathmandu through workshops and exchange visits and (ii) worked as Community Forestry and NRM Expert in Indo-German NRM project in Tripura in collaboration with GOPA and kfw, Germany.

Prof A. K. Misra is collaborating with Tea Research Association Tocklai and the energy Research Institute (TERI), Dehradun.

Prof Uma Shankar is collaborating in a DBT funded project on Mapping biodiversity in northeastern region of India with NERIST, Itanagar, Assam University, Silchar, RFRI, Jorhat, IBSD, Imphal, Nagaland University, Tripura University and Mizoram University, Aizawl.

Honours/Awards/Recognition:

Prof. P. Tandon was awarded Padma Shree by the President of India for the year 2009.

Prof. P. Tandon was awarded (i) Millennium Plaques of Honour during the 96th Indian Science Congress held at NEHU during January 3 -7, 2009, and (ii) Professor R.N. Tandon Memorial Lecture Award (2008) of National Academy of Sciences, India.

Prof. P. Tandon was appointed as (i) Member, Scientific Advisory Committee to the Cabinet, Government of India, (ii) Member, Board of Governors, National Institute of Technology, Srinagar, J&K, (iii) Member, Himalayan Biodiversity Centre for Excellence, Himachal Pradesh University, Simla, (iv) Chairman, Research Advisory Committee, National Research Centre for Orchids, Pakyong, Sikkim, (v) Member, Research Council, North East Institute of Science and Technology, Jorhat, (vi) Member, Working Group XI Five-Year Plan North Eastern Council, Shillong, (vii) Member, Vision NER – 2020 of the North Eastern Council, Shillong, (viii) Member, Governing Council of the North Eastern Space Application Centre (NESAC), Barapani, (ix) Member, National Academic Planning Committee of the 30th Indian Social Science Congress, (x) Member, Working Group of Eleventh Five-Year Plan of the Indian Space Research Organisation, Bangalore, (xi) Member, Task Force, Bioinformatics, Department of Biotechnology, Ministry of Science and Technology, Government of India, (xii) Member, Scientific Advisory Committee of Institute of Bioresources and Sustainable Development, Ministry of Science and Technology, Government of India,

Imphal, (xiii) Member, Expert Group for the scheme on 'Assistance to Botanical Gardens and Centres of Ex-situ Conservation, Ministry of Environment and Forests, Government of India, (xiv) Member of Academic Bodies of several Universities, and (xv) Visitor's Nominee, Academic Council, Assam University, Silchar.

Prof A. K. Misra was nominated as Editorial Board Member, The Open Biomarkers Journal, Bentham Sci. Publ., USA.

Prof. S. K. Barik was appointed (i) as a Member of the Expert Committee of DBT's Species Recovery Programme, (ii) as a Member of the Technical Advisory Expert Committee on Biodiversity of MoEF, and (iii) continued as a Member of the SEAC under EPA Act, 1986 appointed by MoEF.

Panna Das (Supervisor: H. Kayang) was awarded the Best Poster presentation entitled "First report of brown spot disease of *Citrus* spp. caused by *Alternaria* spp. at 96th Indian Science Congress, held at NEHU, Shillong during January 3-7, 2009.

Other Activities:

Prof A. K. Misra acted as a resource person and delivered lectures in UGC Refresher Course organized by Department of Zoology, Guwahati University, Guwahati.

Prof N. Venugopal delivered lecture on "Secretion of digestive enzymes in the glands of some Insectivorous plants of North East India" on 13th November 2008, in the Zoology Department, NEHU, Shillong-22.

Prof S. K. Barik organized (i) several training programmes and evaluated the NRM activities of IFAD project in north-east India, (ii) organized several training programmes and workshops for forest officers and JFM members under Regional Centre, NAEB work programme, (iii) developed successful SMFE pilot model under Regional Centre, NAEB work programme, and (iv) worked as Community Forestry and NRM Expert in Kfw-GTZ, Germany - Tripura NRM project, (v) presented a paper on Climate change and Biodiversity in Climate change workshop on 27 September, 2008 at Agartala organized by Centre for Media Studies, Delhi and Tripura Pollution Control Board, (vi) worked as Sectional Secretary, Agriculture and Forestry, and Convener of Virtual Farmers' Congress, and two other sessions on Biodiversity and Disaster Management (Seventh and Eighth Sessions) in the 96th Indian Science Congress held at NEHU, Shillong.

Dr S. Kumaria developed Technology for the transfer, hardening and establishment of *in vitro* raised orchids to women folk of the region.

Prof. Uma Shankar delivered a talk on "Natural disaster management" in "Inter-Service Course for Primary School Teachers" held during May, 2008 at KV NEHU, Shillong. National Symposium on 'Plant Resources of India: Linking Conservation, Livelihood and Culture' held during March 14-15, 2008 at Shri JCBM College Sringeri, Karnataka and delivered and invited Talk on "Biodiversity of north-eastern region of India: assessment and mapping", and also delivered a Talk on "Application of geographical information system (GIS) in ecology" in Refresher Course on 'Frontiers in Plant Sciences' held during November 3-24, 2007 at NEHU.

DEPARTMENT OF ZOOLOGY

Head : Professor R. N. K. Hooroo
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E-mail : rnknehu@hotmail.com; rnk@nehu.ac.in

Thrust Area of Research: The Department is engaged in research under the thrust area "Faunal Diversity and Ecophysiology" in various disciplines such as (i) Diversity of helminthes and nematodes in N. E. region, and bioprospection of antihelmintic efficacy of plants used in traditional medicine, (ii) Biodiversity of freshwater zooplankton and fishes and limnological studies in N.E. region, (iii) Adrenergic signal transduction in pineal gland, hormonal regulation of oxidative metabolism, and breeding biology of endangered fishes, amphibians and birds, (iv) Mode of action of cisplatin an anticancer drug, and efficacy of putative anticancerous plants from N.E. region, (v) Biodiversity, ecology, breeding, and developmental biology of amphibians from N.E. region, (vi) Biochemical adaptations to nitrogen, carbohydrate, protein and oxidative metabolism, and nitric oxide signaling under various environmental stresses in air-breathing fishes, and (vii) Biodiversity of insects in N.E. region, and plant-based bio-pesticides, antidiabetic and anti-diarrheal compounds.

Brief Statement of Academic Activities: The Department offers M. Sc. and Ph. D. courses. During the year, 27 students were admitted in M.Sc. programme. The Department organized the "20th National Congress of Parasitology" and two day "Special Lecture Series" under the DSA-UGC scheme. Five students of the Department got employment in Colleges and Universities. The Department organized

the 32nd Refresher course on "Recent Advances in Zoology". The Department has completed the third year of DSA scheme under the UGC Special Assistance Programme to promote higher research with special reference to the N.E. region. Further, the Department received a special grant of Rs. 30.00 lacs in the second phase from the UGC to upgrade the existing infrastructural facilities for the M.Sc. classes and the research laboratories. During the financial year 2008-09, the Department received grants of about Rs. 2.00 crores under extramural research projects sponsored by the DST, DBT, DAE-BARC, DIT and DoE&F. All these projects have a direct relevance to the socio-economic development of the N.E. region. The Department is actively participating in the research focus "Biosciences" under UPE programme from UGC to North-Eastern Hill University. Seven research scholars received Rajiv Gandhi National Fellowship, seven research scholars received the UGC Meritorious Fellowship and two research scholars have been awarded directly with the CSIR-SRF. All the Faculties and the research scholars from this Department actively participated in the "96th Indian Science Congress", which was hosted in this University during January 3-7, 2009.

Faculty:

Professors	:	V. Tandon, M.Sc. (Hons.), Ph.D. (Panj.) B. K. Sharma, M.Sc. (Hons), Ph.D. (Panj.) B. B. P. Gupta, M.Sc./ Ph.D. (BHU) S. B. Prasad, M.Sc./ Ph.D. (BHU) R. N. K. Hooroo, M.Sc./ Ph.D. (NEHU) B. Kharbuli, M.Sc./ Ph.D. (NEHU) N. Saha, M.Sc./ Ph.D. (NEHU) S. N. Ramanujam, M.Sc./ Ph.D. (NEHU)
Readers	:	A. K. Yadav, M.Sc. (Agra), Ph.D. (NEHU) A.S. Dixit, M.Sc. (Gorakh), Ph.D. (BHU) B. Roy, M.Sc. (NBU), Ph.D. (NEHU) B. Keshan, M.Sc./Ph.D. (Cal.)
Lecturers	:	S. Choudhury, M.Sc./Ph.D. (NEHU) S. R. Hajong, M.Sc./Ph.D. (NEHU)

Visiting Professors/Fellows/Scholars: Following important Professors/ Scientists of repute visited the Department and delivered invited lectures:
Prof. (Mrs.) Kasturi Dutta of Jawaharlal Nehru University delivered a special lecture entitled "Dynamics of hyaluronan binding protein I mediated signaling

School of Life Sciences

cell death and survival". Prof. K. Murlidhar of Delhi University delivered a key note address entitled "Evolving nature of biology research: implication for undergraduate teaching". Prof. R. Michael, former Professor and Head of this Department delivered a special lecture entitled "NEHU-A reminiscence: remarks of environmental biology". Dr. K.V. S. Rao of International Centre of Genetic Engineering and Biotechnology delivered a lecture entitled "Information processing by intracellular signaling netways". Prof. P. Nath of Visva Bharati University delivered a lecture entitled "Duality of catfish gonadotropin". Prof. M. A. Akbarsha of Bharatidasan University delivered a lecture entitled "Epididymus: Structure, function and novel response to reproductive toxicants". Prof. Indraneil Das of University of Malaysia, Sarawak delivered a lecture entitled "Studies on ecomorphology of Bornean frogs"

Student intake:

Enrolment capacity: M.Sc. – 28; Ph.D. – Variable.

Actual Admission:	SC/ST/Gen	Male/Female	Meghalaya	Outside	Total		
M. Sc. -	24	3	14	13	10	17	27

Degrees Awarded:	SC	ST	Gen	Male	Female	Total
M Sc.	-	21	4	10	15	25
Ph. D.	-	4	1	4	1	7

Ph. D.

Lalthlamuana Pachuau, "Limnological studies in Mizoram with special reference to biodiversity and ecology of planktons". Supervisor: Prof. B. K. Sharma

Proforma Suchiang, "Studies on effects of environmental stress on thyroid hormones and testicular activity in the air-breathing fish, *Clarias gariepinus*". Supervisor: Prof. B. B. P. Gupta.

G. Rosangkima, "Studies on antitumor and antimutagenic potentials of some plants of Meghalaya and Mizoram". Supervisor: Prof. S. B. Prasad.

Temjenmongla, "Anthelmintic efficacy of some indigenous plants used in the traditional remedies of Naga tribes". Supervisor: Dr. A. K. Yadav.

Allen J. Freddy, "Extent of DNA damage induction by raw betel nut extract in mammalian cells and loss of heterozygosity at chromosome 9p in oral and esophageal carcinoma in rar betel-nur chewers". Supervisor: Prof. A. Chatterjee.

Placement of Students:

Dr. Larisha Lyndem as a Reader in Zoology, Visva Bharati University, Santiniketan,

Ms. Lucy M. Jyrwa as a Lecturer in Zoology, Shillong College, Shillong,

Dr. S. Khongwir as a Lecturer in Zoology, Shillong College, Shillong,

Mr. Damon A. Rabha as a Lecturer in Zoology, St. Edmunds College, Shillong,

Dr. P. Suchiang as a Lecturer in Zoology, Tura Government College, Tura.

Courses conducted: The following courses were conducted:

M. Sc. Semester I: Cell Biology & Immunology; Biological Chemistry & Molecular Biology; (CBCS cours Genetics & developmental Biology.

M. Sc. Semester II: Biological Chemistry; Genetics and Developmental Biology; Parasitology (Old course) and Entomology.

M. Sc. Semester III: Ecology and Environmental Biology; Endocrinology and (Old course) Reproductive Biology; Aquatic Biology and Fisheries.

M. Sc. Semester IV: Biosystematics & Evolution; Techniques in Biology and (Old course) Biometrics; Special Paper*.

*Special Papers offered: Biochemical Adaptation and Metabolic Regulation, Developmental Biology and Differentiation, Endocrinology and Reproductive Physiology, Insect Physiology, Helminth Parasitology, Limnology, Molecular Cell Biology & Immunology, and Fish Biology.

Study Tour/Field Trips of Students: As a part of M.Sc. course, Prof. B. Kharbuli and Dr. S. R. Hajong took the M. Sc. (Zoology) 3rd semester students on study tour to Goa, Mumbai and Kolkata, and visited various academic and research institutes relevant to the courses in M.Sc. from 09-28 January, 2009.

Seminars/conferences/symposia etc. organized and attended:

Organized:

20th National Congress of Parasitology, 3-5 November, 2008.

Two day Special Lecture Series on "Faunal Diversity and Ecophysiology" under the DSA-UGC programme, 16-17 March, 2009.

Attended:

Prof. V. Tandon attended (i) the "20th National Congress of Parasitology" at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008 and chaired a session, (ii) the "96th Indian Science Congress" at North Eastern Hill University, Shillong, 3-7 January, 2009.

Prof. B. K. Sharma attended the "96th Indian Science Congress" at North-Eastern Hill University, Shillong, 3-7 January, 2009.

Prof. B. B. P. Gupta attended the (i) 20th National Congress of Parasitology" at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008, (ii) the "96th Indian Science Congress" held at North-Eastern Hill University, Shillong, 3-7 January, 2009, (iii) the "UGC-Academic Staff College Directors' Meet, 20-21 February, 2009 organized by the University Grants Commission, New Delhi at the University of Kerala, Thiruvananthapuram.

Prof. S. B. Prasad attended (i) the "International Conference on Molecular Biology & Biotechnology (ICMBB – 2008) at Banasthali University, Rajasthan, 19-21 October, 2008 and delivered an invited lecture on "Studies on the antitumor and antimutagenic potentials of *Dillenia pentagyna*, a medicinal plant from Mizoram", (ii) the "20th National Congress of Parasitology" at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008, and chaired a session, and (iii) the "96th Indian Science Congress" at North-Eastern Hill University, Shillong, 3-7 January, 2009.

Prof. R. N. K. Hooroo attended (i) the "SERC 2nd School in Herpetology" held at the Wildlife Institute of India, Dehradun, 6-7 June, 2008, (ii) the "20th National Congress of Parasitology" at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008, (iii) the "National Symposium on Current Research in Herpetology" at Department of Zoology, North-Orissa University, Baripada, 29-31 March, 2009 and chaired a session, (iv) the "96th Indian Science Congress" at North-Eastern Hill University, Shillong, 3-7 January, 2009.

Prof. B. Kharbuli attended (i) the "National Conference on Impact of Climatic Factor on Insect Abundance" at Department of Zoology, Madras Christian College, Chennai, 25 October, 2008, (ii) one day exhibition and workshop on "Indigenous Crops" at State Central Library Auditorium, Shillong, 12 September, 2008 and presented a paper on "Biodiversity Conservation: Indigenous crops and plants", and (iii) the "96th Indian Science Congress" at North-Eastern Hill University, Shillong, 3-7 January, 2009.

Prof. N. Saha attended (i) the “20th National Congress of Parasitology” at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008 and chaired a session, (ii) the “96th Indian Science Congress” at North-Eastern Hill University, Shillong, 3-7 January, 2009 and chaired a session in “Animal, Veterinary and Fishery Science section.

Prof. S. N. Ramanujam attended (i) the “20th National Congress of Parasitology” at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008, and (ii) the “96th Indian Science Congress” at North-Eastern Hill University, Shillong, 3-7 January, 2009.

Dr. A. K. Yadav attended (i) the “20th National Congress of Parasitology” at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008, (ii) the “National Workshop on Biotechnology and Parasitology on Sustenance”, 6-8 December, 2008 held at University of Allahabad and conducted field demonstrations to bee-keepers on “New technologies for controlling insect pests of honey bees by entomopathogenic nematodes”, and (iii) the “96th Indian Science Congress” at North-Eastern Hill University, Shillong, 3-7 January, 2009.

Dr. A. S. Dixit attended (i) the DST sponsored SERC School in Chronobiology at the University of Lucknow, Lucknow, 12-25 October, 2008 and acted as a Coordinator, (ii) the “20th National Congress of Parasitology” at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November 2008, (iii) the “96th Indian Science Congress” at North-Eastern Hill University, Shillong, 3-7 January 2009, and (iv) received training at DST-IRHPA unit of biological rhythm research at University of Lucknow, Lucknow, 10-19 February, 2009.

Dr. B. Roy attended (i) the “20th National Congress of Parasitology” at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November 2008, and (ii) the “96th Indian Science Congress” at North-Eastern Hill University, Shillong 3-7 January, 2009

Dr. B. Keshan attended (i) the “20th National Congress of Parasitology” at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November 2008, and (ii) the “96th Indian Science Congress” at North-Eastern Hill University, Shillong 3-7 January, 2009

P. K. Prasad (Supervisor: Prof. V. Tandon) attended (i) the “7th International Conference on Bioinformatics” at National Yang Ming University, Taipei, Taiwan, 20-23 October, 2008 and poster presented a paper on “Use of sequence motifs as barcodes and secondary structures of internal transcribed spacer 2 (ITS2, rDNA) for

identification of the Indian liver fluke, *Fasciola* (Trematoda: Fasciolidae).”, and (ii) “78th Annual session of NASI and Symposium on Recent Developments in Biomedical Research” at Panjab University, Chandigarh, 21-23 November, 2008 and presented a paper entitled “*Paragonimus westermani* (Kerbert, 1878) Braun, 1899 (Digenea: Paragonimidae) and related species in Northeast India and neighbouring countries - Phylogenetic reconstruction using secondary structures of internal transcribed spacer 2 (ITS2, rDNA).

Ksh. M. Singh (Supervisor: Prof. B. B. P. Gupta) attended the “4th Asia and Oceania Conference on Photobiology (AOCP 2008)” at Banaras Hindu University, Varanasi, 24-26 November, 2008 and present a paper entitled “Opposite effects of photoperiod and temperature on circadian rhythms of thyroid hormones and pineal arylalkylamine-N-acetyltransferase (AA-NAT) activity in the fish, *Clarias gariepinus*”.

T. Rongpi (Supervisor: Prof. S.B. Prasad) attended the “19th All Indian Congress of Zoology: Gauhati University, Guwahati, 29–31 December, 2008 and presented a paper entitled “Antitumor potentials of *Dillenia pentagyna* and *Potentilla fulgens* in Dalton’s lymphoma bearing mice”.

A. K. Srivastava (Supervisor: Prof. B. Kharbuli) attended the “International Conference on Entomology” at Punjabi University, Patiala and presented a poster entitled “Anopheline fauna of West Garo Hills District of Meghalaya, India”.

M. M. Devi (Supervisor: Prof. S. N. Ramanujam) attended the “Symposium on Lake 2008: Conservation and Preservation of Lake Ecosystem” at Indian Institute of Sciences, Bangalore, 22-24 December, 2008, and presented a paper entitled “Ichthyodiversity of Meghalaya”.

Papers presented in the “20th National Congress of Parasitology” organized by and held at Department of Zoology, North-Eastern Hill University, Shillong, 3-5 November, 2008:

P. K. Prasad (Supervisor: Prof. V. Tandon) presented a paper entitled “Molecular identification of the Indian liver fluke, *Fasciola gigantica* based on the ribosomal internal transcribed spacer region (rDNA, ITS2). L. M. Goswami (Supervisor: Prof. V. Tandon) presented a paper entitled “Molecular characterization of intestinal fluke, *Artyfechinostomum Sufartyfex* (Trematoda: Echinostomatidae) using PCR amplification of rDNA ITS regions”. J. A. Shylla (Supervisor: Prof. V. Tandon) presented a paper entitled “PCR-based molecular characterization and development of genetic markers of amphistomid flukes (Trematoda: Digenea: Paramphistomata) in Northeast, India”. Malsawmtluangi (Supervisor: Prof. V. Tandon) poster presented a paper entitled

"Occurrence of the Metacestode of *Taenia* sp. and the nematode *Capillaria hepatica* in liver of wild rodents from bamboo growing areas of Mizoram" D. B. Jyrwa (Supervisor: Prof. V. Tandon) poster presented a paper entitled "Molecular characterization of *Lytocestus* spp (Eucestoda: Caryophyllidea) from *Clarias batrachus* (L.) in Meghalaya". S. Thapa (Supervisor: Prof. V. Tandon) poster presented a paper entitled "Spectrum of parasites in edible freshwater fishes of Meghalaya". Lalramliana (Supervisor: Dr. A. K. Yadav) presented a paper entitled "Compatibility of chemical pesticides with locally isolated entomopathogenic nematodes in Meghalaya". Temjenmongla (Supervisor: Dr. A. K. Yadav) presented a paper entitled "Anthelmintic efficacy of *Clerodendrum colebrookianum* Walp. (Verbenaceae) extract against experimental *Hymenolepis diminuta* infections in albino rats"

Papers presented at the "96th Indian Science Congress" held at North-Eastern Hill University, Shillong, 3-7 January, 2009.

M. G. Choudhury (Supervisor: Prof. N. Saha) presented a paper entitled "Expression of inducible nitric oxide synthase under hyper-ammonia stress in the freshwater teleost, *Heteropneustes fossilis*". Jame L. Ghongsngi (Supervisor: Prof. N. Saha) presented a paper entitled "The mud eel *Monopterus albus* upregulates glutamine synthetase enzyme and detoxifies ammonia to glutamine during six days of air exposure".

G. Rosangkima (Supervisor: S. B. Prasad) poster presented a paper entitled "Studies on the ethnomedical value of *Dillenia pentagyna* Roxb". Amenla (Supervisor: Prof. S.B. Prasad) poster presented a paper entitled "Effect of ascorbic acid and cisplatin on endogenous glutathione level in tumor-bearing mice". Saipari Sailo (Supervisor: Prof. R. N. K. Hooroo) poster presented a paper entitled "Studies on the breeding behavior and development of *Nasirana alticola*". K. Biswas (Supervisor: Prof. N. Saha) poster presented a paper entitled "Influence of cell volume changes on protein synthesis in isolated hepatocytes of air-breathing walking catfish (*Clarias batrachus*)". P.S. Longwai (Supervisor: B. Kharbuli) poster presented a paper entitled "Study on seasonal variation of Fe, Zn, Mn, Cu, Ni and Co in *Garra lamta* (fresh water fish) from Kynshi River of West Khasi Hills District, Meghalaya". R. Dominic (Supervisor: Prof. S. N. Ramanujam) poster presented a paper entitled "Effect of *Diospyros variegata* Kunze, a piscicidal plant from the state of Nagaland, on freshwater fishes".

Papers presented at the "19th All India National Zoology Congress" held at Department of Zoology, Gauhati University, Guwahati, 29-31 December, 2008:

T. Rongpi and G. Rosangkima (Supervisor: Prof. S. B. Prasad) presented a

paper entitled "Antitumor potentials of *Dillenia pentagyna* and *Potentilla fulgens* in Dalton's lymphoma bearing mice". Saipari Sailo (Supervisor: Prof. R. N. K. Hooroo) presented a paper entitled "A note on the breeding behavior of some anurans in Mizoram". M. Das (supervisor: Prof. N. Saha) presented a paper entitled "Influence of hypertonic stress on gluconeogenesis in the air-breathing catfish, *Heteropneustes fossilis*". K. M. Brandon (Supervisor: Prof. S. N. Ramanujam) presented a paper entitled "Studies on the diversity of fish fauna in the coal mining and non-coal mining drainages of Jaintia Hills, Meghalaya".

Publications:

Published Abroad

Biswas, K., M.L. Jyrwa, D. Häussinger, and N. Saha, 2008. Influence of cell volume changes on protein synthesis in isolated hepatocytes of air-breathing walking catfish (*Clarias batrachus*). *Fish Physiology and Biochemistry*, DOI 10.1007/s10695-008-9275-5.

Biswas, K., J.L. Khongsngi, , D. Häussinger, and N. Saha, 2009. Influence of cell volume changes on autophagic proteolysis in the perfused liver of air-breathing catfish (*Clarias batrachus*). *Journal of Experimental Zoology*, 311: 115-124.

Das, B., V. Tandon, L.M. Lyndem, A.I. Gray and V.A. Ferro, 2008. Phytochemicals from *Flemingia vestita* (Fabaceae) and *Stephania glabra* (Menispermaceae) alter cGMP concentration in the cestode *Raillietina echinobothrida*. *Comparative Biochemistry and Physiology*, 149: 397-403.

Goswami, L.M., P.K. Prasad, V. Tandon and A. Chatterjee, 2009. Molecular characterization of *Gastrodiscoides hominis* (Platyhelminthes: Trematoda: Digenea) inferred from ITS rDNA sequence analysis. *Parasitology Research*, 104:1485-1490.

Lyndem, L.M., V. Tandon and B. Das, 2008. Anthelmintic efficacy of medicinal plants from Northeast India against hookworms: an *in vitro* study on *Ancylostoma Ceylanicum*. *Pharmacologyonline*, 3: 697-707.

Prasad, P.K., V. Tandon, D.K. Biswal, L.M. Goswami and A. Chatterjee, 2009. Use of sequence motifs as barcodes and secondary structures of Internal Transcribed spacer 2 (ITS2, rDNA) for identification of the Indian liver fluke, *Fasciola* (Trematoda: Fasciolidae). *Bioinformation*, 3: 314-318.

Prasad, P.K., V. Tandon, D. Biswal, L. Goswami and A. Chatterjee, 2008. Molecular identification of the Indian liver fluke, *Fasciola* (Trematoda: Fasciolidae) based on the ribosomal internal transcribed spacer regions. *Parasitology Research*,

103: 1247-1255.

Ramanujam, S.N. and B.K. Ratha, 2008. Effect of alcohol extract of a natural piscicide - fruits of *Zanthoxylum armatum* DC. on Mg²⁺- and Na⁺, K⁺-ATPase activity in various tissues of a freshwater air-breathing fish, *Heteropneustes fossilis*. *Aquaculture*, 283: 77-82.

Rosangkima, G. and S.B. Prasad, 2008. Protective effect of *Dillenia pentagyna* stem bark extract against cisplatin and benzo[a]pyrene-induced mutagenicity in mice. *Canadian Journal of Pure and Applied Sciences*, 2: 349-355.

Rosangkima, G., T. Rongpi and S.B. Prasad, 2008. Role of glutathione and glutathione-related enzymes in the antitumor activity of *Dillenia pentagyna* in Dalton's lymphoma-bearing mice. *International Journal of Cancer Research*, 4: 92-102.

Rosangkima, G., T. Rongpi and S.B. Prasad, 2008. Effect of *Dillenia pentagyna* extract on sialic acid content and agglutinability of normal and tumor cells with concanavalin A and wheat germ agglutinin. *International Journal of Zoological Research*, 4: 203-213.

Roy, B., S. Dasgupta and V. Tandon, 2008. Ultrastructural observations on Tegumental Surface of *Raillietina echinobothrida* and its alterations caused by root-peel extract of *Millettia pachycarpa*. *Microscopy Research and Technique*, 71: 810-815.

Roy, B., S. Dasgupta and V. Tandon, 2008. Ultrastructural observations on *Fasciolopsis buski* and its alterations caused by shoot extract of *Alpinia nigra*. *Microscopy Research and Technique*, 72: 61-66.

Solanki, G.S., A. Kumar and B.K. Sharma, 2008. Feeding ecology of *Trachypithecus pileatus* in India. *International Journal of Primatology*, DOI 10.1007/s10764-008-9234-0.

Yadav, A.K. and V. Tangpu, 2008. Anticestodal activity of *Adhatoda vasica* extract against *Hymenolepis diminuta* infections in rats. *Journal of Ethnopharmacology*, 119: 322-324.

Following sequence were submitted to the Genbank and accession numbers received as per details below:

Saha N., K. Biswas, L.M. Jyrwa, and B. Keshan, 2008. EU797496: *Clarias batrachus*, liver, phosphoenolpyruvate carboxykinase (PEPCK) mRNA, partial cds, 275 bp

Saha, N., K. Biswas, L.M. Jyrwa and B. Keshan, 2008. EU797497: *Clarias*

gariepinus, liver, phosphoenolpyruvate carboxykinase (PEPCK) mRNA, partial cds.

Saha, N., K. Biswas, M. Das and B. Keshan, 2008. FJ409641: *Heteropneustes fossilis*, liver, beta-actin mRNA, partial cds.

Saha, N., M. Das, K. Biswas and B. Keshan, 2008. FJ594279: *Heteropneustes fossilis*, liver, phosphoenolpyruvate carboxykinase (PEPCK) mRNA, partial cds.

Tandon *et al.*, (2008), Sequences submitted to the Genbank and accession numbers received as per details below:

EU887293: *Gastrodiscoides hominis* cytochrome oxidase subunit 1 (COI) gene, partial cds; mitochondrial.

EU887294: *Gastrodiscoides hominis* 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, complete sequence; and 5.8S ribosomal RNA gene, partial sequence.

EU887295: *Gastrodiscoides hominis* 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.

Published in India

Kayang, H., B. Kharbuli and D. Syiem. 2008. *Gaultheria fragrantissima* Wall: An untapped economic plant species of Meghalaya. *Natural Products Radiance*, 7: 400.

Prasad, S.B., G. Rosangkima and T. Rongpi, 2009. Studies on the ethnomedical value of *Dillenia pentagyna* Roxb. in murine model. *Journal of Pharmacy Research*, 2: 243-249.

Ramanujam, S.N. and B.K. Ratha, 2008. Effect of fruit extract of piscicidal plant, *Zanthoxylum armatum*, on respiratory physiology of freshwater fish. *Journal of Scientific Research (BHU)*, 52: 61-69.

Solanki, G.S., A. Kumar and B.K. Sharma, 2008. Winter food selection and diet composition of capped langur (*Trachypithecus pileatus*) in Arunachal Pradesh. *Tropical Ecology*, 49: 157-166.

Book/ Book chapter/Proceedings publications:

Sharma, S. and B.K. Sharma, 2008. Zooplankton diversity in floodplain lakes of Assam, India. *Rec. Zool. Surv. India, Occ. Paper No.* 290: 1-307.

Yadav, A.K. and V. Tangpu, 2008. Therapeutic efficacy of *Bidens pilosa* L. var. *radiata* and *Galinsoga parviflora* Cav. in experimentally induced diarrhoea in mice. Recent Progress in Medicinal Plants. ISBN: 1-9336991-4-0. Vol. 24: Standardization of Herbal & Ayurvedic Formulation. Studium Press, LLC, Houston, USA, pp. 35-45.

Funds received from agencies other than NEHU:

DIT, New Delhi	Rs. 135.00 lacs
Under the DSA Programme of UGC	Rs. 6.54 lacs
Special assistance for infrastructure from UGC	Rs. 30.00 lacs
Ministry of Environment & Forests, New Delhi.	Rs. 22.50 lacs
UGC, New Delhi	Rs. 1.50 lacs
DBT, New Delhi	Rs. 20.00 lacs
DST, New Delhi	Rs. 23.10 lacs
Total	= Rs. 238.64 lacs

Infrastructure facilities: Renovation of research laboratories, and the corridor of whole departmental building.

Research Projects:

Ongoing

All India Co-ordinated Project on Capacity Building in Taxonomy - Helminths and Nematodes (AICOPTAX). MoEF, New Delhi, (IX-X plan period, continuing through XIth plan) Rs. 6.00 lacs per annum. PI: Prof. V. Tandon.

Status of amphistomiasis and molecular taxonomy of amphistome parasites in mammalian livestock in Northeast India. DBT, New Delhi, Rs. 26.00 lacs. PI: Prof. V. Tandon and Co PI: Prof. A. Chatterjee

Bio-Informatics Centre (Sub DIC) DBT, New Delhi (1999- continuing, Deputy Coordinator: Prof. V. Tandon, Rs. 20.00 lacs per annum.

Physiological significance of occurrence/expression of different types of nitric oxide synthases and production of nitric oxide under environmental constraints and pathological conditions in catfish, *Heteropneustes fossilis*. DST, New Delhi, Rs. 22.15 lacs. PI: Prof. N. Saha.

Expression and tissue distribution of different isoforms of nitric oxide synthases

and production of nitric oxide under environmental constraints in air-breathing catfish, *Clarias batrachus*. UGC, New Delhi, Rs. 5.03 Lacs. PI: Prof. N. Saha.

Measurement of radionuclides and trace elemental concentrations and their transfer factors in Environmental Matrices around the proposed Uranium Mining, Milling and Tailing Pond site at K.P. Mawthabah (Domiasiat), West Khasi Hills District, Meghalaya. DAE-BARC, Mumbai, Rs. 47.50 lacs. PI: Prof. B. Kharbuli.

Studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya. DAE-BARC, Mumbai, Rs. 30.00 lacs. PI: Prof. B. Kharbuli.

Role of proximate factor(s) in timing the seasonal breeding in Passeriformes finches of North-East. DST, New Delhi, Rs. 34 Lacs. PI: Dr. A.S. Dixit.

New

North-East Parasite Information and Analysis Centre (NEPIAC): *an in silico approach*". DIT, MCIT, Rs.135.0 lacs. PI: Prof. V. Tandon and Co-PIs: Mr. D. K. Biswal, Information officer, BIC, NEHU, Shillong and Dr. S. Ramachandran, IGIB, New Delhi.

Ichthyofaunal diversity and studies on the biology of certain indigenous ornamental fishes of Meghalaya. MoEF, New Delhi, Rs. 16.50 Lacs. PI: Prof. S. N. Ramanujam.

Molecular aspect of stress endocrinology: cross-talk between signaling molecules and gene expression in fat body and ovary following temperature stress in silkworm, *Bombyx mori*. DST, New Delhi, Rs. 17.05 lacs. PI: Dr. B. Keshan.

Academic/Professional Collaboration:

Prof. V. Tandon is collaborating with Dr. S. Ramachandran, Scientist F, Institute of Genomics and Integrative Biology, Delhi in a DIT-funded research project

Prof. B. K. Sharma undertook work on Biodiversity of Zooplankton in floodplain lakes of Assam in collaboration with Zoological Survey of India, Kolkata/Shillong.

Prof. B.B.P. Gupta collaborated with Prof. R. Spessert, Mainz University, Mainz on clock genes in mammalian retina.

Prof. N. Saha is collaborating with Prof. D. Häussinger, Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich-Heine University of Düsseldorf, Düsseldorf, Germany in the field of cell volume and protein metabolism, molecular mechanism of bile acid excretion and hepatic encephalopathy.

Honours/Awards/Recognition:

Prof. B. K. Sharma was conferred the Fellow of National Environmental Science Academy (FNESA).

P. K. Prasad, Research Scholar (Supervisor: Prof. V. Tandon) was nominated as one of the "Genomic Pioneers for contribution to the field of Genomics" during HUGO's International Human Genome Meeting, Hyderabad, 27-30 September, 2008.

L. M. Goswami, Research Scholar (Supervisor: Prof. V. Tandon) received the Best oral presentation award during the "20th National Congress of Parasitology" at North-Eastern Hill University, Shillong, 3-5 November, 2008.

C. Malsawmtluangi, Research Scholar (Supervisor: Prof. V. Tandon) received the Best poster award during the "20th National Congress of Parasitology" at North-Eastern Hill University, Shillong, 3-5 November, 2008.

Other Activities:

The 32nd Refresher course on "Recent Advances in Zoology" was organized by the Department from 6-28 November, 2008 with Prof. B. Kharbuli as the course coordinator.

The Department felicitated Prof. R. G. Micheal, the founder member and Head of the Zoology Department.

Prof. V. Tandon delivered the "Prof. R. C. Chowdhury Endowment Lecture" at Department of Zoology, Gauhati University, Guwahati.

Prof. B. B. P. Gupta acted as the Honorary Director of Academic Staff College of the University.

Prof. B. Kharbuli is acting as a Director of Sports of this University.

Prof. B. B. P. Gupta was one of the three Local Joint Secretaries and Prof. N. Saha was the Local Sectional Secretary of "Animal, Veterinary and Fishery Science Section" in the "96th Indian Science Congress" held at this University.

V

SCHOOL OF PHYSICAL SCIENCES

Dean : Professor K. Ismail
Telephone : 2722501 (O), 2722610 (O), 2550062 (R), 9436103293 (M)
Fax : 2550486
E-mail : kismail@nehu.ac.in

The School of Physical Sciences consists of Departments of Chemistry, Mathematics, Physics and Statistics and the Centre for Science Education. All the Departments are involved in post-graduate teaching and Ph.D. programmes. Department of Mathematics also conducts M.Phil programme. Every Department has its chosen thrust areas for carrying out the research work. The Centre conducts remedial courses and programmes related to science education, besides being involved in research activity. The faculty members of the School through their significant research contributions have earned recognitions for themselves and also brought substantial amount of additional funds to the Departments. The Departments of Chemistry, Mathematics and Physics get extra support from the UGC's Special Assistance Programme. Many faculty members have collaborative research programmes with other national/international institutions.

DEPARTMENT OF CHEMISTRY

Head : Professor R. H. Duncan Lyngdoh (till 16.2.2009)
Professor B. Myrboh (from 17.2.2009 onwards)
Telephone : 2722601 (O), 9863021710 (M)
E-mail : bmyrboh@nehu.ac.in

Thrust Areas of Research: Chemistry of Surfactants, Theoretical Reaction Kinetics, Dynamics of Excited States, Photocatalysis, Coordination Chemistry, Theoretical Organic Chemistry, Natural Products Chemistry, Synthetic Organic Chemistry, Heterocyclic Chemistry, Organometallic Chemistry.

Brief Statement of Academic Activities : The Department offers the M.Sc. and Ph.D. programmes. 32 M.Sc. and 20 Ph.D. students were admitted to the Department. 3 Students were awarded the Ph.D. degree and 3 students were selected for the Rajiv Gandhi National Fellowship. 5 students were selected for the award of UGC Research Fellowship in Sciences for Meritorious Students (RFSMS). The Department continued to receive funding under the SAP-DSA programme. Individual research schemes funded by DST, UGC, CSIR and DAE were also in progress. Students were taken on study tour. Department arranged one National Seminar and many faculty members attended national and international conferences/symposia/seminars. The Department organized one refresher course.

Faculty:

Professors : K. Ismail, M. Sc., Ph. D. (AMU)
R. K. Poddar, M. Sc., Ph. D. (IIT Kanpur)
B. Myrboh, M. Sc., Ph. D. (NEHU)
R. H. Duncan Lyngdoh, M. Sc. (NEHU), Ph. D. (IIT Madras)
R. A. Lal, M. Sc., Ph. D. (BHU)
K. Mohan Rao, M. Sc. (S.V. Univ.), Ph. D. (IIT Kanpur)

Readers : A. Lemtur, M. Sc., Ph. D. (NEHU)
A. K. Chandra, M. Sc., Ph. D. (Burdwan)
Ghanashyam Bez, M. Sc., Ph. D. (Gauhati)

Lecturers : T. S. Basu Baul, M. Sc. (Jabalpur), Ph. D. (N. Bengal)
R. L. Nongkhlaw, M. Sc., Ph. D. (NEHU)
E. K. Rymmai, M. Sc., Ph. D. (NEHU)
D. P. S. Negi, M. Sc. (Roorkee), Ph. D. (IIT Roorkee)

School of Physical Sciences

S. Mitra, M. Sc. (Vidya Sagar), Ph. D. (IACS)
 H. Askari, M. Sc., Ph. D. (AMU)
 M. K. Sahoo, M. Sc. (Utkal), Ph. D. (Comenius,
 Czechoslovakia)
 Biplab Sarkar, M. Sc. (N. Bengal), Ph. D. (IIT Guwahati)
 Amarta Kumar Pal, M. Sc. (Calcutta), Ph. D. (Kalyani)

Visiting Professors/Fellows/Scholars : Prof. Sudipta Maiti, Deptt. of Chemical Sciences, TIFR, Mumbai delivered a talk on “Toxic Protein Nanoparticles”. Prof. A.K. Mishra, Department of Chemistry, IIT, Madras delivered a talk on “Fluorescence Spectroscopy and its diverse applications: Examples from our Laboratory”. Prof. S. P. Bhattacharyya (IACS, Kolkata) visited the Department as UGC Nominees for the Advisory Committee Meeting of the UGC-DSA-SAP programme.

Student Intake:

Enrolment capacity: M.Sc.: 32 Ph.D.: Variable

Actual Admission :

	SC	ST	OBC	GEN	MALE	FEMALE	Meghalaya/Outside Meghalaya
MSc	-	26	—	06	16	16	32
Ph.D:	02	08	—	10	09	12	08
							12

Degrees Awarded : SC ST Gen Male Female Total

M.S.: 01 10 03 08 06 14

Ph.D: — 02 01 03 — 03

Mr. Cheerfulman Masharing, “Organotin(IV) complexes of Schiff base ligands derived from aminoacetic acid and aminobenzoic acid systems: Synthesis, structure and biological properties” , Supervisor: Dr. T. S. Basu Baul.

Mr. Evergreen K. Rymmai, “Sythesis, characterization and reactivity studies on ζ^5 , ζ^6 -cyclichydrocarbon ruthenium (II) and hdrido ruthenium (II) carbonyl complexes with N-donor ligands”. Supervisor: Prof. K. Mohan Rao.

Mr.A.Murugan, “Studies on paramagnetic and redox properties of some metalloporphyrins”, Supervisor: Dr. Aka Lemtur.

Placement of Students : Mr. Aziz Ahmed, Research Scholar joined IIT, Patna as Junior Scientific Assistant. Mr. K. Kharnaor joined Tura Govt. College, Meghalaya as lecturer. Ms. Icydaly Snaitang joined St. Anthony’s College, Shillong as lecturer. Many M.Sc. students passing out from this Department have been placed as teachers

in different colleges and schools, as scientists in research organizations, and as research scholars in this Department and elsewhere.

Courses conducted:

Semester I – Inorganic Chemistry-I, Organic Chemistry-I, Physical Chemistry-I, Quantum Chemistry, Laboratory Course in Organic Chemistry.

Semester II – Inorganic Chemistry-II, Organic Chemistry-II, Physical Chemistry-II, Molecular Spectroscopy, Laboratory Course in Inorganic Chemistry. Medicinal Chemistry-I, Topics in Organic Synthesis, Computer Programming in Chemistry, Organometallic Chemistry, Bioorganic Chemistry, Chemistry of Surfactants, Solid State Chemistry

Semester III – Inorganic Chemistry-III, Organic Chemistry-III, Physical Chemistry-III, Applications of Spectroscopic Methods, Laboratory Course in Physical Chemistry. Environmental and Analytical Chemistry, Medicinal Chemistry-II, Photochemistry, Bioinorganic Chemistry, Natural Products Chemistry, Principles and Applications of Fluorescence Spectroscopy, Computational Quantum Chemistry.

Semester IV – Inorganic Chemistry-IV. Organic Chemistry-IV, Physical Chemistry-IV, Project Work in Inorganic, Organic and Physical Chemistry.

Study Tour/Field Trips : Prof. R.H. Duncan Lyngdoh took the M.Sc. students of IIIrd Semester for a Study Tour to Mumbai, Goa and Bangalore during the period 14th January 2009 to 1st February 2009. The team visited the National Institute of Oceanography, Goa; Central NMR Facility, Tata Institute of Fundamental Research and Department of Chemistry, IIT, Mumbai; Department of Organic Chemistry, Indian Institute of Science and Raman Research Institute, Bangalore.

Seminars/Conferences/Symposia/Extension Programmes:

Organised

The Department organized a One Day National Seminar on “Coordination Chemistry and its Applications” on 24/03/2009.

Attended

Prof. K. Ismail attended the National Conference on Frontiers of Colloids and Nanostructured Systems held at Manipur University, Imphal (18-20 February 2009) and delivered the keynote address on “Some interesting observations in surfactant systems”

Prof. K.M. Rao attended the National Conference on "Recent Advances in Chemical Research" at Deptt. of Chemistry, Osmania University, Hyderabad (6-7 February 2009) and presented a paper titled "synthesis, structure and spectroscopic studies of Platinum group metal complexes bearing 4-phenyl-3,6-bis(2-pyridyl)pyridazine as a chelating ligand.

Dr. S. Mitra presented a Poster on the topic "Fluorescence Behavior of intramolecular charge transfer probe in bio-mimetic environments" at the International Conference-Fluorescence 2009 at TIFR, Mumbai (16-19 March 2009).

Dr. Biplab Sarkar attended the International Symposium on "Recent Advances in Spectroscopy: Astrophysical, Theoretical and Laboratory at Kodaikanal (28-31st January, 2009) and gave an Invited Talk on "Born Oppenheimer treatment on the excited state of Na₃ Cluster"

Mr. O. G. Singh (Supervisor: Prof. K. Ismail) attended the National Conference on Frontiers of Colloids and Nanostructured Systems held at Manipur University, Imphal (18-20 February 2009) and presented a paper on "Micellization and counterion binding behaviour of mixtures of sodium dioctylsulfosuccinate with TX-100 in aqueous medium".

Publications:

Published in India

Manih R.M. and B. Myrboh, 2009. Synthesis of functionalized diaryl alkanes from azines. *Ind. J. Chem.*, 44 146-151.

Published abroad

Singh, O.G. and K. Ismail, 2008. Micellization behavior of mixtures of sodium dioctylsulfosuccinate with sodium dodecylsulfate in water. *J. Surf. Det.*, 11: 89-96.

Das, D. and K. Ismail. 2008. Aggregation and adsorption properties of sodium dodecyl sulfate in water acetamide mixtures. *J. Colloid Interface Sci.*, 327: 198-203.

Chakraborty, S., P. Sarkhel and R.K. Poddar, 2008. Synthesis, characterization and comparative studies of mono- and dimeric copper (II) complexes containing tripodal ligands. *J. Coord. Chem.*, 61: 260-66.

Marbaniang, D.G., R.K. Poddar and P. Nongkynrih, 2009. Study of the variation and the effect of geochemical composition on the external background radiation level. *J. Env. Monitoring & Assessment*, 152: 223-230.

Mizar, P. and B. Myrboh, 2008. Three-component synthesis of 5:6 and 6:6 fused pyrimidines using KF–alumina as a catalyst. *Tetrahedron Letters*, 49: 5283-5285.

Mizar, P. and B. Myrboh, 2009. Synthesis of substituted 4-(5-Alkyl-thiazol-2-ylmethyl)-3,4-dihydro-2H-1,4-benzoxazines and 5-(2,3-Dihydro-1,4-benzoxazin-4-ylmethyl)-4-methyl-1-phenyl-1H-pyrazol-3-ylamine. *J. Hetero. Chem.*, 46: 39-43.

Mizar, P. and B. Myrboh, 2009. Synthetic studies on KF-alumina catalyzed reaction of substituted and unsubstituted aryl-oxoketene dithioacetals and 1H-pyrazone-5(4H)-one: A convenient synthesis of pyrazole [3, 4-b] pyridine and pyrazolo[1,5-a]pyrimidine. *Tetrahedron Letters*, 50: 3088-3091.

Singh, M.K., N.K. Kar and R.A. Lal, 2008. Synthesis and characterization of manganese(IV) and ruthenium(III) complexes derived from bis(2-hydroxy-1-naphthaldehyde) oxaloyldihydrazone. *J. Coord. Chem.*, 61: 3158-3171.

Lal, R.A., D. Basumatary, A. Kumar and S. Adikari, 2008. Synthesis and properties of mononuclear and binuclear molybdenum complexes derived from bis(2-hydroxy-1-naphthaldehyde) oxaloyldihydrazone. *Spectrochim Acta*, 69, 706-714.

Singh, M. K., Kar N.K., Lal R.A. 2009. Synthesis and structural characterization of manganese (III, IV) and Ruthenium(III) Complexes derived from 2-hydroxy-1-naphthaldehyde benzoylhydrazone. *J. Coord. Chem.*, 62: 1677-1689.

Boag, N.M. and K.M. Rao, 2009. Activation of Metal-Bound ζ^5 -Pentamethylcyclopentadienyl groups to Diels-Alder Addition of Dioxygen and Other Dienophiles. *Chem. Commun.*, 1499.

Gupta, G., K.T. Prasad, B. Das and K.M. Rao, 2009. Ruthenium half-sandwich complexes with tautomerized pyrazolyl pyridazine ligands: Synthesis, spectroscopic and molecular structural studies. *J. Organomet. Chem.*, 694: 2618-2627.

Gupta G., G.P.A. Yap, B. Therrien and K.M. Rao, 2009. Study of novel ζ^5 -cyclopentadienyl and ζ^6 -arene platinum group metal complexes containing N_4 -type ligand and their structural characterization. *Polyhedron*, 28: 844-850.

Prasad, K.T., B. Therrien and K.M. Rao, 2008. Cationic half-sandwich complexes (Rh, Ir, Ru) containing 2-substituted- 1,8-naphthyridine chelating ligands: Syntheses, X-ray structure analyses and spectroscopic studies. *J. Organomet. Chem.*, 693: 3049-3056.

Pachhunga, K., P.J. Carroll and K.M. Rao, 2008. Reactivity study of

cyclopentadienyl osmium(II) bisphosphine azido complexes with activated alkynes and nitriles: isolation of osmium triazolato and tetrazolato complexes by 1,3 dipolar addition. *Inorg. Chim. Acta*, 361: 2025-2031.

Pachhunga, K., B. Therrien and K.M. Rao, 2008. Synthesis of benzene ruthenium triazolato complexes by [3+2] cycloaddition reactions of activated alkynes and fumaronitrile to benzene ruthenium azido complexes. *Inorg. Chim. Acta*, 361: 2294-3300.

Parveen, S., S. Das, A.K. Chandra and T. Zeegers-Huyskens, 2008. Theoretical studies of hydrogen bonding interaction between trimethylamine and substituted phenols. Influence of the substituents on the hydrogen bond properties and vibrational spectrum. *J. Theo. Comput. Chem.*, 7: 1171.

Singh, T.S., S. Mitra, A.K.Chandra, N. Tamai and S. Kar, 2008. A combined experimental and theoretical study on photoinduced intramolecular charge transfer in trans-ethyl p-(dimethylamino)cinnamate. *J. Photochem. Photobiol. A: Chem.*, 197: 295.

Baul, T.S.B., A. Mizar, A.K. Chandra, X. Song, G. Eng, R. Jirasko, M. Holcapek, D. de Vos, A. Linden, 2008. cis-bis{5-[(E)-2-(aryl)-1-diazenyl]quinolato}di-n-butyltin(IV) complexes, ${}^n\text{Bu}_2\text{Sn}(\text{L})_2$: Synthesis and characterization by IR, NMR (${}^1\text{H}$, ${}^{13}\text{C}$, ${}^{119}\text{Sn}$), ${}^{119}\text{Sn}$ Mossbauer and electrospray ionization MS. Crystal structures, assessment of in vitro cytotoxicity. *J. Bioinorg. Chem.*, 102: 1719-1730.

Basu, S., A. Mizar, T.S.B. Baul and E. Rivarola, 2008. ${}^{119}\text{Sn}$ Mossbauer characterization of self assembled organotin(IV) complexes with Schiff bases containing amino acetate skeletons. *Hyperfine Interactions*, 185: 95-102.

Baul, T.S.B., A. Paul, H.D. Arman and E.R.T. Tiekink, 2008. 2-[(E)-(5-tert-butyl-2-hydroxyphenyl)diazenyl]benzoic acid. *Acta Crystallogr.*, E64: 2125.

Pucho, T., A. Nongpiur, S. Tumtin, R. Nongrum and R.L. Nongkhlaw, 2008. Novel one pot synthesis of substituted 1,2,4-triazine. *ARKIVOC (XV)*, 79-87.

Negi, D.P.S. and T.I. Chanu, 2008. Surface-modified CdS nanoparticles as fluorescent probe for the selective detection of cysteine. *Nanotechnology*, 19: 465-503.

Singh, T.S. and S.Mitra, 2008. Fluorimetric studies on the binding of 4-(dimethylamino) cinnamic acid with micelles and bovine serum albumin. *Photobiol. Sci.*, 7: 1063-1070.

Moyon, N.S., T.S.Singh and S.Mitra, 2008. Fluorescence studies on the

photophysical properties and encapsulation behavior of acetaminophen in different environments. *Biophysical Chem.*, 138: 55-62.

Singh, T.S. and S. Mitra, 2009. Fluorimetric study on the charge transfer behavior of trans-ethyl p- (dimethylamino) cinnamate and its derivatives in cyclodextrin cavities. *J. Inclusion Phenomena and Macrocyclic Chemistry*, 63: 335-345.

Mitra, S, 2008. Fluorescence studies on photoinduced intramolecular process in homogeneous and biomimetic environments. *ISRAPS Bulletin*, 20: 23-30.

Sarkar, B. and S. Adhikari, 2009. A rigorous approach to the formulation of extended Born-Oppenheimer equation for three-state system. *Int. J. Quantum Chem.*, 109: 650.

Sarkar, B. and S. Adhikari, 2008. Curl condition for a four-state Born-Oppenheimer system employing the Mathieu equation. *J. Phys. Chem. A*, 112: 9868.

Sardar, S., A.K. Paul, P. Mondal, B. Sarkar and S. Adhikari, 2008. A Quantum-classical approach to the molecular dynamics of butatriene cation with realistic model Hamiltonian. *Phy. Chem. Chem. Phys.*, 10: 6388.

Book Chapter

Chandra, A.K. and M.T. Nguyen, 2009. A Density Functional View: In Chemical Reactivity Theory: Ed. Chattaraj P.K., Chapter 12, Taylor & Francis.

Funds Received from Agencies other than NEHU/UGC:

DST, New Delhi	:	14.00 lakhs
CSIR, New Delhi	:	07.05 lakhs
UGC, New Delhi	:	10.11 lakhs
DAE/BRNS, Mumbai	:	27.00 lakhs
UGC-SAP-DSA Phase-III Programme	:	04.20 Lakhs
Special assistance for infrastructure from UGC	:	30.00 Lakhs

Infrastructural Facilities: The following instruments have been acquired and installed:

Arius UV-Vis Spectrophotometer

LS-55 Spectrometer

School of Physical Sciences

STA6000, TGA/DTS-SCE Thermal Analyser system

400 MIR/FT-IRNMR & Spectrum Softwards

Bry-Air Dihumidifier

Rotary Evaporator with pumps (3)

Computer work stations (3)

CEM focused Microwave Synthesizer

Computational Chemistry softwares

Cyclic voltammeter

Low temperature circulators (3)

Research Projects:

Ongoing

Counterion binding-interfacial property correlation for AOT micelles. Principal Investigator: Prof. K. Ismail. Sponsored by DST, New Delhi.

Synthesis, reactivity and structural studies of complexes of ruthenium and osmium containing $\zeta 5$ and $\zeta 6$ -cyclic hydrocarbons. Principal Investigator: Prof. K. M. Rao. Sponsored by DST, New Delhi.

Studies on the kinetics and mechanism of hydrogen abstraction reactions of halo- carbons with OH Radicals and Cl atoms. Principal Investigator: Dr. A.K. Chandra. Sponsored by DST, New Delhi.

Solid phase intramolecular Wittig reaction using novel triphenylphosphines: a study on synthesis of macrocyclic library. Principal Investigator: Dr. G. Bez. Sponsored by DST, New Delhi.

Exploration on organotin carboxylates as a viable building block for constructing homo and hetero-nuclear supramolecules: Synthesis, structures and biological properties. Principal Investigator: Dr. T. S. B. Baul. Sponsored by DST, New Delhi.

Construction and multisite commissioning multiple fluorescence correlation spectrophotometers (a single molecule biophotonic tool), Co-Investigator: Dr. S. Mitra. Sponsored by Deptt. of Information & Technology, Govt. of India, New Delhi.

New

Design, synthesis and application on chiral Iminium salts for catalytic

asymmetric epoxidation of olefins. Principal Investigator: Dr. G. Bez. Sponsored by UGC, New Delhi.

Spectroscopy and dynamics of photoinduced processes in homogeneous and biomimetic environments. Dr. S. Mitra. Sponsored by UGC, New Delhi.

Comparative studies on degradation and mineralization of some azo dyes by radiolysis and photolysis" Principal Investigator: Dr. M.K. Sahoo. Sponsored by BRNS, Mumbai.

Completed

Asymmetric epoxidation of olefins with oxone in presence of *in situ* generated iminium salts from chiral aldehydes & amines. Principal Investigator: Dr. G. Bez. Sponsored by CSIR, New Delhi.

Investigation of photophysical and photocatalytic properties of colloidal semi-conductors (under SERC Fast Track proposal for Young Scientists). Principal Investigator: Dr. D. P. S. Negi. Sponsored by DST, New Delhi.

Spectroscopic characterization of intramolecular charge transfer type polarity sensors and their use in the study of protein-surfactant interaction. Principal investigator: Dr. S. Mitra. Sponsored by CSIR, New Delhi.

Academic/Professional Collaborations:

Prof. K. M. Rao has academic collaboration with Dr. Therrien Bruno, Institut de Chimie, Université de Neuchâtel, Switzerland. Prof. R.H. Duncan Lyngdoh is in collaboration with Prof. H.F. Schaefer, Director, Centre for Computational Chemistry, University of Georgia, USA. Dr. A.K. Chandra has research collaboration with the Quantum Chemistry Group of the University of Leuven, Belgium. Dr. S. Mitra has research collaboration with Prof. N. Tamai (Kwansei Gakuin University, Japan), Prof. S. Mukherjee, (IACS, Kolkata), Dr. S. Kar (ChemGen Pharma International, Kolkata), Prof. S. Maiti (TIFR, Mumbai) and Dr. H. Pal (BARC, Mumbai). Dr. M. K. Sahoo is collaborating with Dr. D. B. Naik, BARC, and with Prof. B. S. M. Rao, National Centre for Free Radical Research, Pune University. Prof. R.A. Lal has academic collaboration with Dr. Arvind Kumar, Academia Simca, Institute of Chemistry, Taiwan. Dr. Biplab Sarkar has academic collaboration with Prof. S. Adhikari, IACS, Kolkata. Prof. K. Ismail has research collaboration with Dr. P.A. Hassan and Dr. V. K. Aswal of BARC, Mumbai.

Other Activities:

Dr. S. Mitra attended a workshop on "Fluorescence Correlation Spectroscopy" at

TIFR, Mumbai (7-24 March, 2009). Dr. Biplab Sarkar attended the National Symposium on Quantum Chemistry, Soft Computing and Optimization at IACS, Kolkata (04-05 April 2008). Dr. D.P.S. Negi attended the Expert Committee meeting and monitoring workshop in the area of Chemical Sciences organized by DST, New Delhi at CECRI, Karaikudi (8.12.2008). Mr. T.S. Singh (Supervisor: Dr. S. Mitra) participated in the SERC School on Laser Spectroscopy and Applications in Science and Technology at BARC, Mumbai (3-21 November 2008). Mr. Jahar Dey (Supervisor: Prof. K. Ismail) visited BARC, Mumbai (July 20 to July 25 2008) under the DST project and carried out Dynamic Light scattering experiments on surfactant systems in collaboration with Dr. P.A. Hassan. Mr. Jahar Dey (Supervisor: Prof. K. Ismail) again visited BARC, Mumbai (December 19, 2008 to March 15, 2009) under NER-DSTFIST exchange programme and carried out Dynamic Light Scattering and Small-Angle Neutron Scattering experiments on systems containing sodium dioctylsulfoscuccinate in collaboration with Dr. P.A. Hassan and Dr. V.K. Aswal. The Department conducted a Refresher course in Chemistry for College and University teachers during the period from 10th September to 1st October 2008 with Prof. R.A. Lal as the Course- Coordinator. Dr. Amarta Kumar Pal joined the Department as Lecturer in March 2009.

DEPARTMENT OF MATHEMATICS

Head : Professor H. K. Mukerjee
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Thrust Areas of Research: Algebra, Algebraic and Differential Topology, Cosmology, Number Theory, and Oceanography.

Brief Statement of Academic Activities : The Department continues to give quality and rigorous M.Sc. / M.Phil. and Pre Ph.D. courses of different subjects of mathematics like Algebra, Analysis, Complex Function Theory, Differential Equations, Linear Algebra, Mechanics, Number Theory, Numerical Analysis and Computer Programming, Oceanography, Relativity and Cosmology, Topology, Algebraic Topology, Differential Topology, Commutative Algebra, Character theory, p -adic analysis. The Department

conducted regular seminar and colloquia on the topics in the thrust areas of research. Students of the Department obtained UGC/CSIR NET/NBHM Junior Research Fellowships, NET Lecturership, NBHM M.Sc. Scholarship and UGC Merit Scholarship.

Faculty:

- Professors : S.S. Khare, D. Phil. (Alld.) (on deputation as PVC-Tura)M.B. Rege, Ph. D. (Bombay)Prof. H.K. Mukerjee, D. Phil. (Alld.)
- Readers : P.K. Saikia, Ph. D. (Wisconsin)C.R. Mondal, Ph. D. (V. B.)A.K. Das, Ph. D. (NEHU)M. Ansari, Ph. D. (Gorak)K. Singh, Ph. D. (Gorak)
- Lecturers : A.M. Buhphang, Ph. D. (NEHU)A.T. Singh, M. Phil. (NEHU)Sanghita Dutta, Ph. D. (NEHU)John Paul Jala Kharbih, M.Sc. (NEHU)

Visiting Professors/Fellow/Scholars: Prof. Richard Canary, Univ. of Michigan, USA gave a series of talk on Uniformizing geometrically finite surfaces as points in $\text{Teich}(S) \times \text{Teich}(S)$, end-invariants for geometrically finite groups, Ending Lamination Conjecture: 3 different proofs/approaches to the ELC. Prof. Kenneth Bromberg, Univ. of Utah, USA, gave a series of talk on Hyperbolic Dehn surger, Ending Lamination Conjecture. Prof. Saul Schleimer, Univ. of Warwick, U.K. gave a series of talk on Definition and hyperbolicity of the curve complex, and Hierarchies. Prof. Christopher Leininger, Univ. of Illinois, USA, gave a series of talk on Foliations and Laminations, foliation on torus, singular foliation on higher genus surface, laminations and its connection with foliations. Space of measured laminations $ML(S)$, $PML(S)$, Action of MCG on $ML(S)$, $PML(S)$. Nielsen-Thurston classification of surface diffeomorphisms. Prof. Kasra Rafi, Univ. of Connecticut, USA, gave a series of talk on Introduction to train-tracks, Teich - Teichmuller Theory, decomposition of surface into pairs of pants, rigidity of 3-holed sphere, and Fenchel Nielsen co-ordinates of Teichmuller space. Prof. Mahan Mj, RKM Vivekanand Univ., Howrah, gave a series of talk on Definition of MCG, Dehn twists and intersection numbers, Pleated surfaces, geometrically tame ends and realizing laminations, Local Connectivity of Limit Sets (Application). Prof. Siddhartha Gadgil, IISc, Bangalore, gave a series of talk on Hyperbolic geometry of surfaces, Geodesics and Isometries of H^2 , H^3 ; PSI_{2R} and PSI_{2C} as the respective group of isometries, Alexander trick, Birman exact sequence, generators and relations of MCG. Prof. Pablo

Ares Gastesi, TIFR, Mumbai, gave a series of talk on Teich - Teichmuller Theory - Analytical aspects. Prof. Harish Shesadri, IISc, Bangalore, Gave a series of talk on Mostow Rigidit. Prof. P. Sankaran, IMSc, Chennai, gave a talk on Residual finiteness and chaotic action on the rationals. Prof. D.N. Verma, TIFR, Mumbai, gave a talk on Reflection Groups as a Route to Hyperbolic Geometry and more; how much more? Prof. A.R. Shastri, IIT Mumbai, gave a talk on Irrudicibility of products. Prof. Satya Deo, HRI, Allahabad, gave a talk on Mapping class groups of some nonmetrizable manifolds. Prof. Mahuya Dutta, ISI Kolkata, gave a talk on Chern character forms of universal connection are universal.

Student intake:

Enrolment capacity: M.Sc.: 36, M. Phil.: unspecified, Ph.D.: unspecified

Actual Admission:

	SC	ST	Gen	Male	Female	Meghalaya	Outside Meghalaya
M.Sc.	-	29	7	23	13	33	3
M. Phil.	-	1	8	2	7	2	7
Ph.D.	1	-	3	4	0	2	2

Degree Awarded

	SC	ST	Gen	Male	Female	Total
M.Sc.	-	8	2	4	6	10
M.Phil.	-	-	6	6	-	6

Sekhar Jyoti Baishya, "Generalizations of Certain Number Theoretic Concepts Via Finite Groups-A Survey", Supervisor: Dr. A.K. Das.

Shri Ddeepak Subedi, "A Study of Some p -adic Series", Supervisor: Dr. P.K. Saikia.

Nitin Sarma, "Dark energy and Cosmic Acceleration-A Review", Supervisor: Late Prof. S.K. Srivastava.

Courses conducted :

M.Sc. 1st Semester: Linear Algebra, A.M.E.S., Analysis I, Classical Mechanics, O.D.E.

M.Sc. 2nd Semester: Analysis II, Algebra I, Topology, P.D.E.

M.Sc. 3rd Semester: Computer Programming, C.F.T., Diff. Geometry, Topics in Algebra.

M.Sc. 4th Semester: E.N.T., C.N.A., Ring Theory, Algebraic Number Theory.

Study tours/Field trips: Twenty M.Sc. IV semester students led by Dr. A. M. Buhphang went for 18 days study tour starting from 19th January 2009. They visited the National Institute of Oceanography, Dona Paula, Goa to understand the Oceanographic studies carried out by the Institute and the applications of Mathematics to these studies. They also visited the Goa University. In Kolkata, the students visited the Calcutta University and the Indian Statistical Institute.

Seminars/Conferences:

Organized

The Department organized an International Workshop and Conference on Surface Mapping Class Groups and Related Topics from 16th June, 2008 to 28th June, 2008.

The Department has organized weekly Colloquium and Seminars in the topics: Number theory congruences, Character theory of finite groups; Rational Homotopy theory; Mapping class groups, curve complexes, computational algebraic topology.

Prof. S.S. Khare organized a special Session of "Teaching of Mathematics for School Teachers" during Annual Conference of Indian Science Congress 2009 held at Shillong from June 3 to June 7, 2009.

The Department organized a special session of "Beauty of Mathematics" at St. Edmund's College, Shillong, sponsored by NASI, N.E. Local Chapter Shillong on 25th June, 2008 under "International Workshop and Conference on Surface Mapping Class Groups and Related Topics".

Attended

Prof. M.B. Rege attended a conference on 'Some recent developments in mathematics' held at Gauhati University, Guwahati in September 2008 and presented a paper entitled 'A decade of research in Armendariz rings'. He attended the International Workshop and Conference on Surface Mapping Class Groups and Related Topics" held at Mathematics Department NEHU, Shillong from June 16th to June 28th, 2008. He participated in the training and selection camp for the International Mathematical Olympiad 2008 held at Homi Bhabha Centre for Science Education, Mumbai, in April-May 2008 and delivered seven lectures. He chaired a session on "The beauty of Mathematical Problem-Solving in a programme organized in St. Edmund's College, Shillong, in June 2008. He participated in a training programme for Indian National Mathematical Olympiad candidates at the Indian Statistical Institute,

Kolkata and delivered four lectures in December 2008.

Prof. H.K. Mukerjee delivered an invited lecture entitled "On Mapping class Groups and Related Topics" in the "Annual Meeting of the Ramanujan Mathematical Society at IIT Kanpur in April, 2008. He delivered an invited talk entitled "On Classification of Heegaard Splittings" in the "Workshop on Foliations", at Indian Statistical Institute, Kolkata during Nov 26 to Dec. 6, 2008. He delivered an invited talk entitled "On Homological Techniques in some Real World Problems" in the Annual Conference of the Indian Mathematical Society, at Allahabad during Dec. 27 to Dec. 30, 2008. He delivered an invited talk entitled "On Advances in the Classification Problems of Higher Dimensional ($\dim > 4$) Manifolds" in the Annual Indian National Science Congress at NEHU, Shillong, during Jan. 3 - 7, 2009. He delivered two lectures on Heegaard Splittings and Dehn Surgery in the International Workshop and Conference on Surface Mapping Class Groups and Related Topics" held at Mathematics Department NEHU, Shillong from June 16th to June 28th, 2008. He delivered an invited talk entitled "On Some Current Trends in Algebraic and Differential Topology" in the National Conference on Advances in Mathematics (NCAM 2008), Gauhati University, during September 4-7, 2008.

Prof. S.S. Khare gave four invited talks on "How to make mathematics interesting in the class room" in the "Orientation programme for Master Resource persons of N.E. states on teaching of Science and Mathematics" organized by; NERIE, NCERT, Shillong, in June 2008. He gave an invited talk on "Fractal Geometry and its Applications" in the International Workshop and Conference of Surface Mapping Class Groups and Related Topics" organized by the Department of Mathematics, NEHU, Shillong, in June, 2008. He gave a talk on "Mathematics can be fun" in the special session on "Beauty of Mathematics" at St. Edmund's College, Shillong, sponsored by NASI, India, N. E. Local Chapter Shillong on 25th June, 2008. He gave one hour invited talk on "Differintegration and its Applications" at Gauhati university in Sept. 2-008. He gave four invited talks on "Some interesting aspects of Mathematics" in the "Workshop on Training of Mathematics Secondary; School Teachers" conducted by NERIE, Shillong in Sept., 2008. He gave a talk on "How to remove Math Phobia" as Guest of Honour in "Training Programme on content cum methodology of teaching mathematics for Higher School Teachers" conducted by NERIE at Shillong College, Shillong in October, 2008. He gave two talks on "Fractional differentiation and integration and their applications" in the Refresher Course in Mathematics in Dec. 2008, conducted by the dept. of Mathematics, NEHU, Shillong. He gave a talk on "Fun with Mathematics" in the special session of "Teaching of Mathematics for School Teachers" during Annual Conference of Indian Science

Congress, 2009 held at Shillong from June 3 to June 7, 2009. He gave a talk on "Bounding of specific manifolds" in Boston University in January, 2009. on "Bounding of specific manifolds" in Boston University in January, 2009.

Publications:

Singh, K.K., 2008. Propagation of plane magnetogasdynamics shock wave in an exponential medium with heat conduction and variation heat flux. *South East Asian J. Math. & Math. Sc.*, 6: 101-113

Singh, K.K., 2007. Propagation of a magnetogasdynamics Cylindrical shock wave in a self gravitating, radiative and rotating gas with variable density. *J. Nat Acad. Math.*, 21: 129-145.

Vishwakarma, J.P., G. Nath , K.K. Singh, 2008. Propagation of shock waves in a dusty gas with heat conduction, variation heat flux and exponentially varying density. *Phys. Soc.*, 78: 11.

Mondal, C.R., 2008. Shallow-water waves due to oscillatory pressure distribution on a running stream. *Bull. Cal. Math. Soc.*, 100: 301-310.

Mondal, C.R., 2008. Propagation of long waves due to travelling wind stresses on a rotating ocean. *Bull. Cal. Math. Soc.*, 100: 473-470.

Mondal, C.R., 2009. Shallow-water waves in a rotating ocean. *Bull. Cal. Math. Soc.*, 101: 1-10.

Fund received from agencies other than NEHU:

DAE – NBHM	: Rs. 8.00 lakhs
DST – FIST	: Rs. 22.20 lakhs
UGC – SAP	: Rs. 18.49 lakhs

Research Projects:

Ongoing

Some Classification Problems in Higher and Lower Dimensional Topology" Principal Investigator: Prof. H. K. Mukerjee. Sponsored by DAE – NBHM, Mumbai.

Academic/Professional collaboration: The Department has collaboration with Assam University, Silchar.

Other activities: The Department organized a Refresher Course in Mathematics during Dec. 1 – 22, 2008 with Dr. P.K. Saikia, as the Course Coordinator. Following

School of Physical Sciences

Teachers from the Department delivered lectures as resource persons: Dr. P.K. Saikia, Dr. A.K. Das, Dr. K.K. Singh, Prof. H.K. Mukerjee. Dr. P. Saikia has finished writing the Comprehensive Book on Linear Algebra to be published by the Prentice Hall of India. Dr. K.K. Singh, Dr. M. Ansari, Dr. A.K. Das, Dr. A. M. Buhphang and Shri A. Tiken Singh attended the International Workshop and Conference on Surface Mapping Class Groups and Related Topics” held at the Mathematics Department NEHU, Shillong from June 16th to June 28th, 2008. Dr. K.K. Singh and Dr. M. Ansari attended a two days Workshop on “E-learning with focus on Educational Internet Domain” organized by the Centre for Distance Education, NEHU, Shillong and Distance Education , IGNOU New-Delhi from 18-19th March 2009. Dr. M. Ansari participated in the National Workshop on “Rainwater Harvesting, Flood control and Integrated Water management in North-East India” organized by the Department of Anthropology, NEHU, Shillong in collaboration with the society for Indian Medical Anthropology, Mysore from October 16-17, 2008. Dr. M. Ansari participated in the workshop on ‘High performance computing organized by the Centre for Development of Advanced Computing (C-DAC) Pune and computer Centre, NEHU, Shillong from March 03- 06, 2009. Dr. M. Ansari participated in the workshop on “Research Methodology and Matlab organized by The Centre for Adult and Continuing Education, NEHU, Shillong from 23rd March to 30th March 2009.

DEPARTMENT OF PHYSICS

Head : Professor P. N. Pandita
Telephone : 2722801 (O), 2550078 (R)
E-mail : ppandita@nehu.ac.in

Thrust areas of research: Solid State Physics, High Energy Physics, Laser Physics, and Nuclear Physics.

Brief statement of academic activities: The main academic activity of the Department has been teaching of M.Sc.(Physics) courses. In addition to teaching, members of the faculty have been engaged in guiding research for Ph.D. scholars as well as carrying out their research projects. The faculty members visited various reputed national and international institutions to carry out their research collaborations and giving talks on their research contributions.

Faculty:

- Professors** : P. Shukla, M. Sc. (IIT, Delhi), Ph. D. (Temple)
 Y. S. Jain, M. Sc. (Agra), Ph. D. (IIT Kanpur)
 P. N. Pandita, M. Sc., Ph. D. (Kashmir)
 B. M. Jyawa, M. Sc., Ph. D. (NEHU)
 P. Nongkynrih, M. Sc., Ph. D. (NEHU)
 S. Kumar, M. Sc. (BHU), Ph. D. (Utkal)
 D. T. Khathing*, M. Sc. (Delhi), D. Phil. (Calcutta) * on lien
- Readers** : M. C. Mahato, M. Sc. (Ranchi), Ph. D. (IISc. Bangalore)
 S. S. Khatri, M. Sc., Ph. D. (NEHU)
 Y.N. Tiwari, M. Sc., Ph. D. (Patna), LL.B.(Patna)
- Lecturers** : S. S. Pohlong, M. Sc., Ph. D. (NEHU)
A. Saxena, M. Sc. (Rohil.), M.Phil.(Meerut), Ph.D.(NEHU)

Student intake:

Enrolment capacity: M.Sc. 30

Actual Admission: SC ST Gen Male Female Meghalaya Outside
 M. Sc. (Total 31) 1 26 4 21 10 23 8

Degrees Awarded:

	SC	ST	Gen	Male	Female	Total
M. Sc.	0	12	1	8	5	13
Ph. D.	0	0	1	1	0	1

Placement of Students: The majority of our students after completing M.Sc. (Phys)/ Ph.D. have got teaching jobs in colleges and schools of Meghalaya. Some have joined Ph.D. programme and post-doctoral research.

Courses conducted:

Semester I - Classical Mechanics, Quantum Mechanics I, Mathematical Physics, Laboratory Semester II - Electrodynamics, Electronics, Quantum Mechanics II, Laboratory II

Semester III - Nuclear Physics, Solid State Physics, Atomic and Molecular Physics, Laboratory III, Environment

Semester IV - Thermal Physics, Computational Techniques and Numerical Methods, Computational Techniques-Laboratory, Optional papers on Advanced Solid State Physics, High Energy Physics, Laser Physics, and Nuclear Physics.

Seminars/conferences/symposia/workshops/extension programmes:

Attended

Dr. S.S. Khatri presented a paper entitled "Effect of Microenvironment on Raman Line Shapes" in the 96th Indian Science Congress in North Eastern Hill University, Shillong (January 3-7, 2009).

Prof. Y.S. Jain delivered an invited talk, entitled, "Basic foundation of quantum fluidity" and chaired a session (Physical Science section) in the 96th Session of Indian Science Congress, North-Eastern Hill University, Shillong, January 3-7, (2009). He also presented the following papers in the Indian Science Congress, North-Eastern Hill University, Shillong, January 3-7, (2009): "Basic Foundation of superconductivity", "Untouched aspects of the behavior of systems like quantum-dot, -wire, and well" , "Logarithmic singularity of specific heat of liquid helium- 4 near lambda-transition" "Surface tension and surface thickness of liquid helium-4 at T=0 "Quantum dynamis of OCS molecule embedded in superfluid helium-4, Rovibrational dynamics of N2O in super-fluid helium" "On the momentum distribution of particles in a system of interacting and non-interacting bosons") and "Compressibility and surface tension of liquid He-3".

Publications:

Osland, P., P.N. Pandita and L.Selbuz, 2008. Trilinear Higgs Couplings in the two Higgs doublet model with CP notation. *Phys. Rev.*, D78: 015003.

Basu, R., P.N. Pandita and C. Sharma, 2008. Radiative Neutralino production in low energy supersymmetric models, *Phys. Rev.*, D77: 115009.

Shukla, P., 2008. Dynamics of bootstrap percolation. *Pramana*, 71: 319-329

Reenbohn, W. L., S. Saikia, R. Roy and M.C. Mahato, 2008. Motion dispersions and ratchet effect in inertial systems. *Pramana*, 71: 297-306.

Sahoo, M., S. Saikia, M.C. Mahato and A.M. Jayannavar, 2008. *Physica A*, 387: 6284-6292.

Reenbohn, W. L. and M.C. Mahato, 2009. *J. Stat. Mech.*, P03011-20.

Saikia, S. and M.C. Mahato, 2009. *J. Phys. – Condens. Matter*, 21: 175409.

Marbaniang, D.G., R.K. Poddar and P. Nongkynrih 2009. *J. Env. Monitoring & Assessment*, 152: 223-230

Tiwari, Y.N., 2008. Formation H-atoms in 25 excited state of proton-lithium

and proton-sodium scattering, *Pramana*, 70: 753.

Tiwari, Y.N., S. Chakraborty and A.S Ghosh, 2008. Effects of Mass and electron exchange in H-H scattering. *European Physics Letters*, 83: 43002.

Patra P.K., L.J. Singh and S. Kumar, 2009. Calculation of Strain Energy of Cantilevered Thick Multiwalled Carbon Nanotubes with Varying Forces at the Free End. *J. Comput. Theor. Nanoscience*, 6: 1039.

Book Chapter

Walia D, S.S. Sanabam, A.C. Lyngdoh, A. Saxena and S.M Syiem, 2008. Identifying the Active Fault Zones in the Shillong Plateau Using Geophysical Data, Environmental Data, Environmental Changes and Geomorphic Hazards, Ch. 11, pp177-192, Bookwell, New Delhi.

Funds received from agencies other than NEHU

CSIR	:	Rs.6, 94,667
DAE/BRNS	:	Rs.5, 78,900
DST	:	Rs.2, 00,000

Infrastructure facilities:

High performance computing system

Alpha Guard

X-ray diffraction machine

Air cooled Argon Ion Laser 125 mW

Research Project:

Ongoing

Investigation of electrical conductivity of doped silver halides. Principal Investigator: Prof. Y. S. Jain; Co-investigators Dr. M. C. Mahato and Dr. S. S. Pohlong. Sponsored by DST, New Delhi.

Radon monitoring in groundwater of the Northeastern India region to study the neotectonic activities and health hazard. Principal Investigator: Dr. A. Saxena. Sponsored by BRNS, DAE, Mumbai.

Structural Mapping of the area around South of Tailing pond site, Domiasiat. Co-investigator: Dr. A. Saxena. Sponsored by BRNS, DAE, Mumbai.

School of Physical Sciences

Hydrogeological studies of the proposed uranium mining tailings dam site at Domiasiat. Co-investigator: Dr. A. Saxena. Sponsored by BRNS, DAE, Mumbai.

New

Supersymmetric Models with Extended Gauge and Higgs Sectors. Principal Investigator: Prof. P.N. Pandita. Sponsored by CSIR, New Delhi

Completed

Study of particle motion in noisy Environment. Principal Investigator: M.C. Mahato.

Academic/Professional Collaboration:

Prof. P. N. Pandita has collaboration with (i) Helsinki Institute of Physics, University of Helsinki, Finland, (ii) Institute of Mathematical Sciences, Chennai, India and (iii) Bergen University of Science and Technology, Norway. Prof. P. Shukla has initiated research collaboration on the modelling of magnetic materials with Prof. P.M. Duxbury and his research group at the Department of Physics and Astronomy, Michigan State University, USA. Prof. P. Shukla is also engaged in research collaboration with Prof. T.J. Sluckin of the School of Mathematics, University of Southampton, U.K., on random field methods in physics and biology (supported by a grant from the Royal Society of London). Prof. S. Kumar has research collaboration with Dr. P.K. Patra of Centre for Science Education, NEHU, Shillong and Dr. L.J. Singh of Dept. of Electronics and Communication Engineering, NEHU, Shillong on the mechanical properties of multiwalled carbon nanotubes. Prof. P. Nongkynrih has collaborative research with Dr. V.D. Puranik, and other Scientists of EAD, BARC, Trombay related to radiological impact assessment at Uranium Mining sites in Meghalaya. Dr. M.C. Mahato has collaborative research with Prof. A.M. Jayannavar, Institute of Physics, Bhubaneswar as the Principal Collaborator in the research project "Study of particle motion in noisy environment". Dr. A. Saxena has collaborative research with (i) B.K. Sahoo, and Dr. Y.S. Mayya, EAD, BARC, (ii) Dr. D. Walia, CES, NEHU, and (iii) Dr. P.K. Watal, and Dr. A. Acharya, BETDD, BARC, Mumbai.

Honours/Awards/Recognition: Prof. P. N. Pandita was elected Fellow of the Indian National Science Academy in January 2009.

Other activities: Prof. P.N. Pandita was invited to attend the workshop "Signalling the Arrival of LH Era" at the Abdus Salam ICTP, Trieste, Italy from 8-13 December 2008. Prof. P.N. Pandita visited the Abdul Salam ICTP, Italy and Helsinki Institute of

Physics, Finland during February 2009. Prof. P. Shukla visited School of Mathematics, University of Southampton, U.K. during the period April 15 – June 15, 2008 for collaborative research with Prof. T.J. Sluckin. Prof. P. Shukla visited IMSc., Chennai, during the period January 9 – February 15, 2009. Prof. P. Shukla was invited to visit the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy during the period Jan. 17 to Feb. 18, 2008 and gave a seminar on “Dynamics of k-core percolation”. Prof. Y.S. Jain gave a series of lectures on superconductivity and related aspects in the Department of Physics, Rajasthan University Jaipur during Nov. 10-14, 2008. Prof. Y.S. Jain gave a series of popular lectures organized by IPA Shillong Chapter. Dr. A. Saxena attended a refresher course in Chemistry conducted by the Chemistry Department, NEHU, Shillong from 20th September to 12th October, 2007. The Department organized a Refresher Course for College and University teachers during the period 11th September - 2nd October, 2008. Prof. P. Shukla served as the Sectional Secretary, Physical Sciences Section, 96th Indian Science Congress., NEHU, Shillong, January 3-7, 2009. Prof. P. Shukla served as Member, Board of Advisors, SERC School on Computational Statistical Physics (Dec. 01-21, 2008), IIT Guwahati. Prof. P. Shukla served as Member, Advisory Committee, International Conference (Jan. 05-08, 2009) on “Disorder, Complexity, and Biology”, BHU Varanasi. Dr. S.S. Khatri served as a Member Organizing Committee of the 96th Indian Science Congress, NEHU, Shillong January 3-7, 2009. Dr. S.S. Khatri served as a Member of the Advisory Committee of the National Workshop on Computer Interfacing of physics experiments at St. Edmund’s College, Shillong,. Dr. Y.N. Tiwari attended DAE-BRNS Symposium on Atomic, Molecular and Optical Physics, IUNC, Delhi 10-13 February, 2009.

DEPARTMENT OF STATISTICS

Head : Dr. T. K. Chakrabarty
Telephone : 2722901, 2722902 (O), 9436309433 (M)
E-mail : hodsta@nehu.ac.in

Thrust area of research: Statistical Inference, Design of Experiments, Sample Survey, Statistical Ecology, Medical Statistics and Economic Statistics.

Brief statement of academic activities: The Department offers M. Sc. and Ph. D. programmes. It also offers a wide range of open courses under new CBCS curricula. The courses give emphasis on rigorous training in Statistical computing. The Department provides teaching support to the Department of Zoology for teaching courses such as Biometry and Techniques in Biology. The Department conducted a training programme in Statistical Methods and provided adequate hands on sessions to train the research scholars for data analysis.

Faculty:

Professors : G. Das M. A. (Delhi Univ.), Ph. D. (NEHU)
Readers : M. K. Das, M. Sc., Ph. D. (Dibrugarh)
T. K. Chakrabarty M. Stat. (Agra), Ph. D. (Manipur)
B. K. Gupt M. A (Rohil.), M. Sc. (AMU), Ph. D (Gau)
Lecturers : S. K. Jha M.Sc., Ph.D (Patna)
R. Singh M. Sc., Ph. D (Patna)

Visiting Professors/Fellows/Scholars: Prof. S. S. Handa, Indian Statistical Institute, New Delhi visited the Department on 27th September 2008 and delivered Extension Lecture on 'Six Sigma Quality – An Overview'.

Student intake:

Enrolment capacity: M.Sc.: 15, Ph. D: unspecified

Actual Admission:

	OBC/SC/ST/Gen	Male/Female	Meghalaya	Outside Meghalaya
M. Sc.	- - 10	1 5	6	8
Ph. D.	3	2 1	2	1

Degrees Awarded:

	SC ST	Gen	Male	Female	Total
M. Sc.		6	4	2	6

Placement of students:

Mr. Malsawmtluanga is appointed as Statistical Officer in Mizoram University. Mr. Don Manik Syiem is appointed as Lecturer in Shillong College. Miss. Iaphisha Hynniewta is working as part time lecturer in Shankardev College. Mr. Shongdor Marbaniang and Mr. Jamil Swer have been placed under Directorate of Census Operations, Govt. of India.

Courses conducted:

Semester I - Mathematical Analysis, Linear Algebra, Probability Theory, Distribution Theory I, Distribution Theory II, Distribution, Computing & Programming (Pract).

Semester II - Sample Survey, Statistical Inference I, Linear Models & Regression Analysis, Sample Survey (Pract), Statistical Inference I & Regression Analysis (Pract), Introduction to Probability Theory and Distributions, Introduction to Sample Survey, Linear Programming.

Semester III - Inference – II, Design of Experiments, Time Series Analysis, Inference – II (Pract), Design of Experiments (Pract), Time Series Analysis (Pract).

Semester IV - Multivariate Analysis, Econometrics and Economic Statistics, Environmental Statistics, Optional Paper : Operations Research, Multivariate Analysis (Pract), Econometrics and Economic Statistics (Pract), Operations Research (Pract).

Biometrics (for MSc. IVth Semester students, Department of Zoology).

Techniques in Biology (for IInd Semester students, Department of Zoology).

Seminar/conferences/symposia/workshop/extension programmes :

Organised

Workshop on Statistical Methods in Medical and Health Sciences was organized during February 19 – 21, 2009 in collaboration with Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata.

Attended

Dr. T.K. Chakrabarty presented a paper on “Nonparametric kernel estimation of hazard and density functions from duration of breastfeeding data” in the European Population Conference 2008 held at Barcelona (Spain) during July 9 – 12, 2008.

Dr. B. K. Gupt participated in a Workshop-cum-training program on “Stochastic Modelling and their Applications” under the auspices of DST Centre for Interdisciplinary Mathematical Sciences, B.H.U., Varanasi from 22nd September to 4th October, 2008 and delivered a talk on ‘Model based Allocation of Sample Size in Stratified Sampling’.

Dr. R. Singh presented a paper entitled “Generalized Inverse Regression as a Solution of Multicollinearity” in VI International Symposium on Optimization and Statistics (ISOS-2008) organized by the Department of Statistics and Operation Research, Aligarh Muslim University, Aligarh during 29th – 31st December, 2008.

Publications:

Das, G., A.J. Nath and A.K. Das, 2008. Vegetable phonology of three bamboo species in subtropical humid climate of Assam. *Tropical Ecology*, 49: 85-89.

Das, G., A.J. Nath, A.K. Das, 2008. Above ground biomass, production and Carbon sequestration in farmer management village bamboo grove in Assam, North East India. *Bamboo Science and Culture*, 21:32-40.

Infrastructure facilitates:

Three Statistical Computing Laboratories consisting of 25 Personal Computers, 2 Servers and Statistical Packages: SPSS, MINITAB, SPLUS.

Research Projects:

Ongoing

Comparative study on some selected forest sampling techniques with satellite remote sensing inputs. Project Investigator: Prof. G. Das. Sponsored by Department of Space, Government of India under EOAM (in collaboration with NESAC, Shillong).

Completed:

Allocation of Sample Size for Ratio Estimators in Stratified Sampling under Superpopulation Models. Project Investigator : Dr. B.K.Gupt. Sponsored by UGC.

HIV/AIDS – related knowledge, attitudes and practices. Project Investigators: Dr. T.K.Chakrabarty and Dr. S.K.Jha. Sponsored by United Nations Office on Drugs.

Other activities:

Dr. M. K. Das delivered lectures on Probability Theory and Linear Programming in the in UGC Refresher Course in Mathematics in the Department of Mathematics, NEHU, Shillong, during 15 – 17 December 2008. Dr. T. K. Chakrabarty delivered lectures on Probability Distributions in the in UGC Refresher Course in Mathematics. in the Department of Mathematics, NEHU, Shillong, during 17 – 19 December 2008. Dr. T. K. Chakrabarty acted as a Regional Coordinator for the Workshop on 'Statistical Methods in Medical and Health Sciences' during February 19 – 21 2009 in collaboration with Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata at the Department of Statistics, NEHU, Shillong– 793022. Dr. T. K. Chakrabarty delivered lectures in the Workshop on 'Statistical Methods in Medical and Health Sciences' jointly organized by Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata and Department of Statistics, NEHU during February 19 – 21 2009 at the Department of Statistics, NEHU, Shillong – 793022. Dr. T. K. Chakrabarty also delivered lectures during 26 – 28 February 2009 in a Training Course on "Application of Computer in Biology Teaching and Research" in the Bioinformatics Centre, NERIST, ITANAGAR. Dr. B. K. Gupt participated in a workshop on "Fuzzy Sets and Fuzzy Logic with Applications" organized by the North-East Institute of Science and Technology, Jorhat (Assam) from 30th June to 2nd July 2008. Dr. S. K. Jha delivered a lecture as a Subject – Expert in Special Course on 'Risk based Audit Approach with Quantitative Techniques and Statistical Sampling for SOs and Sr. AOs (Audit)' Organised by the Regional Training Institute (Indian Audit & Accounts Department) Shillong from 22nd to 23rd April 2008. Dr. R. Singh participated in (i) the National Workshop on "Research Methodology and MATLAB" organized by the Centre for Adult and Continuing Education, North Eastern Hill University, Shillong during 23rd – 30th March 2009, (ii) the National Workshop on "E-Learning with Focus on Educational Internet Domain" organized by Centre for Distance Education, North Eastern Hill University, Shillong during 18th -19th March 2009, (iii) the National Workshop on "High Performance Computing" organized jointly by Computer Centre, North Eastern Hill University, Shillong and C-DAC, Pune during 3rd - 6th March 2009, (iv) the National Workshop on "Rainwater Harvesting, Flood Control and Integrated Water Management in Northeast India" organized jointly by the Department of Anthropology, North Eastern Hill University, Shillong and Society for Indian Medical Anthropology, Mysore during 16th -17th October 2008 and (iv) "International Workshop and Conference on Surface Mapping Class Groups and Related Topics" organized by Department of Mathematics, North Eastern Hill University, Shillong during 16th -28th June 2008.

CENTRE FOR SCIENCE EDUCATION

Head :

Telephone :

E-mail :

Thrust area of research:

Brief statement of academic activities: The Center offered Remedial Teaching Programme in Mathematics, Physics & Chemistry to tribal students of Class –XI

Faculty :

Professors : M. M. Singh, Ph. D. (Kuruk)
D. Bhattacharjee, M.Sc. (NEHU), Ph. D. (Warsaw)
M.S. Bisht, M.Sc. (Jodhpur), Ph. D. (Delhi)
Reader : P. K. Patra, M.Sc. (Sambalpur), Ph. D. (NEHU)

Student intake:

OBC/SC/ST/Gen	Male/Female	Meghalaya	Outside Meghalaya
		17	17

Courses conducted :

Remedial Teaching Programme for class XI

Seminars /Conferences/Symposia/Extension programmes etc:

Prof. D. Bhattacharjee attended a workshop on “Disaster Management” organized by National Disaster Management Authority (Govt. of India) New Delhi, Government of Meghalaya, North-Eastern Council and Lady Keane College on the 10-11 June 2008 at Lady Keane College, Shillong.

Prof. D. Bhattacharjee, attended “International Workshop and Conference on Surface Mapping Class Groups and Related Topics (June 16 28, 2008) organized by Department of Mathematics , NEHU, Shillong.

Dr. P.K. Patra, attended workshop on “Research Methodology and MATLAB” in the Centre for Adult and Continuing Education, NEHU, Shillong (March23-30, 2009).

Publications:

Bhattacharjee, D., 2008. On some New Arithmetical Convolutions-I.,

Proceedings of the 2008 International Conference On Theoretical and Mathematical Foundations of Computer Science (TMFCS-08), Florida, USA: 88-94

Infrastructure facilities:

Procured 14 Dell Computers, 3 HP Laserjet printers.

Academic/Professional collaborations:

Prof. D. Bhattacharjee is having research collaboration with Dr. Bhanu Prasad of Florida A&M University, Tallahassee, Florida, USA.

Other activities:

Prof. D. Bhattacharjee acted as a resource person in the Refresher Course in Mathematics for College & University teachers organized by Department of Mathematics, NEHU, Shillong during December 2008.

Dr. P.K. Patra acted as a resource person in the Refresher Course in Physics for College & University teachers organized by Department of Physics, NEHU, Shillong during September 11-October 03, 2008

VI

SCHOOL OF SOCIAL SCIENCES

Dean : Professor R. Borgohain
Telephone : 2723001, 2723002 (O), 2726025 (R) 9436111871 (M)
E-mail : roopa_borg @ yahoo.co.in

The School of Social Sciences consists of the Departments of Sociology, History, Political Science and Centre for Cultural & Creative Studies. Since its inception in 2005, the Department of Law is also attached to the School. The School has been carrying out teaching and research activities for more than 30 years. Inter-disciplinary focus is an important part of the courses offered in these departments. The Department of History, Political Science and Sociology run teaching programmes at the M.A. level. The M.Phil programme is offered by the Department of Sociology and the Department of Political Science. The Centre for Cultural and Creative Studies is successfully running 3 Post-graduate Diploma Courses in Music, Painting and Folkloristics. The Department of Law is presently offering a Five Year integrated B.A. LL.B (Hons.) Degree Course and is now in its fourth year. Departments of History, Political Science, Sociology and Centre for Cultural & Creative Studies offer the Ph.D. programme.

The Faculty and students of the Department of Sociology, History, Political Science and Centre for Cultural & Creative Studies have been successfully carrying out research activities in diverse fields and have addressed important and socially relevant problems, thus making very significant contributions especially in their respective areas of specialization and in keeping with the objectives of the University. During 2008-09, seven students were awarded the Ph.D. Degree. A large number of students clear the NET/JRF exams regularly. The overwhelming majority of the students in the School belong to the Scheduled Tribes of North East India and the numbers of girl students continue to outweigh the number of boys. In order to keep pace with the latest developments in the discipline, all Departments and the Centre have been regularly revising their syllabus. The Department of Sociology has been sanctioned DRS Phase II under Special Assistance Programme of the UGC and the

Department of History has projects under SAP/DSA – Phase I. UGC has approved DRS- I for 5 years under SAP to the Department of Political Science. Currently the Departments of Political Science, History and Centre for Cultural & Creative Studies are carrying out projects under the Scheme of University with Potential for Excellence.

Some faculty members of the School are involved in national and international research projects. Departments and Centre hold regular seminars and workshops which have contributed greatly to the vibrant academic atmosphere in the School, apart from bringing out useful information for policy makers and planners. The placement of students from the School in various organizations has been very encouraging.

DEPARTMENT OF HISTORY

Head : Professor Manorama Sharma
Telephone : 2723019 (O), 2551484, 2726024 (R)
E-mail : manorama50in@gmail.com

Thrust Area of Research: The Department's thrust area is Northeast India. This is studied not as a separate entity but in relation to developments that have taken place at the spatial and temporal levels in South Asia, the regions beyond it and the world at large. The courses offered at the postgraduate level are designed to be socially relevant to the present-day contexts, to enhance the students' understanding of human relations, the interface of various ideas and cultures, and the working of institutions both 'traditional' and 'modern.' The training thus equips them with the necessary skills required at the research level to undertake objective study of their own and 'other' societies and cultures. The thrust area is also reflected in the research of the faculty and scholars working for their doctoral degrees.

Brief statement of academic activities: During the period 1st April 2008-31st March 2009 the History faculty had been involved in several academic and related programmes pertaining to both teaching and research: organizing seminars, field and study tours, conducting the Refresher Course for College / University teachers, and holding dialogues with colleagues engaged in undergraduate and higher secondary teaching within the region. Besides, as part of the UGC-SAP-DSA

School of Social Sciences

programme Professor Bhagwan Singh Josh of the Jawaharlal Nehru University, New Delhi and Professor Sherry Saberwal of Panjab University, Chandigarh had come to the Department to deliver lectures and to interact with the faculty and students.

Faculty

- Professors : D.R. Syiemlieh, M.A, M.Phil, Ph.D. (NEHU) (On Lien as COE, Exam.)
M. Momin, M.A, M.Phil, Ph.D. (JNU)
M. Sharma, M.A (Gau)/Ph.D. (NEHU)
F.A. Qadri, M.A, M.Phil, Ph.D. (Aligarh)
- Readers : C.A. Mawlong, M.A (NEHU) PG Dip., (New Delhi) Ph.D. (NEHU)
V.R. Rengsi, M.A, M.Phil, Ph.D. (NEHU)
T. Gurung Nag, M.A, M.Phil, Ph.D. (NEHU)
A.K. Thakur, M.A, Ph.D. (BU, Muzaffarpur).
S.N. Lamare, M.A, Ph.D. (NEHU)
- Lecturers : A. Passah, M.A., M.Phil, Ph.D. (NEHU)
M S.N. Rahman, M.A, Ph.D. (Calcutta)

Visiting Professors/Fellows/Scholars in the Department:

Visiting Fellows:

Professor, Bhagwan Singh Josh of the Jawaharlal Nehru University, New Delhi, 23rd March - 1st April 2009. His interactions with the students covered areas of secularism and communalism in Indian History. With the faculty, besides interacting on areas of general issues of historical significance and the recent developments in history he delivered a very relevant lecture on the nature of the colonial state in India.

Professor Sherry Saberwal of Panjab University, Chandigarh, 25th March - 31st March, 2009. Her lectures to the students centred on new perspectives of religion and society and the secularism debate in India today. She interacted with the faculty on the topic of media and gender.

Dr. Shashi Joshi, Fellow, Indian Institute of Advanced Studies, Shimla spent some time interacting with the students and faculty of history and delivered an Audio-visual lecture on "Paintings of Jesus Christ in India".

Student Intake:

Enrolment Capacity – M.A : 50 Ph.D : Varies from year to year.

NEHU Annual Report 2008-2009

Actual Admission -	SC/ST/Gen	Male/Female	Meghalaya	Other State	Total
M.A.	0 48 02	16 34	22	28	50
Ph.D.	0 05 07	07 05	05	07	12

Degrees Awarded :

	SC	ST	Genl	Male	Female	Total
M.A.:	0	36	0	15	21	36
Ph.D. :	0	02	0	0	02	02

Ms. B. Lalrinchhani, "Mizo Migration and Gender Relations: A Historical Analysis". Supervisor – Professor Manorama Sharma.

Ms. Ruth M. Lepcha, "The Sikkim Political Agency and the Development of British Policy in the Eastern Himalaya 1889-1914". Supervisor – Professor Mignonette Momin, Joint Supervisor – Professor Imdad Hussain (Rtd.)

Courses Conducted:

Semester I: (New Course): Historical Methods-I; Prehistoric to Ancient Societies; Modern Indian Society; Economy and Society in Ancient India; British Expansion and Imperial Policy in India; Modern Japan; Technology in the Making of Early China; Social Movements in USA.

Semester II: (Old Course): Capitalism and Imperialism; Historical Methods; Modern Japan; Ancient Indian Polity and Society; Colonialism, Imperialism and Economic Change in India; History of the Graeco-Roman Civilization; Colonialism in South East Asia.

Semester II: (New Course): Historical Methods-II; Feudalism; Ancient Indian Polity and Society; Colonialism, Imperialism and Economic Change in India; History of Graeco-Roman Civilization; Colonialism in South East Asia; History of Modern USA; (Open Course): Society, Technology and History: Prehistoric Age to Industrial Revolution.

Semester III: (Old Course) Social and State Formations; Religion and Society in Ancient India; Christianity in Northeast India; Socio-Economic History of Northeast India; Indian Nationalism; Political Ideas and Institutions during the Sultanate Period; Peasant Movements in Modern India.

Semester IV: (Old Course) Perspectives in the History of Northeast India: Sources, Tools and Techniques; Archaeology: Methods and Approaches; Colonialism, Communalism and Secularism; Ancient Indian Art and Architecture; Contemporary

India 1947-2000; Political History of the Mughal Empire (1526-1707); Modern Indian Society.

Study Tours/Field Trips of Students:

Dr. C.A.Mawlong took the students on a field trip to Mattilang Park, Nongpiur, Upper Shillong. This was in connection with Course No. H-204: Archaeology: Methods and Approaches offered at the 4th Semester.

Seminars/Conferences/Symposia/Workshops, etc.

Organised

The Department organized one National Seminar on Interpreting Historical Developments in Northeast India: A Gender Perspective on 26th – 27th February, 2009 (Coordinators: Dr. Tejimala G. Nag & Dr. Amena Passah).

Attended

M. Momin: Annual Conference (29th Session) of the North East India History Association held at Dibrugarh University, Dibrugarh, on 6th – 8th November, 2008. Presented a paper, “Recent Epistemological Assumptions and the History of Northeast India”. chaired an academic session. Presented a paper, “Aspects of Gender in Pre-Colonial Northeast India with special reference to the Brahmaputra Valley and Garo Hills” in the National seminar on interpreting historical development in North east India: A gender perspective.

Manorama Sharma : Participated as Resource Person in the UGC-sponsored National Seminar on “Ethnic Conflict and National Integration in North East India-Problems and Solutions” organized by the Khagarijan College, Nagaon, 24th & 25th October, 2008 and presented a paper entitled “Autonomy, Justice and Women: Reflections on the Gender Perceptions in Ethnicity, and Autonomy”. Also chaired an academic session in the Seminar. delivered the guest lecture entitled “Construction of the Identity of the *Asomiya* Women: An Enquiry into Nineteenth Century Literary Sources” in the National Seminar on “Status of Women in Colonial Assam” organised by the Department of History, Pandu College, Guwahati, and sponsored by the UGC, on 29th & 30th September, 2008. Chaired an Academic panel in the same seminar on 30th September, 2008. Participated in the National Seminar on “Peace in North East Region Through Integration and Assimilation organized by Tezpur University, 18th & 19th September, 2008 and presented a paper entitled, “Historical Realities of Identity and the Politics of Autonomy in North – East India”. Presented a paper entitled, “Social Change and Women: Has She Acquired a New Identity in

North East India?" in the National Seminar on "Social Change in North -East India: Processes and Responses" organised by the Department of Sociology, NEHU, Shillong, 25th & 26th November, 2008. Participated in the International Roundtable on "Food Security and Sustainable Development" organised by the Institute of Development and Communication (IDC), Chandigarh, 7th January, 2009. Delivered the Keynote address in the National seminar on "Interpreting Historical Developments in Northeast India: A Gender Perspective" organised by the Department of History, NEHU, 26th & 27th February, 2009. Attended the 29th Annual Conference of North East India History Association held at Dibrugarh University, Assam from 1st to 3rd November, 2008 and presented paper entitled, "Gender History and the Necessity of a Multidisciplinary Approach." Also chaired an academic session in the same Conference. Presented a paper "Androcentric Approach to Social Analysis in North East India" in the National seminar on "Women in Traditional Institutions and Worldviews" organised by the North East India Studies Programme, Jawaharlal Nehru University, in Manipur University on 13th -15th March, 2009 and also chaired an academic session in the seminar. Presented a paper entitled, "Androcentrism in History Writing in North East India" in the National Seminar on: "Constraints and Challenges to Social Science Research in North East India" organised by the ICSSR-NERC at Shillong on 26th and 27th March, 2009.

F A. Qadri : Attended National Seminar on, "Religion in North East India: Institutional Structure and Practices", 25-25April, 2008, jointly organized by the Department of History, Dibrugarh University and Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata and presented a paper on, "Islam in North East India: Organizational Structure and Practices". Also presided over the third academic session. Attended National Seminar on "Indian History, Historians and Historiography", jointly organized by the Department of History, Manipur University and Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata and presented paper on "Study of Pre-colonial North East India: Some Reflections in Trends and Methods". Also presided over the second Academic Session. Shillong and presided over the first academic session. Attended International Philosophy Day Workshop on 12th December 2008 organized by the Department of Philosophy, NEHU, Shillong and presided over the first academic session. Attended National Seminar on "Interpreting Historical Development in North East India: A Gender Perspective", 26-27th February, 2009 and presided over the fourth academic session.

V.R.Rengsi: Attended the International Seminar on "Exploring the History, Culture and Identity of the Chin Groups" organised by Department of History, Mizoram University, Aizawl, on 13-15 October, 2008, sponsored by Euro-Burma Office,

Brussels, Belgium. Presented a paper "Chin – The Mother Lode of Zo Traditional Society". Attended the UGC-SAP-DSA National Seminar on "Interpreting Historical Development in North East India: A Gender Perspective" on 26-27 February, 2009, organised by the Department of History, NEHU, Shillong. Presented a paper, "Technology and Gender Relations in Mizo Traditional Society" Attended a National Seminar on "Interpreting Historical Developments in Northeast India A Gender Perspective", organised by the Department of History, NEHU, Shillong, on 26-27 February 2009, as part of its SAP-DSA Project, and presented a paper entitled "Gender Relations in Khasi-Jaintia Society as reflected in the Megalithic Tradition".

C.A. Mawlong: Attended a National Seminar on " Interpreting Historical Developments in Northeast India: A gender Perspective", organised by the Department of History, NEHU, Shillong, on 26-27 February, 2009, as part of its SAP-DSA Project, and presented a paper entitled " gender relations in Khasi- Jaintia Society as reflected in the Megalithic Tradition"

T. Gurung Nag: ational Seminar on Social Change in Northeast India, Organized by the Dept. of Sociology, NEHU, Shillong, on 25th -26th November 2008. Paper presented on "*Nepali Migration in Northeast India: A Historical Perspective.*"

A.K. Thakur: Attended International Seminar on: "Exploring the History, Culture and Identity of the Chin Groups" organised by Department of History, Mizoram University, Aizawl, 13-15 October, 2008, sponsored by Euro-Burma Office, Brussels, Belgium. Presented a paper "The Institution of Slavery in the Chin Society: A Study". Attended National Seminar organised by the NEC, Shillong and Department of Hindi, NEHU, Shillong, on "Purvottar Bharat ka Sahitya aur Hindi ki Bhumika", 4-6 June, 2008. Presented a paper, "Purvottar Bharat ki Bhasha avam Sahitya: Hindi Sahitya men Sthan Talasti Sambhavanayan". Attended National Seminar organised by Commission for Scientific and Technological Terminology, New Delhi, and Department of Hindi, NEHU, Shillong, on "Manviki Vishyon men Takniki Shabd Nirman avam Vaigyanik Lekhan" 19-21 September, 2008, as resource person and presented a paper "Purvottar Bharat men Hindi mein Itihas Lekhan – Prachalit Shabdik Arth ka Upayog ya Dharna ka Prayog: Ek Vichar". Maulana Abul Kalam Azad Institute of Asiatic Studies, Kolkata, sponsored National Seminar on "Origin, Migration and the Other Aspects of Culture of Singphos" on 27th – 28th June, 2008, organised at B. College, Guwahati- 29. Presented a paper, Slavery and its Abolition among the Singphos and presided over an academic session. The UGC National Seminar on "Ethnic Conflict and National Integration in North East India – Problems and Solutions", 24-25 October, 2008, organised by Khagarijan College, Nagaon, Assam.

Presented a paper "Interwoven or Partitioned: Relooking the Societies of Arunachal Pradesh" and presided over /an academic session.29th Annual Conference of the North East India History Association, 6-8 November 2008, organized by Department of History, Dibrugarh, Assam. Presented two papers, 1. " Metal Culture in Pre-Colonial Arunachal Pradesh", and 2. "Apatani Textiles: A Study in the Technology and Culture" along with co-author Nako Gambo.UGC-SAP-DSA National Seminar on "Interpreting Historical Developments in North East India: A Gender Perspective" on 26-27 February, 2009, organised by Department of History, NEHU, Shillong. Presented a paper "Slavery in Northeast India: A Study" along with Ms. Laithangpuui.Amena PassahCoordinated jointly the Triennial National Conference on Christianity and the Marginalised Communities in India organized by the Church History Association of India, 5th-7th May 2009, Shillong.

M.S.N. Rahman: Attended 29th Session of North-East India History Association, Dibrugarh University, Assam, 6-8th November, 2008 and presented a paper, "Vaisnavite Muslim Poets in Sylhet Region".

Publications

Journals

Passah, A. 2008 (edited): (i) *Indian Theological Journal*, 2, No. 1, JRTS, Shillong.

Publications in books

Mawlong, C.A., 2009. Christianity and the Megalithic Tradition in the Khasi-Jaintia Hills: A Preliminary Study of the Processes of Deculturation and Enculturation. In: Subba, T.B., *et. al* (eds.), *Christianity and Change in Northeast India*, pp.194-202.

Nag G. and Tejjimala, 2009. Gurkhas as Colliers: Labour Recruitment and Race Discourse in the Coal Mines of Assam. In: T.B. Subba, *et. al* (eds.), *Identity and Nationality of Indian Nepalis: Issues and Perspectives*, Concept Publishing Company, New Delhi, pp.259-273.

Mawlong, C.A., 2009. The Invisible Inscription: Women Missionary and Education of Women 1886- 1905. In: Subba, T.B., *et. al* (eds.), *Christianity and Change in Northeast India*, Concept Publishing Company, New Delhi, , pp.307-320.

Passah and Amena, 2009. Nepalis in Meghalaya: Diaspora and Identity. In: Subba, T.B., *et. al* (eds.), *Indian Nepalis: Issues and Perspectives*, Concept Publishing Company, New Delhi, pp.237-248.

Mawlong, C.A., 2009. Christian Missions in the Khasi-Jaintia Hills: Health Care and Impact on the Society. In: Subba, T.B., et. al (eds.), *Christianity and Change in North East India*, New Delhi, Concept Publishing Company, pp. 203-218.

Qadri, F.A., 2008. Leader of the Afflicted Lovers: Historical Background, Mysticism and Poetry. In: Ahmad, I. (ed.), *Rumi and His Message*, Khuda Bakhsh O. P. Library, Patna, pp. 65-73.

Mawlong, C.A., 2008. People of North East India: Some Reflections from Persian Accounts. *Proceedings of Indian History Congress*, 68th Session, Delhi, pp.475-81.

Qadri, F.A ,2008. Persian Text, Chishti Saints of Bengal and Indian Historiography. In: Chandrashekhar (ed.), *Indo-Persian Studies: Text and Translation*, Delhi University, Delhi, pp.84-94.

Rahman, M.S.N., 2008. Trade and Commercial Activities of Medieval Barak-Surma Valley. *Proceedings of North-East India History Association* (28th Session, Goalpara), Shillong, pp221-228.

Sharma and Manorama, 2008. Locating the Woman in History: The Need for an Imaginative and Sensitive Methodology. In: *Proceedings of North East India History Association* (28th Session, Goalpara,), Shillong, pp.85-93.

Thakur and Kr. Amrendra, 2008. Reconstruction of Surface Communication System in Arunachal Pradesh: An Archaeological Probe. In Dutta, S. and B. Tripathy (eds.), *Sources of History of Arunachal Pradesh*, Gyan Publishing House, New Delhi, pp.219-236.

Thakur and Kr. Amrendra, 2008. Reviving Indigenous Trade in Arunachal Pradesh: Some Aspects of Research and Action. In: Sharma, M. (ed.), *Economy of Arunachal Pradesh: Problems, Performance and Prospect*, Guwahati, DVS Publishers, pp. 112- 123.

Thakur and Kr. Amrendra, 2008. Pre-modern Accommodation of Differences and Modern Innovations: Religion and Society of Arunachal Pradesh. In: Tripathy, B. and S. Dutta (eds.), *Religious History of Arunachal Pradesh*, Gyan Publishing House, New Delhi, pp. 336-358.

Thakur and Kr. Amrendra, 2008. Trade and Culture: Some Reflections on Pre-Colonial Arunachal Pradesh. In: *The Proceedings of North East India History Association*, 27th session at Goalpara in 2007, Shillong, pp. 198-209.

Funds Received from Agencies Other Than NEHU:

Source : ICSR- NERC, Amount : Rs. 50,000/ INSA : Rs. 2.00 Lakhs.

Infrastructure facilities:

Two classrooms were fitted with LCD projectors and computers for use of power points in teaching. A computer laboratory for students with 16 computers has been made ready.

Books in the Departmental SAP Library have been accessioned in relevant accessioning software.

Research Projects:

Ongoing

(i). Projects of individual faculty members under UPE on the themes: "Trade and Markets"; "Migration and Settlement"; and "Society and Culture of Meghalaya".

(ii). Projects of individual faculty members under SAP/ DSA – I on the themes related to studies in North-East India: "Religion and Society"; "Gender History", and "Intellectual History"

(iii). "Technology of the Tribes of North East India with reference to Arunachal Pradesh" Funding Agency : INSA, New Delhi, P.I. : Dr. A.K. Thakur.

Honours/Awards/Recognition: Prof. F.A. Qadri has been nominated by the MHRD, Government of India as Member of the Indian Council of Historical Research, New Delhi for a period of three years.

Other Activities:

The Department conducted a Refresher Course for College/University teachers of the region during November, 2008. The faculty members of History, Political Science and Economics Departments of NEHU and external Resource persons delivered lectures as resource persons. M.Momin Delivered a lecture, "D.D. Kosambi and the Study of Indian History", on the occasion of the Birth Centenary Celebration of Professor D.D. Kosambi, organized by the History Faculty, Women's College, Shillong, on 22nd July, 2008. Gave a talk on "Researches in Northeast India", as part of the interactive programme organized by the Centre for Historical Studies, Jawaharlal Nehru University, New Delhi, under its UGC-SAP-CAS scheme, on 23rd February, 2009.

Manorama Sharma participated as the Resource person in the training

programme on "Gender Mainstreaming in Disaster Risk Management" organized by the Deputy Commissioner's office, Govt. of Meghalaya at Williamnagar on 27th and 28th November, 2008. Delivered six lectures in the UGC-sponsored Refresher Course in History organised by the Academic Staff College, Gauhati University from 29th - 31st January, 2009. Delivered two lectures on "Literature and Social Consciousness" in the UGC sponsored Refresher Course in English, organised by the Academic Staff College, NEHU, on 9th March, 2009. Delivered one lecture on "Gender Justice" in the UGC sponsored Orientation Course organised by the Academic Staff College, NEHU, on 20th March, 2009.

S.N. Lamare wrote, produced and directed a documentary film of 48 minutes' duration entitled "Re-living the Past - Part 1" as part of SAP research project on "Totems, Taboos and Rituals in the Khasi and Jaintia Society", July 2008. Gave a key-note address in Sein Raj Hall, Shillong to commemorate the 146th Death Anniversary of U Kiang Nangbah on 30th December 2008. Completed shooting of a documentary film "Borkhat- The Forgotten Tract", on 28 February 2009.

M.S.N. Rahman delivered a special lecture on Importance of Museum for Historical Studies, at Motinuddin Ahmad Museum, Sylhet, Bangladesh, on 17 October, 2008. Delivered a special lecture on Bengali Novel *Pardeshi* as a Source of Social History in Pre-independent Shillong, at Muslim Sahitya Samsad, Sylhet, Bangladesh, 18 October, 2008. Was Special Guest on the occasion of the release of a Bengali novel *Pardeshi*, on the invitation of the Muslim Sahitya Samsad, Sylhet, Bangladesh, on 18th October, 2008.

DEPARTMENT OF POLITICAL SCIENCE

Head : Professor B. J. Deb
Telephone : 2723035 & 2723036, 9436104329
E-mail : hodpolsc@nehu.ac.in

Thrust Area of research: Contemporary Issues in Indian Politics and North East Politics

Brief Statement of Academic Activities: The Department of Political Science, established in 1974, aims at building an academic community of students, researchers and teachers devoted to an open, critical and analytical study of the discipline with an emphasis on interdisciplinary approach. It also aims at making courses and research work socially relevant and developing in the students an awareness of the basic issues and problems in the discipline so as to equip them intellectually to fulfill these needs. With the strength of 14 faculty members, the department has 100 students on its roll at the M.A. level. The department admits M.Phil scholars every year who undergo course work for one semester followed by dissertation writing on proposals approved by the School Board of Social Sciences. The department also provides research facilities leading to Ph.D. degree.

Faculty :

Professors : A.K. Baruah, M.A. (Dib) Ph.D, (Punjab)
R. Borgohain, M.A., M.Phil (JNU) Ph.D (Gau)
L.S. Gassah, M.A., M.Phil & Ph.D, (NEHU)
B.J. Deb, M.A.(Double), LL.B & Ph.D, (Gauhati)

Readers : K. Debbarma, M.A., M.Phil & Ph.D, (NEHU)
H. Srikanth, M.A., M.Phil & Ph.D, (Hyd.)
Pascal Malngiang, M.A., M.Phil, Ph.D (NEHU)
Susmita Sen Gupta, M.A., M.Phil & Ph.D, (NEHU)
R. K. Satapathy, M.A. , M.Phil (Sambal) Ph.D.(NEHU)
Munmun Majumdar, M.A., Ph.D. JNU

Lecturers : T.T. Haokip, M.A. & Ph.D, (NEHU)
B.K. Mahapatra, M.A.(DU) M.Phil & Ph.D.(JNU)
V. Bijukumar, M.A.(Karela) M.Phil & Ph.D, (JNU)
Suparna Bhattacharya, M.A., M.Phil & Ph.D(JNU)

School of Social Sciences

Student Intake:

Enrolment capacity:

M.A.: 50

M.Phil. & Ph.D: Depending on availability of seats.

Actual Admission

	SC	OBC	ST	Gen	Male	Female	Total	From Meghalaya	From Outside
MA	-	1	48	1	15	35	50	29	21
M.Phil	1	1	11	1	9	5	14	9	5
Ph.D	-	-	15	5	<u>14</u>	<u>6</u>	20	3	17

Degree Awarded:

M.A.:	SC	OBC	ST	Gen	Male	Female	Total
	-	-	35	1	15	21	36

Ph.D :

Mr. B. Vanlalruala, Electoral Politics in Urban Mizoram: A Case Study of 1987 Assembly Elections in Aizawl Town, Supervisor: Prof. A. K. Baruah

Mr. Kara Heiman Shen, Regional Political Parties in Meghalaya with special reference to the Hill State People's Democratic Party, Supervisor: Prof. L. S. Gassah

Courses Conducted:

M.A., M.Phil, and Ph.D.

M.A. Syllabus

The Department has introduced new Choice Based Credit System (CBCS) syllabus for M.A. courses from the session (2008-09). The new course structure is mentioned below.

First Semester

Liberal Political Theory, Theory of International Politics, Major Concepts and Issues in Public Administration, Indian Political System State Politics in India with special reference to North-East Politics (I)

Second Semester

Three Compulsory, one Optional Core Courses and one Open Course
Compulsory Core Courses: Marxist Political Theory, Problems of International Politics, State Politics in India with special reference to North-East Politics (II)

Optional Core Courses:

Third World Political Theory, Administrative Theory, East and South-East Asian Political Systems, West Asian Political Systems.

(Students to choose any one from the above)

Open Courses:

Government and Politics in N.E. India, Democracy in India, Modern Indian Political Ideas.

(Students to choose any one from the above)

Third Semester

Two Compulsory, one Optional Core Course and Two Open Courses

Compulsory Core Courses: Contemporary Political Theory, Research Methodology (I),

Optional Core Courses::

Issues in Women's Studies, International Law and International, Organisation, South Asian Political Systems, African Political Systems.

(Students to choose any one from the above)

Open Courses:

Globalisation, Politics of Social Movements, Women and Political Theory, :Development, Administration, Issues in Environmental Politics.

Fourth Semester

Three Compulsory and Two Optional Core Courses

Compulsory Core Courses:

Major Debates in Political Theory, Comparative Politics, :Research Methodology,

Optional Core Courses:

Political Ideology, Political Sociology, Foreign Policy of Major Powers, Indian Political Economy, Human Rights.

M. Phil. Syllabus

First Semester:

Compulsory:

Course No. I: Research Methodology;

Course No. II: Issues and Processes in Politics of North-East India;

Optionals: (Any one from the following)

Course No III: Issues in Indian Politics;

Course No. IV: Women and Politics in North-East India;

Course No: V: Critical Perspectives on Knowledge and Power;

Course No. VI: Advance Studies in International Politics;

Course No. VII: Environment Studies.

Second Semester: Dissertation Work

Study Tours/Field Trips of Students:

During the year 2008-09, Dr. V. Bijukumar along with the students went for a study tour and visited Bangalore, Mysore, Goa and Chennai from 31st January to 16th February 2009.

Seminars, Conferences and Workshops/extension programmes etc.:

Attended

Dr. H. Srikanth presented a paper, "Perspectives on Political Autonomy and Economic Development of Indigenous Peoples in Canada and India: A Comparative Study" in an International Conference on Indigenous Art and Economic Development in Canada and India organized by Centre for Canadian Studies, H.S. Gour University at Khajuraho from September 25 to 28, 2008.

Dr. H. Srikanth presented a paper, "Nation State and Integration of Frontier and Border Areas" in National Seminar on Dimensions of Myanmar – Bangladesh Connection with Conflict Situation in North-East India, organized by Dibrugarh University at Dibrugarh on September 15-16, 2008.

Dr. T. T. Haokip attended and presented a paper on "Contesting Nomenclatures: The Kuki-Chin-Perspectives" at an International Seminar on Exploring the History, Culture and Identity of the Chins, from 13 to 15 October 2008 at Aizawl – jointly organized by Burma-Europe Office and History Department, Mizoram University.

Prof. A. K. Baruah presented a paper on "Political Science Research Capacity in North-East India" in a National Workshop on "Can Political Science be a tool for understanding and resolving conflict: the case of North-East India?" organized by the Centre for Development and Peace Studies in collaboration with British Deputy High Commission, Kolkata, on 16 March 2009 at Guwahati. He chaired a panel on Peace Processes: The best Practices in a National Workshop on "Can Political Science be a tool for understanding and resolving conflict: the case of North-East India?" organized by the Centre for Development and Peace Studies in Collaboration with British Deputy High Commission Kolkata, on 16 March 2009 at Guwahati. Presented a paper on "Social Science Research Capacity in North East India in a National Seminar on "Constraints and Challenges to Social Science Research in Northeast India" organized by the ICSSR, NERC, on 27th -28th March 2009.

Prof. R. Borgohain was a resource Person for National Advanced Training Programme on Human Rights (NHRC sponsored), Gauhati University, Guwahati on 10th & 11th December 2008. She was also a resource Person for Refresher Course on Women's Rights organized by Women's Studies Research Centre, Gauhati University, Guwahati on 19th & 20th January 2009.

Prof. B. J. Deb chaired an academic session in a National Seminar on Energy Security and alternative energies with special reference to North East India, organized by NEICSSR, Shillong on 5-6 June 2008. He also chaired academic session in a National Seminar on Extremism in North East India organized by NEICSSR, Shillong on 6-7 March 2009.

Dr. K. Debbarma presented a paper titled "Demography and Social Change in Tripura" in a National Seminar on Social Change in North East India: Processes and Responses, NEHU, on November 25-26, 2008. He presented a paper titled "Extremism in Tripura" in a National Seminar on Extremism in North East India, Meghalaya Secretariat Hall on March 6-7, 2009. He also presented a paper titled "Civil Liberty: A Victim of Actions by the State and Non-State Armed Groups in North East India, in a National Workshop on Can Political Science Be A Tool to Resolve Conflicts in North East? CDPS, Guwahati, March 16-17, 2009.

Dr. R. K. Satpathy presented a paper on "Sovereignty, Nation State and

Globalisation: An Indian Context” at the Annual Conference of Indian Academy of Social Sciences held at New Delhi from 18th to 22nd December, 2009.

Dr. T. T. Haokip attended and presented a paper on “Language Politics and Ethnic Relations in North-East India” at a national seminar on Narrating North-East India and Tribal Folklore from 28-30 September, 2008 at Diphu organized by Assam University, Diphu Campus. He attended and presented a paper on “Good Governance, Peace and Development” at a regional workshop-cum-seminar on Peace, Development and Prosperity from 10-11 January 2009 at Guwahati organized by Indian Confederation of Indigenous and Tribal Peoples' North East Zone. He also attended and presented a paper on “State and Counter-extremism: A Critical Assessment of North-East India” at a national seminar on Extremism in North-East India from 6-7 March 2009 at Shillong organized by North East India Council for Social Science Research.

Dr. V. Bijukumar attended and presented a paper on “Civil Society and Social Capital in Kerala: A Socio-Historical Perspective” in a National Seminar on State and Society in South India organized by Institute of Parliamentary Affairs, Government of Kerala, Thiruvananthapuram during 5-7 November, 2008.

Publications:

Books

Gassah, L.S. (ed.), 2008. *Women Empowerment Movement in North East India*, Omsons Publications, New Delhi.

Deb, B.J. (ed.), 2009. *Population and Development in North East India*, Concept Publication, New Delhi.

Articles

Baruah, A.K. and J. Hek, 2008. In: Conceptualizing Women and Political Power in Matriliney. *Proceedings of North East India History Association*, Shillong, 2009, pp.94-104.

Haokip, T.T., 2009. Critically Assessing Kuki Land Systems in Manipur. In: Singh, Ch. P. (ed), *Tribalism and the tragedy of the commons: Land, Identity and Development the Manipur Experience*, Akansha Publishing House, New Delhi, pp. 304-327.

Haokip, T.T., 2008. The Changing Dimensions of Kuki Chiefship in Manipur. *Journal of North-East India Council for Social Science Research*, 32: 51-62.

Bijukumar, V., 2008. Civil Society and Social Capital in Mizoram: Changing Dimensions and Emerging Trends. *Man and Society: A Journal of North-East Studies, ICSSR, North-Eastern Region*, 5: 57-80

Monograph:

Baruah, A. K., 2008. *Identity Discourses and Communalism in North East India*, University of Calcutta, Kolkata,

Research Projects:

Ongoing

The Department is pursuing the Project called *Democratic Governance, Extremism and Youth Movements in North East India* in which all except one of the faculty members are involved. Prof. L. S. Gassah is the Principal Investigator of the project.

New

The UGC has approved DRS-I for 5 years (01.4.2009 to 31.03.2014) under the Special Assistance Programme. Thrust Area identified: *Social and Political Dynamics of North East India*.

State of the Nation Survey project in Meghalaya, Dr. R. K. Satpathy, Rs. 60,000 CSDS.

General Elections 2009: A Behavioural Study of Political Attitudes and Opinion in Meghalaya Dr. R. K. Satpathy, Rs. 3.23 lakhs, UGC

Completed

Dr. H. Srikanth submitted a research manuscript titled, "Indigenous Peoples and Liberal Democratic Nations: Conflicts and Reconciliation in Canada and India" to Shastri Indo-Canadian Institute in fulfillment of the obligation for availing Canadian Faculty Research Fellowship.

Honours/Awards/Recognition: Dr. H. Srikanth awarded Associateship at Indian Institute for Advance Studies, Shimla.

Other activities

Prof. A. K. Baruah: has been nominated to the Governing Council of the ICSSR, New Delhi has been nominated as a member of the Indo-Russian Joint Commission for cooperation in Social Sciences. Has been nominated as a member of the ICSSR Monitoring Committee on North-East India has been nominated to the Governing

School of Social Sciences

Body of Nabakrushna Chaudhury Institute of Developing Studies, Bhubaneswar.

Prof. L. S. Gassah: Delivered two lectures at the Refresher Course organized by the Department of Education, NEHU, Shillong on 9th March 2009.

Prof. B. J. Deb: Co-opted to the Executive Council of Indian Institute of Public Administration, New Delhi. Elected President of North East India Council for Social Science Research, Shillong..

Dr. H. Srikanth: Delivered four lectures in Refresher Course in History, organized in NEHU in November December, 2008. Delivered one lecture in Refresher Course in Education, organized in NEHU on March 18, 2009.

Dr. R. K. Satpathy:- Delivered two lectures at the Refresher Course conducted by the Department of History, NEHU, Shillong.

Dr. Munmun Majumdar: As a resource person delivered a lecture on English Language as a soft power resource in the context of Indians looks policy, department of English NEHU 28th February 2009.

DEPARTMENT OF LAW

Head : Dr. Chintamani Rout
Telephone : 2723801, 9436336103
E-mail : chintamanirout@rediffmail.com.

Thrust area of research: The Department of law is at present offering a Five year Integrated B.A. LL.B (Hons.) Programme. The programme aims: achieve the following objectives to advance and disseminate knowledge of law and legal processes in the overall context of national and global developments; to develop a broad and holistic perspective which would help the students to understand the intricate relationship of law with society, economy, polity and history; to develop the highest standards of professional skill, behavior and personal integrity.

Brief statement of academic activities. The Department of Law is offering a Five Year Integrated B.A. LL.B (Hons.) Degree Course and is in its fourth year now with the second, fourth, sixth & eight semesters in progress. The Department organized

Bharat ka Sahitya aur Hindi Ki Bhumika at the Department of Hindi, organized by North Eastern Council, Government of India in association with Department of Hindi on June 4, 5 & 6, 2008 and presented a paper on 'Vidhik Shiksha me Hindi Ka Mahatva: Ek Paricharcha'.

Mr. A.K. Singh participated in two days National Seminar on "Emerging Dimensions on Legal Education and Legal Profession in India in Globalised Situation and presented paper on 'Education & Role of Criminal Lawyers in India'.

Mr. Naveen Kumar participated in three weeks Refresher Course in Law organized by Academic Staff College Jamia Malia Ismailia University, 25th Jan, 2009 – 5th Feb, 2009.

Publications

Journal

Mishra, R.K., 2008. Gender Equality and Hindu Succession (Amendment) Act, 2005: A Reprisal. Hi-tech Crimes and Police Administration: The Indian Scenario. Gopeshwar Law Review. In: Tiwai, O.N. (ed.) Police reform: Needs and challenges. pp 94-98. St. Andrew's College, Gorakhpur.

Infrastructure facilitates: A departmental library is having more than three thousand books, and all necessary national and international journals viz. All India Reporters from 1914 till 2008, Supreme Court Cases, Journal of World Intellectual Property Rights and Journal of Indian Law Institute, Harvard Law Review, All England Reporter etc. A good computer lab with internet connection and online journal facility made available by the University for access to all students and faculties while all the faculty have been facilitated with separate computers with internet facility.

Other activities

Dr. C. Rout delivered a lecture on a workshop on "Private Defence on General Exception under Indian Penal Code" as a resource person, organized by Border Security Force, head quarter, Shillong on the event of One Week Law Capsule Course for BSF Officers on April, 24-25, 2008. He delivered a Lecture on a workshop on "Disaster Management: Preparedness, Prevention and Mitigation" as a resource person, organized by Centre for Adult and Continuing Education, North Eastern Hill university, Shillong on November 5, 2008. Dr. Rout delivered a Lecture on "Public Interest Litigation and Human Rights in India & Role of Human Rights Commission" as a resource person in the UGC Refresher course in the Department of Political Science, North Eastern Hill University, Shillong, 2008. He also delivered a Lecture

on a workshop on “Training of Block Development Officer in Disaster Management” as a resource person, organized by Government of Meghalaya, Administrative Training Institute, Shillong on November 28, 2008.

Dr. J.J. Mozika: Participated in the two-day Regional Workshop on Disability organised by NHRC and Centre for Human Rights and Citizenship Studies of West Bengal National University of Juridical Sciences in Kolkata on 22-23 August, 2008. Delivered a Lecture on “Constitutional Framework of the Right to Education in India” as a resource person in the UGC-ASC Fourth Orientation Course (24th March – 23rd April, 2009) on 25.03.09.

DEPARTMENT OF SOCIOLOGY

Head : Professor C.L. Imchen
Telephone : 2723040 (O), 2550095(R)
E-mail : hodsoc@nehu.ac.in

Thrust Area of Research: Social change:

Brief statement of academic activities: The Department is concentrating on understanding changes taking place in the societies of the region. The Department of Sociology began instructions at M. A., M. Phil., and Ph. D. levels in 1976. Besides teaching and supervising research the faculty engages in individual research activities as well. With the existing faculty expertise, the Department has developed research excellence in the studies of political dynamics and Social Movements, emerging accommodation between native systems and the Nation State, ethnic identity, Globalisation and its impact on the North-Eastern Region, land and privatization of communal lands, rural developmental schemes and policies and traditional political institutions, Non-Governmental Organizations. Moreover, faculty members have been involved in their own capacities in community extension programmes, development of evaluation tools, documentation of Khasi indigenous forest management with reference to environment, evaluative research on community approach to handicap in development.

School of Social Sciences

Faculty:

- Professors** : Nikhlesh Kumar, M.A. (Delhi), Ph. D. (NEHU)
 C.L. Imchen, M.A., M.Phil. Ph. D. (JNU)
- Readers** : I. Lanu Aier, M.A., M. Phil., Ph. D. (NEHU)
 A. K. Nongkynrih, M.A., M. Phil., Ph. D. (NEHU)
 D. V. Kumar, M.A., M. Phil., Ph.D. (JNU)
- Lecturers** : B. Panda, M.A., M. Phil. (Hyd.), Ph. D. (IIT Kanpur)
 Rekha M. Shangpliang M.A., M. Phil., Ph.D. (NEHU)

Student intake: 42

Enrolment capacity: 45

Actual Admission	SC	ST	Gen	Male	Female	From Meghalaya	From Outside
	-	39	3	7	35	27	15
Students Passed out	SC	ST	Gen	Male	Female	Total	
MA	-	35	8	13	30	<u>43</u>	

Courses conducted:

First Semester

- i. Sociological Theories – I
- ii. Methodology of Social Research – I
- iii. Sociology of Family and Kinship
- iv. Indian Society – I
- v. Indian Society – II

Second Semester

- i. Sociological Theories – II
- ii. Methodology of Social Research – II
- iii. Sociology of Religion
- iv. Indian Society – III
- v. Open Course

Third Semester

- i. Economy and Society

- ii. Political Sociology
- iii. Sociology of Development
- iv. Tribal Movements in India
- v. Open Course
- vi. Open Course

Fourth Semester

- i. Social Change
- ii. Sociology of Environment
- iii. Anthropological Theories
- iv. Industrial Sociology

Open Courses in the II and III Semesters

One of the following three courses could be taken as open in the II Semester:

- i. Anthropological Theories
- ii. Crime and Society ‘
- iii. Ethnic Relations

Any two of the following courses could be taken as open in the III Semester

- i. Gender and Society
- ii. Industrial Sociology
- iii. Peasant Movements in India
- iv. Sociology of Literature
- v. Sociology of Rural Development in India
- vi. Urban Sociology

Seminars / Conferences/ Symposia/ Extension Programme etc.:

Organised

The Department organized (i) a seminar on “Nature, Culture and the Tribes of North -East India” on 2nd September, 2008. The convener of the seminar was Dr. Rekha M. Shangpliang (ii) a National seminar on: “Social Change in North-East

India: Processes and Responses” at the NEHU Guest House & Seminar Complex on 25-26 November, 2008. The conveners of the seminar were Dr. D.V. Kumar and Dr. I.L. Aier.

Attended

Prof. C. L. Imchen presented a paper titled “Construction of Tribal Identity: A Socio-Historical Process” in the National Seminar on Social Change in North-East India: Processes and Responses” organised by the Department of Sociology, NEHU on 25-26 November, 2008.

Dr. I.L. Aier presented a paper titled “Ongoing Naga Traditional Authority under State Structure” at the National Seminar On Social Change in North east India: Processes and Responses on 25-26 November, 2008.

Dr. A. K. Nongkynrih delivered a talk on “Profile of the Community – Community Needs with Reference to Meghalaya”, in the workshop on Community Radio , organised by the Institute for Vocational Education and Training, Indira Gandhi National Open University, Shillong, 19 January, 2009. he delivered a lecture on “Understanding Sociology – Its relevance to Society”, organised by the Department of Sociology, Shillong College, 31st July, 2008.

Dr. D. V. Kumar presented a paper titled: “An Ethnic Movement and Social Change: The Context of Mizos” at the National Seminar on Social Change in North-East India: Processes and Responses organized by the Department of Sociology, NEHU, Shillong on the 25th and 26th November 2008 at NEHU, Shillong. He also presented a paper “Development in North – East India : Issues and Challenges” at the Indian Sociological Society Conference held on the 27th and 28th December 2008 at Jaipur, Rajasthan

Dr. B. Panda presented a paper ‘NGOs and Social Change’ in the National Seminar on Social Change in North-East India: Processes and Responses organized by Department of Sociology, North-Eastern Hill University on 25-26 November, 2008.

Dr. Rekha M Shangliang presented a paper on “Common Property Resources and Khasi Rural Livelihood” in a local level seminar on Nature, Culture and the Tribes of North East India organised by the Department of Sociology, NEHU, Shillong on 2nd September, 2008. She also presented a paper on “Forest and Tribal Life: Facts of Environmental Change among the Khasis” in a National Seminar on Social Change in North East India: Processes and Responses organised by the Department of Sociology, NEHU on 25-26 November, 2008

Publications:

Journal Publications

Dr. Kumar, D.V., 2008. Engaging with Modernity: Need for a Critical Negotiation. *Sociological Bulletin*, 57: 240-254.

Dr. Shangpliang, R.M., 2008. The place of nature in the culture of the Khasis. *Man in India*, 88:547-558

Prof. Kumar, N., 2008. Field Techniques in Social Research. In Prasad, A., R. Mukherjee, and B.A. Ekka (eds.). *Social Research Methodologies in Action*, 2 (Strategies of Development Research), Ranchi: Xavier Institute of Social Service.

Dr. Nongkynrih, A.K., 2008. Non-Governmental Organisations and Income Generation: The Case of Meghalaya. In: Sarkar A.K. (ed): *NGOs and Globalisation: Developmental and Organisation Facets*, Rawat Publications, New Delhi.

Dr. Shangpliang, R.M., 2008. Ecological Basis of Khasi Ethno-Cultural Traits. In: Subba, T.B. (ed) *Christianity and Change in North East India*, Concept Publishing Company, New Delhi.

Funds received from agencies other than NEHU:

Received grants for holding a National-level Seminar on *Social Change in North-East India: Processes and Responses* from the following agencies:

Source	Amount
ICSSR	Rs. 1,00,000/-
ICSSR	Rs. 50,000/-
NEC	Rs. 1,00,000/-
ASI	Rs. 40,000/-
ICSSR	Rs. 16,250/-

Research Projects:

Ongoing

Prof. Nikhlesh Kumar: "Traditional Political Institutions and their Relation with Modern Political Institutions in Meghalaya" under UGC sponsored DRS/SAP Phase II.

Other activities:

Prof. Nikhlesh Kumar: Attended the National Seminar on Social Change In North – East India: Processes and Responses organised by the Department of Sociology, North _ Eastern Hill University, Shillong in NEHU, Shillong on 25th-26th November, 2008. Organised, as Honorary Director, a Consultative Workshop of NCERT on 'National Curriculum Framework' in collaboration with NEHU from 17th Dec. 2008 to 19th Dec. 2008. Gave two lectures as a resource person in the Refresher Course organised by the Department of Education, NEHU, Shillong on 22nd Dec. 2008. Gave two lectures as a resource person in the Orientation Course organised by the Department of Education, NEHU, Shillong on Feb. 24 & 27, 2009. Gave three lectures, as a resource person, on Methods and Techniques of Data Collection on 25-26 March 2009 in a Workshop on Research Methodology and Matlab organised by the Centre for Adult & Continuing Education, NEHU, Shillong. Participated in a Seminar on Constraints and Challenges to Social Science Research in North – East India organised by the North – Eastern Regional Centre of the Indian Council of Social Science Research, Shillong on 27th – 28th March, 2009.

Dr. I.L. Aier: Resource person in History Refresher Course for topic titled "Understanding Social Formations". Academic Staff College, November, 2008. Co-Convener of National Seminar on Social Change in North-East: Processes and Responses on 25-26 November, 2008.

Dr. A. K. Nongkynrih: "State Formation Process: The Case of Khasi-Jaintia Hills", organised by the Department of History, North-Eastern Hill University, Shillong, November, 2008. "Equality and Equity in Higher Education", organised by the Department of Education, North-Eastern Hill University, Shillong, 2 March, 2009. "Developmental Issues from the Sociological Perspectives", organised by the Department of Education, North-Eastern Hill University, Shillong, 23rd April, 2009. Member of the Board of the Indigenous Peoples Assistance Facility of the International Fund for Agricultural Development, Rome (2007-2010). Invitee, Meghalaya State Planning Board Meeting 15-16 January, 2009, Planning Department, Government of Meghalaya, Tura. Special Invitee, Knowledge Mission Team of the Meghalaya State Planning Board, Planning Department, Government of Meghalaya, Shillong, 2008. Resource person in a Consultative meet on "Career in NGOs/Self-Help Groups", organised by Siansin Pawlpi, Joint headquarters, Shillong, 9th May, 2009, Shillong.

Dr.D.V. Kumar was the Co-Convener of a National Seminar on Social Change in North-East India: Processes and Responses organized by the Department of

Sociology, NEHU, Shillong on the 25th and 26th November 2008.

Dr. Rekha M. Shangpliang was the co-convener of a local seminar on 'Nature, Culture and the Tribes of North East India' organised by the Department of Sociology, NEHU, Shillong on the 2nd September, 2008.

CENTRE FOR CULTURAL AND CREATIVE STUDIES

Head : Dr. P. Jhingan
Telephone : 2723372 (O)
E-mail : hodcccs@nehu.ac.in

Thrust Area of Research: Performing Arts, Visual Arts and Folkloristics.

Brief Statement of academic activities: The Centre conducts three regular P.G. Diploma Courses in Music, Painting and Folkloristics. Ph.D programmes were started in 2003 and research facilities are provided for scholars desirous of pursuing research work in the field of art, music and folkloristics. The 5th Annual Art Exhibition of the Centre was held at NEHU Central Library, Shillong from 26th to 29th August 2008, exhibiting works on canvas, terracotta, enamel and assorted media by the art students of the Centre.

Faculty:

Readers : Desmond L. Kharmawphlang, M.A. Ph. D. (NEHU).
P. Jhingan, BSc Engg. (Elect), M.A. & Ph.D. (JNU).
Lecturers : M.H. Barbhuiya, B.Fine (Visva Bharati).
L. Syiem, M.A., Ph.D. (NEHU).

Visiting Professor / Fellow/Scholars in the Centre

For P.G. Diploma Course in Music

1. Shri Komik Khongjirem.
2. Shri E. Shangpliang.

For P.G. Diploma Course in Painting

1. Shri Bedanta Kalita.
2. Shri Benedict S. Hynniewta.

School of Social Sciences

Students Intake:

Enrolment capacity:

(1) PG Diploma Music	-	20
(2) PG Diploma Painting	-	10
(3) PG Diploma Folkloristics	-	20
(4) Ph. D. -Varies from year to year.		

Actual Admission:

	SC	ST	Gen	Male	Female	From Meghalaya	Outside Meghalaya
PG Diploma: Music	-	9	1	6	4	10	0
Painting	-	2	2	3	1	1	3
Folklore	-	13	-	5	8	11	2
Ph.D.	-	4	-	1	3	3	1

Degree Awarded:

	SC	ST	Gen	Male	Female	Total
(a) Diploma: Music	-	11	-	5	6	11
Painting	-	9	1	7	3	10
Folklore	-	5	1	2	4	4

Placement of Students:

Folkloristics: One student placed in A.I.R., Shillong, two as Research Assistants in Don Bosco Centre for Indigenous Culture, Shillong. Painting: One in Animation in Mumbai, one self-employed in Art Studio, one as teacher in K.V. NEHU. Music : Six students, teaching in the Department of Music, Martin Luther Christian University, Shillong, one, teaching in Higher Secondary, two students teaching as part-time teachers in the Deptt. of Music, St. Anthony's College, Shillong, one in A.I.R., Shillong and one in Sur Bathiang Studio, Shillong.

Courses conducted:

1. P.G. Diploma in Music.
2. P.G. Diploma in Painting.
3. P.G. Diploma in Folkloristics.

Study Tour/Field Trips: The P. G. Diploma students of Music, Painting and Folkloristics were taken to Nongkrem on 08.11.2008 under the supervision of Dr P. Jhingan, to document and make a study of the Nongkrem Festival. On 12th November

2008, the P.G. Diploma students of Folkloristics of the Centre were taken on a field trip to Dawki to make a study of the art, music and folklore of the area. Dr. Desmond L. Kharmawphlang was the teacher in-charge.

Seminars/Conferences/Symposia/Extension Programmes, etc:

Organised:

Desmond L. Kharmawphlang: Organized (i) a Seminar on 25th-26th May 2008 on "Tribal Folk Literature of Assam" at Silapathar, Asom on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (ii) Seminar on "Problems and Prospects of Publishing Folklore" on 13th June 2008 on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (iii) Seminar on "Trickster Tale Tradition of North East India" on 28th June 2008 on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (iv) Symposium on "The Influence and Assimilation of Folklore in the Poetry of the North East" on 2nd August, 2008 on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (v) Seminar on "Oral Literary Criticism" from 9th -10th September 2008 on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (vi) Workshop on Tiwa Folklore Collection from 25th-26th October 2008 at Jaggiroad College, Asom, on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (vii) Seminar on "Oral Literature of Nagaland" from 31st October -1st November 2008 at Dimapur, Nagaland on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong. (viii) Seminar on "Oral Literature of North East" from 18th -19th November 2008 at Aizawl, on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong (ix) Seminar from the 24th-27th February 2009 on "Translating Oral Literature" at Tezpur University on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong.

Attended:

P. Jhingan presented a paper jointly with Ms. Cherry Kordor A Kharshiing (PhD student) The art of accepting visual texts as mental texts in folklore-a study of the ling Sad of the Khasis, in a Seminar on Oral Literary Criticism, organized by the Sahitya Akademi, North East Centre for Oral Literature, NEHU, Bijnai Complex, Shillong on 10th September 2008 at the NEHU guest house auditorium, Shillong . (ii). Chaired a session in the "National Seminar on Phonology, Vocabulary, Literature and Culture in Language Teaching in the North East Context" organized by North East Regional Institute of Education, Shillong at Shillong on 10-12 December. (iii). Presented a paper entitled "Use of Theatre in Language Teaching in the "National

Seminar on Phonology, Vocabulary, Literature and Culture in Language Teaching in the North East Context” organized by North East Regional Institute of Education, Shillong at Shillong on 10-12 December.

Desmond L. Kharmawphlang presented a paper on 2nd September, 2008 entitled, “Nature as Mother Metaphor” in the regional seminar organized by the Sociology Department, NEHU, Shillong. (ii) on 22nd-24th November 2008 on the “Perspectives of North Eastern Literature in Contemporary Society” for the Sahitya Akademi programme on North Eastern Poetry organized by Mizoram University, Aizawl. (iii) “Multilingualism and the Creation of Discourse” on 11th-12th December 2008 in the European Union Summit on Multilingualism at Delhi University, New Delhi. (iv) conference on “Multilingualism and Regionalism” on January 16th 2009 at NEHU organized by the Linguistics Department, NEHU, Shillong. Teaching Assignment as Visiting Fellow in the English Department, Delhi University from 13th-19th December 2008. (v) in the Indian Institute for Advanced Studies Seminar entitled “The Phawar in Context; The Politics of Tradition and Continuity in Khasi Oral literature” on 10th March, 2009 held at Aizawl, Mizoram he chaired a talk on “The Writers Sense of History” by noted novelist Chaman Nahal on 15th March, 2009 at Guwahati on behalf of North East Centre for Oral Literature of the Sahitya Akademi, Shillong at Guwahati.

M.H. Barbhuiya was a resource Person in the ‘Art in Education’ Workshop, 2008 organised by JNV, sponsored by MHRD of Secondary & Higher Education, Govt. of India, from 1st October to 4th October 2008 at Jawahar Navodaya Vidyalaya, Mukhla, Jaintia Hills District, Meghalaya.

Publications:

Journal

Kharmawphlang, D.L., 2009. Article published in the National Knowledge Commission primer on the North East entitled: A Walk through the Sacred Forest. Chief becomes the King: Importing the Feudal Paradigm. *Journal of Indian Folkloristics*.

Book

Jhingan and Prabodh, 2009. Uraan, Bhaat, Madhu Moh. In: Pagdandiya Pahaar Ki (ed) Dr. Bhai, A., Shillong, Purvottar Hindi Academy, pp:36-38.

Jhingan and Prabodh, 2009. *The Khasi Theatre- A Semiotic Study of the Nongkrem Dance Festival*. Delhi: Academic Excellence.

Infrastructure facilities:

Modelling Studio along with Modelling Stands, Enamel Furnace and Accessories for P.G. Diploma in Painting. Terracotta Furnace along with shade. Class-room furniture for Folkloristics, Painting and Music classes and for Modeling Studies. Music practical class-room along with musical instruments, Painting practical class-room along with Easel, Painting tables. Purchased and installed 10 (ten) Nos computers for the students and allowed internet access to all students, faculty and staff. Purchased and installed a heavy duty printer for research students. Purchased 1(one) sophisticated digital video camera, 5 (five) Nos. digital still cameras and 5 (five) Nos. digital tape recorders for field work of students.

Research Projects (On-going):

Desmond L Kharmawphlang : Principal Investigator, Area Study research Project under UPE entitled " Rice Myth of North East India", M.H. Barbhuiya; Investigator. P. Jhingan: Investigator, and L. Syiem: Investigator, " Rice Myth of North East India", under which the following activities were undertaken from April 2008 to March 2009.

Honours / Awards / Recognition:

Lapynshai Syiem: Was felicitated by the Jeebon Roy Memorial Welfare Institute, Shillong, on the occasion of Jeebon Roy Memorial Day on 16th May 2008, for her contribution towards Khasi Traditional Music by bringing it from the oral to the written notation form.

Other Activities:

M.H. Barbhuiya: Co-ordinator of the 5th Annual Art Exhibition of the Centre for Cultural & Creative Studies, NEHU, at the NEHU Central Library Conference Hall, NEHU from 26th to 29th August 2008. Delivered lecture with slide-show presentation on Gender Issue Reflection in the Contemporary Painting of Northeast India at Lalit Kala Regional Centre, Kolkata on 18th July 2008. Working for establishing Cultural Park Unit, NEICOD as member of the Co-ordination Committee.

VII

SCHOOL OF TECHNOLOGY

Dean : Professor K. Ismail
Telephone : 2722501 (O), 2722610 (O), 2550062 (R), 9436103293 (M)
E-mail : kismail@nehu.ac.in

The School of Technology was established in the year 2006. It consists of the Departments of (i) Electronic and Communication Engineering (ECE), (ii) Information Technology (IT) and (iii) Basic Sciences and Social Sciences (BSSS). The Departments of ECE and IT offer B. Tech. programmes of 8 semester duration in ECE and IT, respectively, while the Department of BSSS offers the courses that are common to all the B. Tech. students. More infrastructural facilities have been developed during the year and all the three Departments have moved into the new permanent building of the School of Technology. The faculty members are actively involved in teaching and collaborative research. Admission of students to the two streams of B. Tech. programmes was done through a central counseling and about 560 applications were received. Hostel facilities have been provided in the campus to all the outstation students.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Head : Dr. L. Joyprakash Singh
Telephone : 0364-272 3661(O), 9436349192(M)
E-mail : jplairen@nehu.ac.in

Thrust area of the department : The Department aims to train the students for Electronics and Communication industries and to develop their capacity for tackling

engineering problems in the field of Electronics and Communication.

Brief statement of academic activities: The Department has been making efforts to strengthen the infrastructure required for teaching the theory and practical courses of the B.Tech. programme, since this programme in Electronics and Communication Engineering is just three years old. The department has set up six new laboratories to meet the students' requirement.

Faculty:

Readers : L. J. Singh, M. Tech. (Tezpur), Ph. D. (Jadavpur),
S. K. Dutta, M. Tech. (Manipal Institute of Technology)
Lecturers : Juwesh Binong, B. E. (Bhavnagar)
Rajkishur Mudoj, M. Tech. (Tezpur)

Visiting Professors/Fellows/Scholars: Ms. Sceinty Mary Kharpuli, Vodafone, Shillong and Dr. Jaynal Ahmed, NEHU, Tura Campus visited the Department and delivered lectures to the B.Tech. students.

Student intake:

Enrolment capacity: 60

Actual Admission	ST	SC	Gen	Male	Female	Meghalaya/outside	
(a)B.Tech(ECE)	11	20	29	44	16	9	51

Courses Conducted:

Semester I: Basic Electrical Engineering & Basic Electrical Laboratory

Semester II: Basic Electronics, Basic Electronics Laboratory

Semester III: Analog Electronic Circuits – I, Digital Electronics, Signals and Systems, Electrical Network Theory, Analog Electronic Circuits – I Laboratory, Digital Electronics Laboratory

Semester IV: Electromagnetic Theory, Analog Electronic Circuits – II, Digital Systems Design, Linear Integrated Circuits and Systems, Analog Electronic Circuits – II Laboratory, Digital Systems Design Laboratory, Linear Integrated Circuits Laboratory

Semester V: Microprocessor, Electronics Measurements and Instrumentation,

School of Technology

Principles of Communication Systems, Power Electronics, Basic Control Engineering, Microprocessor Laboratory, Electronics Measurements and Instrumentation Laboratory, Communication Systems Laboratory

Semester VI: Advanced Microprocessors, Digital Signal Processing, Microwave Engineering, Computer Communications and Networks, Antenna , Advanced Microprocessor Laboratory, Digital Signal Processing Laboratory, Microwave Engineering Laboratory

Seminars/Conferences/symposia/workshop/extension programmes :

Attended

Mr. S. K. Dutta presented a paper entitled "Secured watermark for multicast network" in the International conference on "Computer communication, control and information technology", held in the Academy of Technology, Hoogly, West Bengal from 6th - 7th February, 2009. He also presented a paper entitled "Robust watermarking for secured multicast" in the National conference on "advancement in wireless technologies and applications" held in the Sardar Vallabh Bhai Patel National Institute of Technology, Surat from 18th - 19th December, 2008.

Publications :

Patra P.K., L.J. Singh and S. Kumar, 2009. Calculation of Strain Energy of Cantilevered Thick Multiwalled Carbon Nanotubes with Varying Forces at the Free End. *J. Comput. Theor. Nanoscience*, 6: 1–6.

Other Activities: Dr. L. J. Singh attended QIP sponsored short-term course on "Advanced Wireless Communication", conducted by the Department of Electronics and Communication Engineering, IIT Guwahati from September 22-26, 2008. Mr. S. K. Dutta participated in the summer school "SEMI NANO 2008" held in the Kolkata University with effect from 2nd June to 20th June, 2008 with UGC fellowship. Dr. L. J. Singh and Mr. S. K. Dutta have been selected for IASc-INSA-NASl Summer Research Fellowship for the year 2009. Mr. J. Binong attended QIP sponsored short-term course on "Advanced Wireless Communication", conducted by the Department of Electronics and Communication Engineering, IIT Guwahati from September 22-26, 2008.

DEPARTMENT OF INFORMATION TECHNOLOGY

Head : Md. Iftekhar Hussain
Telephone : 0364-2723611 (O), 9436337792 (M)
E-mail : hodit@nehu.ac.in

Thrust area of the department: The thrust area is to train the students for I.T. industries and develop their capacity to tackle engineering problems. Faculty members are working in the research areas of security networking, data mining and computational biology.

Brief Statement of Academic Activities: The Department has been making efforts to strengthen the infrastructure required for teaching the theory and practical courses of the B.Tech. programme, since this programme in Information Technology is just three years old. The department has set up additional computer laboratories with required softwares.

Faculty:

Readers : I. Hussain, M. Tech. (Tezpur)
Lecturers : S. Roy, M. Tech. (Tezpur)
 A. Maji, B.E. M. Tech. (BESU, Shibpur)
 S. Neog, M. Tech. (Tezpur)

Student intake:

Enrolment capacity: 60

Actual admission:	SC/ST/Gen/OBC	Male/Female	Total
B. Tech	16 14 19 8	44 13	57

Course Conducted:

Semester II – Computer Systems and Programming (*both for I.T. and ECE students*), Computer Programming Laboratory (*both for I.T and ECE students*).

Semester III – Discrete Mathematics, Data structure & Algorithm (*both for I.T. and ECE*), Numerical Lab, Data structure Lab (*both for I.T. and ECE*).

Semester IV – Formal Language and Automata Theory, Computer Graphics & Multimedia, System Programming, Computer Organization & Architecture, Computer Graphics & Multimedia Lab, System Programming Lab, Computer Organizational & Architecture Lab.

Semester V – Object Oriented Programming and Methodology, Operating System, Data Communication, Object Oriented Programming (C++, Java) Lab, Operating System Lab

Semester VI – Computer Network, Compiler Design, Algorithm Analysis and Design, Information Theory and Coding, Relational Database System, Computer Network Lab, Compiler Design Lab, Database Lab.

Seminars/conferences/symposia/extension programmes:

Attended

Mr. S. Roy presented a paper on “Efficient Mining of Top-K Strongly Correlated Item Pairs using One Pass Technique” in the 16th International Conf. on Advance Computing and Communication (ADCOM 2008), Madras University, Chennai, held on 14th - 17th December 2008. He also presented a paper on “SCOPE: An Efficient One Pass Approach to find Strongly Correlated Item Pairs” in the 11th International Conf. on Information Technology (ICIT 2008), Xavier’s Institute of Management, Bhubaneswar, held on 17th - 20th December 2008.

Publications:

Journal

Roy, S. and D.K. Bhattacharyya, 2008. OPAM: An Efficient One Pass Association Mining Technique without Candidate Generation. *Journal of Convergence Information Technology*, 3: 32-38.

Conference Proceedings

Roy, S. and D.K Bhattacharyya, 2008. Efficient Mining of Top-K Strongly Correlated Item Pairs using One Pass Technique. 16th International Conf. on Advance Computing and Communication (ADCOM), IEEE, pp. 416-421.

Roy, S. and D.K Bhattacharyya, 2008. SCOPE: An Efficient One Pass Approach to find Strongly Correlated Item Pairs. 11th International Conf. on Information Technology (ICIT), IEEE-CS Press, pp 123-126.

Roy, S., 2009. AlgoVis: A Tool for Visualizing and Simulation of Data Structure Algorithm. International Conf. on Computer, Communication, Control & IT, India, MacMillan Adv. Research Series, ISBN 023-063-759-0, pp 63-68.

Infrastructure Facilities:

The Department has added the following resources to the existing laboratory facilities for B. Tech students: 60 high end computers (Dell Optiplex 755 with Intel

Core 2 Quad, 4 GB RAM, 250 GB HDD, 19" TFT) IBM Blade Center E with 4 Blades (2 nos. Power 6 JS12 and 2 nos. Xeon Quadcore HS 21), 8 GB RAM, 3 TB of SAN storage LAN TRAINER, i-Security kits, Softwares: Red Hat Linux 10, Solaris 10, Oracle 11g, Adobe CS 4 Design Premium Package, IBM Rational Rose, 7Java Package, VMware

(All the machines in different laboratories are connected through high speed LAN)

Research projects

Ongoing

Studies on health Status and Demographic Pattern of population, around Domiasiat Area, West Khasi Hills. Co-investigator: Mr. A.K. Maji. Sponsored by the Environment Assessment Division, BARC.

Other Activities: Mr. I. Hussain delivered (i) four lectures on "Number System", "Computer Organizational & Architecture" and "Application of Information Technology in Society" in the 4th Orientation course on Information Technology organized by the Bioinformatics Centre, NEHU, Shillong on 24th March to 23rd April 2009, and (ii) two lectures on "Introduction to Information Technology and Computer Systems" in the 4th UGC-ASC orientation course organized by the Department of Education, NEHU, Shillong on 23rd February to 21st March 2009. Mr. S. Roy attended Workshop for North East Region on Language and Signal Processing, conducted by CVPR Unit, Indian Statistical Institute, Kolkata at Tripura University from 9th to 13th February 2009, He delivered lectures (i) in the 3rd UGC Orientation course conducted by the Department of Education, NEHU, Shillong from 23rd Feb, to 21st March, 2009 and (ii) in the 4th Orientation course on IT organized by the Bioinformatics Center, NEHU, Shillong from 24th March, to 23rd April, 2009. Mr. A.K. Maji delivered (i) two lectures on "*Multimedia and Internet Technology*" in the 3rd UGC Orientation course conducted by the Department of Education, NEHU, Shillong from 23rd February to 21st March 2009, (ii) four lectures on "*Multimedia and Internet Technology*" in the 4th Orientation course on IT conducted by the Bioinformatics Centre, NEHU, Shillong from 24th March to 23rd April 2009 and (iii) two lectures on "*Multimedia and Internet Technology*" in the 4th UGC Orientation course conducted by the Department of Education, NEHU, Shillong from 24th March to 23rd April 2009. Mrs. S. Neog delivered (i) a lecture on Computer Communication in the 3rd UGC Orientation course conducted by the Department of Education, NEHU, Shillong from 23rd February to 21st March 2009, (ii) two lectures on Operating System in the 4th Orientation course on IT conducted by the Bioinformatics Centre, NEHU, Shillong from 24th March to 23rd April 2009 and

(iii) a lecture on Computer Communication in the 4th UGC Orientation course conducted by the Department of Education, NEHU, Shillong from 24th March to 23rd April 2009.

DEPARTMENT OF BASIC SCIENCES & SOCIAL SCIENCES

Teacher-in-charge : Dr. A. K. Das
Telephone : 2723641, 2723642 (O), 2506251 (R), 9436732843 (M)
E-mail : dask_anup@yahoo.co.in

Thrust areas of the Department: The thrust areas of research of the department are Basic & Applied Mathematics, Basic & Applied Physics, Chemical Science & Technology, Basic & Applied Environmental Sciences, Biotechnology, Basic & Applied Economics, Applied Statistics, and Communicative English with emphasis on interdisciplinary and multidisciplinary studies.

Brief Statement of Academic Activities: The department conducts all the core courses of Basic Sciences, Humanities and Social Sciences that appear in the B.Tech. Curricula of Department of Electronics & Communication Engineering (ECE) and Department of Information Technology (IT) of the School of Technology. In addition, the members of the Faculty have been engaged in research activity in their respective fields of interest and also in the interdisciplinary and multidisciplinary areas.

Faculty:

Professor : P.V. Koparkar*, M. Sc, Ph. D. (Nagpur) * (Adjunct Professor)

Lecturers :

Physics

A. K. Das, M. Sc. (IIT, Kgp), Ph. D. (CU)
Regenel S. Kharwanlang, M. Sc. (NEHU)
Amal Medhi, M. Sc. (GU)

Chemistry

A. B. Chetry, M. Sc. (GU)
A. Sinha, M. Sc. (LU), Ph. D. (NEHU)
Lokman H. Choudhury, M. Sc./Ph. D. (IITG)
Jyoti Narayan, M. Sc., M. Phil, Ph. D. (KU)

Mathematics	M. D. Kushwaha, M. A., Ph. D. (BHU) M.M. Singh, M. Sc. (BHU), Ph. D. (PU) Sainkumar M.N. Mawiong, M. Sc. (NEHU) Jibitesh Dutta, M.Sc. (NEHU)
Statistics	Phrangstone Khongjee, M. Sc. (NEHU)
Env. Science	Krishna Upadhaya, M. Sc., Ph. D. (NEHU)
Biotechnology	Hiranjit Choudhury, M. Sc., Ph. D. (NEHU)
English	Evapynhun Giri, M. A., M. Phil. (NEHU)
Economics	Veronica Pala, M. A., Ph. D. (NEHU)

Courses Conducted : The following core courses of the B. Tech. programmes of ECE and IT have been conducted:

Semester I: English & Communication Skills, Engg. Mathematics I, Engg. Physics I, Engg. Chemistry, Basic Electrical Engg., Elements of Biotechnology, Engg. Chemistry Laboratory, Basic Electrical Laboratory and Engg. Graphics.

Semester II: Engg. Mathematics II, Engg. Physics II, Engg. Physics Laboratory, Basic Electronics and Basic Electronics Laboratory, Engineering Mechanics, Basic Mechanical Laboratory, Computer System and Programming, Computer System and Programming Laboratory and Environmental Sciences.

Semester III: Engineering Mathematics III, both for ECE & IT; Organizational Management for IT only.

Semester IV: Statistics and Random Processes

Semester V: Managerial Economics

Semester VI: Statistics and Random Processes

Seminars/Conferences/Symposia/Extension Programmes, etc.:

Attended

Dr. A. K. Das Chaired the valedictory session of a programme on 'Capacity Building of Teacher Educators of NE on Computer Literacy' organised by Centre for Adult and Continuing Education, NEHU, from August 04 to 08, 2008.

Dr. M. M. Singh delivered an invited lecture on "Mathematics in Vedic Period and its Relevance" In: "Tkniki Shabdhwali Seminar cum Workshop" organized by HRD, New Delhi and Department of Hindi, NEHU, Shillong during September 19 to September 21, 2008.

School of Technology

Dr. M. D. Kushwaha presented a paper entitled, "A theorem on subadditive one-sided invariant semi-2-metric groups and group topology" in the 96th Indian Science Congress held at NEHU during January 3-7, 2009.

Dr. H. Choudhury (with Dr. K. Upadhaya and A. Bhattacharjee) presented a paper entitled, "Environmental Biotechnology: Bioplastics and their environmental importance" in the National Seminar on "Toxicity of Chemicals & their Hazards with Special Reference to Heavy Metals" organized by St. Edmund's College, Shillong, on 23rd and 24th October 2008.

Dr. H. Choudhury (with A. Bhattacharjee) presented a paper entitled, "Homology modelling and analysis of Presenilin Enhancer-1 protein- A component of gamma secretase enzyme complex implicated in Alzheimer's disease" in the 96th Indian Science Congress held at NEHU during January 3-7, 2009.

Dr. K. Upadhaya presented a paper entitled, "Indigenous knowledge and biodiversity conservation in Meghalaya" in on 'Nature, Culture and the Tribes of North-East India' organized by the Department of Sociology, NEHU on 22nd September 2008.

Dr. J. Narayan (with Prof. P. V. Koparkar) presented a paper entitled, "Polycrystalline cadmium sulphide composites as gamma sensors" in the 96th Indian Science Congress held at NEHU during January 3-7, 2009.

Dr. V. Pala presented a paper entitled, "Human Development in India: A Look at Disparities among Social Groups" in the International Conference on Measuring Human Development organized by National Council of Applied Economic Research, New Delhi and University of Maryland College Park, Washington held at New Delhi from 16th to 18th May 2008.

Publications

Published in India

Das, A. K., 2009. Laser Assisted Environmental Studies. *Bulletin of Indian Association of Physics Teachers*, 1: 49.

Choudhury, H., S. Kumaria and P. Tandon, 2008. Induction and maturation of somatic embryos from intact megagametophyte explants in Khasi pine (*Pinus kesiya* Royle ex. Gord.). *Current Science*, 95: 1433-1438.

Choudhury, H., A. Bhattacharjee and K. Upadhaya, 2008. Environmental Biotechnology: Bioplastics and their environmental importance. *Proceedings of*

National Seminar on Toxicity of Chemicals & their Hazards with Special Reference to Heavy Metals, 121-125.

Bhattacharjæe, A., H. Choudhury, U. Maheswari and S.R. Joshi, 2008. *In-silico* prediction of structural and functional aspects of a hypothetical protein of *Arabidopsis thaliana* (L) Heynh. *Advanced Biotech*, 7: 14-18.

Baishya, R., S.K Barik and K. Upadhaya, 2009. Distribution pattern of aboveground biomass in natural and plantation forests of humid tropics in northeast India. *Tropical Ecology*, 50: 295-304.

Published Abroad

Upadhaya, K., H.N. Pandey, S.K. Barik and R.S. Tripathi, 2008. Organic matter, N and P dynamics of fine and coarse roots in humid subtropical forest ecosystem exposed to disturbance in Meghalaya, northeast India. *Malaysian Journal of Soil Science*, 12:40-60.

Book Chapter

Dubey, A. and V. Pala, 2009. Role of Christianity in Fostering Literacy and Education in Northeastern Region: Statistical Evidence. *In: Subba, T.B.J., Puthenpurakal, S. J. Puykunnel (eds.) Christianity and Change in Northeast India*. Concept Publishing Company, New Delhi, pp. 63-92.

Infrastructure facilities:

Several new equipments have been added to the Physica and Chemistry Laboratories. Apart from this, Basic Electrical Laboratory, Engineering Graphics Laboratory and Basic Mechanical Engineering (Workshop Practice) Laboratory have been upgraded. Fourteen computers plus two sets of LCD projectors with PC's were procured.

Research Projects:

Ongoing

"Measurements of radionuclides and trace elemental concentrations and their transfer factors in environmental matrices around the proposed uranium mining, milling and tailing pond site at K. P Mawthabah (Domiasiat), West Khasi Hills, Meghalaya" (Principal investigator: B. Kharbuli; Co-investigators: A.K. Das and Jyoti Narayan). Sponsored by DAE, Government of India.

"Studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya" (Principal investigator B. Kharbuli;

School of Technology

Co-investigators: S. K. Mawiong, Eva Giri, B. S. Mipun, D. K. Nayak, A. K. Maji, S. S. Chaturvedi). Sponsored by DAE, Government of India.

(i) A.K. Das and J. Narayan with B. Kharbuli (PI) on 'Radionuclides' got a sanction of Rs. 19,60,000/- for this year out of total 69.17 Lakh

(ii) S.K. Mawiong and E.Giri with B.Kharbuli (PI) on studies on Health Status.....' got a sanction of Rs. 25,51,800/- out of total of 54.5 Lakh.

New

Formulation of volume tables for important tree species of Meghalaya. Sponsored by Department of Forest & Environment, Government of Meghalaya, Principal Investigator: Dr. K. Upadhaya, 2008-2009.

Ecological studies on Mawhu, Dibin, Kameng and Tawang river catchments in Meghalaya and Arunachal Pradesh. Sponsored by WAPCOS, Ministry of Water Resources, Government of India. Principal Investigator: S.K. Barik and Co-investigator: K. Upadhaya. 2008-2009.

(i) K.Upadhaya PI on 'formulation of volume tables' pulled a fund of Rs. 5,000,00/- out of the total of the same amount.

(ii) K. Upadhaya Co-PI with S.K. Barik PI on Ecological Studies.....' pulled a fund of Rs. 9.5 Lakh.

Academic/Professional Collaboration:

Dr. (Mrs.) Jyoti Narayan visited Nanomaterial and Nanocomposites Laboratory in School of Physical Sciences, JNU from 14.01.2009 to 13.02.2009 as a visiting Faculty Fellow under DST - FIST (NER) and she worked in collaboration with Prof. H. B. Bohidar on a short term research project entitled "Biocompatible preparation and characterization of silver nanoparticles.

Dr. A.K. Das and Dr. Jyoti Narayan have collaborative research works with Prof. B. Kharbuli of Department of Zoology, NEHU, Shillong and Dr. S. K. Jha of BARC, Trombay on study of Radionuclides and Trace Elements' concentrations in the Environmental Matrix around the Uranium mining sites at Domiasiat in Meghalaya.

Mr. S.K. Mawiong and Ms. Eva Giri have collaborative studies with Prof. B. Kharbuli of Department of Zoology, NEHU, Shillong and Prof. B.S. Mipun and Prof. D. K. Nayak of the Department of Geography, NEHU, S. S. Chaturvedi of Centre for Environmental Studies, NEHU and Mr. A. K. Maji of the Department of Information Technology, NEHU, Shillong and Dr. Mohan Chougongar of BARC, Trombay on

health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya.

Dr. K. Upadhaya has collaborative studies with Prof. S.K. Barik of Department of Botany, NEHU, Shillong on Ecological studies on Mawhu, Dibin, Kameng and Tawang river catchments in Meghalaya and Arunachal Pradesh.

Other Activities: Dr. A. K. Das, Dr. M. M. Singh, Dr. A. Sinha, Dr. H. Choudhury, Dr. K. Upadhaya, Dr. (Mrs) J Narayan and Mr. Sainkumar Mn Mawiong participated in the 96th Indian Science Congress held at NEHU during 3rd to 7th January 2009. Dr. M. M. Singh, Dr. A. Sinha and Dr. (Mrs) J Narayan were also members of the organizing committees of the 96th Indian Science Congress. Dr. H. Choudhury was a member of the organizing committee for the Children's Science Congress held at NEHU during 3rd to 7th January 2009. Dr. M. M. Singh visited Assam University, Silchar, from 27.11.2008 to 16.12.2008, as an Invited Visiting Fellow. Dr. Singh was invited by the Coordinator, N.E. Region during 17th to 27th January 2009 for counseling the participants appearing in the "National Mathematical Olympiad" - 2009. Dr. M. M. Singh attended (i) a two weeks "International Workshop & Conference on Surface Mapping Class Groups & Related Topics" jointly organized by IUM, DST, UGC and Department of Mathematics, NEHU, Shillong, held during 16th to 28th June 2008, (ii) a one week workshop on "Research Methodology and MATLAB" organized by CACE, NEHU, Shillong, held during 23rd to 30th March 2009 and (iii) a Workshop on "E-learning" jointly organized by IGNOU and CDE in collaboration with Computer Centre, NEHU, Shillong, during 18th to 19th March 2009. Dr. H. Choudhury participated in a national seminar on "Toxicity of Chemicals & their Hazards with Special Reference to Heavy Metals" organized by St. Edmund's College, Shillong, on 23rd and 24th October 2008. Dr. H. Choudhury was a member of the organizing committee for the Children's Science Congress held at NEHU during 3rd to 7th January 2009. Dr. K. Upadhaya attended (i) a national seminar on "Toxicity of Chemicals & their Hazards with Special Reference to Heavy Metals" organized by St. Edmund's College, Shillong, on 23rd and 24th October 2008 and (ii) a seminar on "Nature, Culture and the Tribes of North-East India" organized by Department of Sociology, NEHU, Shillong, held on 22nd September 2008. Dr. (Mrs) J Narayan participated in a national workshop on "Research Methodology and MATLAB" organized by CACE, NEHU, Shillong, held during 23rd to 30th March 2009. Dr. V. Pala is working as Coordinator in the preparation of the Meghalaya State Human Development Report, 2008; a report being prepared by the Planning Department, Government of Meghalaya, in collaboration with the Planning Commission and the United Nations Development Programme (UNDP) funded by the Planning Commission, Government of India. Shri Regenel S.

School of Technology

Kharwanlang participated in (i) the "SERC School on Computational Statistical Physics" organized by the Department of Physics, Indian Institute of Technology, Guwahati, from 1st to 21st December 2008 and the "Workshop on High Performance Computing and Applications" organized by the Center of Development and Advance Computing (CDAC) at Computer Center, NEHU, Shillong, from 3rd to 6th March 2009. Mr. Sainkupar Mawiong participated in (i) an International Workshop and Conference on "Surface mapping class groups and related topics" organized by the Department of Mathematics, NEHU, Shillong from 16th-28th June, 2008, (ii) "Annual Foundation School in Mathematics-1", supported by National Board for Higher Mathematics, held at the Centre for Advanced Study in Mathematics, Punjab University, Chandigarh, during December 3rd-27th 2008, (iii) a four-day workshop on "High Performance Computing", organized by CDAC Pune and Computer centre NEHU Shillong during March 03rd -06th, 2009 and (iv) a Workshop on Research Methodology and MATLAB organized by the Department of CACE, NEHU, Shillong during March 23rd-30th 2009. Shri Phrangstone Khongji attended and participated in (i) a workshop on "Statistical Methods in Medical & Health Sciences" jointly organized by Statistics & Mathematics Unit, Indian Statistical Institute, Kolkata, and the Department of Statistics, NEHU held at NEHU, Shillong during 19th to 21st February 2009 and (ii) "School Teachers' Training Workshop on Mathematics" during the 96th Indian Science Congress organized by North-Eastern Hill University, Shillong, on 6th January 2009.

VIII

CENTRAL SERVICES

COMPUTER CENTRE

Head : Professor Y.S. Jain
Telephone : 2723751 (O), 2550663 (R)
E-mail : ysjain@nehu.ac.in

Brief statement of activities: The Centre provides computation facility to faculty members, research scholars and students of the University, develops and maintains software for the University and conducts training programmes in computer related subjects. Research scholars, teachers and non-teaching staff members from various Departments/Centres utilized the facilities of the Centre for computational work, documentation and internet browsing. The Centre conducted several short-term courses during the year. The Centre has been assisting Finance, Examination and Administration Departments of NEHU. Mr. P.P. Dey is maintaining the software of the Finance Department. Data entry operators of the Centre are involved in the Examination Department's work. The Centre conducted CIC, BCA and MCA courses of IGNOU at the Centre (in Bijni Complex) during the weekends and some holidays throughout the year.

Staff:

Reader	: Dr. T. K. Sinha, Ph. D. (NEHU)
Senior System Analyst	: Mr. P.P.Dey, B. Tech. (REC Warangal)
System Analyst	: Ms. Baphimon Rynjah, B. Tech. (JNTU College of Engineering, Kakinada), M. B. A. (IIT Chennai)
Computer Operator	: Ms. Nirmala Dayanandan, B. Sc., B. Ed. & DCA
Data Entry Operator	: Mr. P. Kharlukhi, BCA
Data Entry Operator	: Mr. N. L. Lyngdoh, M.Com.

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Student intake:

Enrolment capacity: 80

	SC	ST	Gen	Male	Female	From Meghalaya	Outside Meghalaya
Windows & MS-Office	01	43	37	38	43	81	-
C-Programming	-	01	01	01	01	02	-
Web Designing	-	04	05	05	04	09	-

Courses conducted:

Webpage Designing

C programming

C++ programming

Java Programming

MS-Windows & MS-Office

MS-Access & Visual Basic Programming

Seminars/Conferences/Symposia/Workshop/Extension programmes:

Organized

The Centre organized in collaboration with Centre for Development of Advanced Computing (C-DAC), Pune a workshop on High Performance Computing & Application in Physical, Environmental and Life Sciences & Bio-Informatics during 3-6 March 2009.

The Centre organized in collaboration with Distance Education Council, New Delhi a workshop on E-learning with Focus to Educational Internet Domains during 18-19 March 2009.

Funds received from agencies other than NEHU:

Rs.50000/- from CDAC, Pune for the workshop on High Performance Computing.

Infrastructure facilities:

PARAM Sheersh Super Computer with the following configuration:

Master/Compilation Nodes (DL 380G5) 2

Computer nodes (DL 160G5) 40

Storage Server: 10TB SAS+24TB SATA (DL380G5+MSA2000sa) 1

Communication Network: Voltaire iSR2004 with 48 ports+HP Procurve 2948: 48 port GigE switch etc. 1

Cluster Management Network: HP Procurve 2510 1

Network+IPMI Mgt Node(DL160G5)+HP TFT 7600,KB,Mouse,Monitor etc 1

Rack Enclosure: HP 1064G2: 42L1+32A PDLI-4 2

Software: Intel Compiler Suite Prof edition for Linux (5 Users Lic) 1

15 Desktop PCs and 1 Workstation (donated by Ministry of Communication and Information Technology, Govt of India)

40 Desktop PCs (from the fund received from UGC)

1 IBM 220 x Series working server and 1 enclosure with 2 (460BL HP) blades.

All the Desktop PCs and servers are connected on a LAN with NEHU internet facility being accessible.

Other activities: Prof. Y. S. Jain, Dr. T. K. Sinha and Mr. P. P. Dey delivered lectures in the Workshop on E-learning with Focus to Educational Internet Domains organized jointly with Distance Education Council, New Delhi during 18-19 March 2009. Dr. T. K. Sinha and Mr. P. P. Dey delivered lectures on Capacity Building of Teacher-Educator (SCERT/DIET Faculty Member) of North-East on Computer Literacy organised by NERIE in collaboration with Centre for Adult and Continuing Education, NEHU during 4-8 August 2008. Dr. T. K. Sinha delivered lecture in the National Workshop on Research Methodology and MATLAB organised by the Centre for Adult and Continuing Education, NEHU during 23-30 March 2009. A software program was written by Mr. P. P. Dey to format and generate tables for the Monograph No. GE/ NRDMS/DST/SS/8 on Hourly Weather Statistics of Three Stations of the Central Meghalaya Plateau (July 2007- June 2008) Volume-I compiled by Prof. Surendra Singh and Dr. H. J. Syiemlieh of the Department of Geography, NEHU. Dr. T. K. Sinha presented a paper (with Sarat Kumar Chettri) on Neural Network Based Diagnostic tool for Diabetes, Heart Disease and Cerebral Strokes and another paper (with Sachinandan Chanda) on Noise Induced Bifurcation in the High Temperature Hopfield Model in the 96th Indian Science Congress, January 3-7, 2009. The Computer Centre was shifted from Bijni Complex, NEHU to a New Building in the Permanent Campus, NEHU during October 2008. In this new building of the Centre PARAM

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Sheersh Super Computer was installed during December 2008, which was inaugurated by Prof. M. G. K. Menon, Chancellor of the University on 5th January, 2009. The Centre generated revenue of Rs. 69,940.00 during the year.

HEALTH CENTRE

In- Charge : Dr. V .S.V. Prasad
Telephone : 2224639(O), 2227369 (R)
E-mail : vsvprasad @post.com

NEHU Health Centre has three units- One at Bijni Complexes, Laitumukrah, Shillong, the other one at the Permanent Campus, Shillong and one at Tura Cmpus, Tura, catering to the herewith needs of teaching and non-teaching staff along with their dependents and the students.

Sr. Medical Officers : Dr. V.S.V. Prasad
Dr. I Hussain
Dr.(Mrs.) M. Marwein
Medical Officers : Dr.(Mrs.) T.D.Ch. Momin (Tura Campus)
Dr. (Mrs.) C. Mukhim

Facilities available:

Consultation: Medical Officer are available for consultation at fixed hours as well as for emergency consultation outside duty hours.

Pharmacy: The required medicines are purchased from wholesale suppliers and stocked at the Health Centre. These medicines are issued to the patients based on the prescription by the Doctors.

Dressing Room: Dressing, Injunctions and minor surgical procedures are carried out in the Dressing Room.

Sports; First Aid service is provided at sports tournaments

Ambulance: Ambulance service is provided during emergency for transporting the severely ill patients from residence to Clinic/Hospital. Laboratory: Bio-chemical and

Clinical pathology tests for blood and urine analysis are performed in the Health Centre.

In-Patient treatment: Patients requiring In Patient treatment are referred to the Hospitals within and outside Shillong depending upon the necessity.

Credit billing facility: we have credit billing facility available for patients admitted in Nazarath and K.J.P. Hospitals and CMC Hospital Vellore.

NEHU PUBLICATION CELL

In-Charge : Professor. A.C. Mohapatra
Telephone : 2226316
E- mail : nehupl@gmail.com

NEHU Publications was established with a view to promoting and undertaking publications in various academic areas and for different target groups of the University. It has mainly concerned itself with the Publication of University and undergraduate textbooks, supplementary reading materials, reference books, research works particularly those relating to the North East, Endowment Lecturers delivered in the University and Official publications like the University Acts and Status, Ordinances, the annual Report, NEHU News (quarterly) and The NEHU Journal (Biannually).

Apart from these, NEHU Publications Cell is also functioning as the Official printer of the University with the printing press attached to it.

This is largely a self-financing unit and has developed out of a small investment made during the very inception of the University. At present, the press has been undertaking almost all printing jobs emanating from the various Departments and Centres of the University. The Unit has acquired a double colour demy offset-printing machine, and is acquiring other printing equipments as part of its endeavour of modernize the press.

The Unit had also participated in the books 'exhibitions on three occasions. The Books exhibition organized by the Department of Art and Culture, Government of Meghalaya, at the State Central Library; the book exhibition organized by the Association of Indian University during its 80th Annual Meeting and during the 96th

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Indian Science Congress, Organised by the Indian Science Congress association of India.

Printing, reprinting and publication of the following works were taken up during the period under report:

NEHU News: Four issues (quarterly)

The NEHU Journal Volume VI Numbers 1 & 2

Reprinting of Phuit! Ka Sabuit!

Operational Guidelines for the 10th Five year Plan- National Afforestation & Eco-development Board.

Composition, layout, cover design of the 34th Annual Report 2008-09.

Printing items from exams, P&S, Finance, etc.

Prospectus and Admission forms for 2008-09.

Printing of items in connection with the 96th Indian science Congress.

Foundation Course Booklets for the CDE, NEHU, taken up.

BIOINFORMATICS CENTRE

(Sub. Distributed Information Centre, DBT, Govt. of India)

Head : Prof. Pramod Tandon, Coordinator, BIC, NEHU
Prof. Veena Tandon, Deputy Coordinator, BIC, NEHU
Telephone : 0364 2722312/1241/1242, 0364 2550100 (R)
Email : tandonveena@gmail.com, bicnehu@gmail.com

Thrust area of research: The Bioinformatics Centre (BIC) at North-Eastern Hill University (NEHU) has been setup and funded by Department of Biotechnology (DBT), Ministry of Science & Technology under the Biotechnology Information System Network (BTIS) program since November 1999 with a view to catering to the needs

of the scientific community in the far-flung northeastern region of the country and to augmenting their research activities through information inputs. Rich in great variety of flora and fauna, the north-eastern part of the country has been identified as one of the Biodiversity 'hotspots'. Being a part of the national Bioinformatics Network, the Centre's mandate is Biodiversity Informatics and it serves as an information base in various areas of Biosciences. Some of the important areas of research are molecular characterization, genome organization and expression in plants, animals and microbes, oncology, parasitology, crop improvement, microbial genetics etc. The most important area of research relevant to the northeastern region being biodiversity, the facilities of the Centre are extensively used for preparation of databases. Besides, extensive work on parasite genomics, proteomics and metabolomics, evolutionary bioinformatics and phylogeny have also been initiated, apart from providing support to all disciplines of research in biotechnology.

Brief statement of academic activities : (i) Information node of BTISnet: The Centre is part of the National Bioinformation Network and functions as an information base in various areas of Biosciences, (ii) Nodal centre of North East Bioinformatics Network (NEBInet): The BIC at NEHU serves as a nodal centre for the newly constituted NEBInet by DBT, GOI with more than 20 Bioinformatics Centres so as to coordinate the R&D activities and promote bioinformatics among the research community in the northeastern region, (iii) DBT-sponsored Bioinformatics National Certification Examination Exam Centre (BINC): BIC, NEHU as one of the seven Examination Centres for conducting BINC Exam (the year 2008 onwards), and (iv) Dissertation Training: Students pursuing post-graduation in any branch of biosciences are trained in Bioinformatics for a period of 3-6 months towards their dissertation work as a partial fulfillment of their degree, (v) Research & Database development: (a) Molecular characterization, functional and comparative genomics, proteomics, metabolomics, and evolutionary bioinformatics of pathogenic worm infections, and (b) Developing in-house databases pertaining to biodiversity of the region both flora and fauna and integrating the same under the common portal of Indian Biodiversity Information Network (IBIN), National Bioresources Development Board (NBDB, DBT), and (vi) Bioinformatics Training Programmes: which have always been an integral part of the Centre's activity, for which connoisseurs in the field are always invited to act as resource persons.

Courses Conducted:

Organized 1-month UGC-ASC-sponsored Orientation course on "Information Technology" during March 23 -April 22, 2009

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Bioinformatics training course on “In-Silico approach to Genome Analysis” during February 5-11, 2009 (Target Group: Research scholars, Colleges/ University Teachers)

Seminars/conferences/symposia/workshops/extension programmes etc. :

Attended

Mr. Pramod Kumar Prasad (Research Scholar) participated in the International Conference on Bioinformatics (INCoB 2008) held at National Yangming University, Taipei (October 20-23, 2008) and presented a paper on “Use of sequence motifs as barcodes and secondary structures of Internal Transcribed spacer 2 (ITS2, rDNA) for identification of the Indian liver fluke, *Fasciola* (Trematoda: Fasciolidae)”

Publications:

Published Abroad

Prasad, P. K., V.Tandon, D.K. Biswal, L.M. Goswami and A.Chatterjee, 2009. Use of sequence motifs as barcodes and secondary structures of internal transcribed spacer 2 (ITS2, DNA) for identification of the Indian liver fluke, *Fasciola* (Trematoda: Fasciolidae). *Bioinformation* 3(7):314-320.

Goswami, L.M., P.K. Prasad, V. Tandon, and A.Chatterjee, 2009. Molecular Characterization of *Gastrodiscoides hominis* (Platyhelminthes: Trematoda: Digenea) inferred from ITS rDNA sequence analysis. *Parasitology Research* 104: 1485-1490.

Prasad, P.K., V. Tandon, D.K.Biswal, L. Goswami, and A. Chatterjee, 2008. Molecular identification of the Indian liver fluke, *Fasciola* (Treatoda: Fasciolidae) based on the ribosomal internal transcribed spacer regions. *Parasitology Research* 103(6):1247-1255.

Funds received from agencies other than NEHU (Source and amount) :

Source Amount

Department of Biotechnology, Govt. of India Rs. 17.07 lakhs

Department of Information Technology, Ministry of Communications and Information Technology, Govt. of India Rs 82.21 lakhs

Infrastructure facilities available at the Centre:

Computer & Communication facility : Leased Line Internet Connectivity (4 Mbps), Implementation of LAN on a Structured CAT 5 UTP Cabling Network using Switches and Hubs, Servers (3 nos.), PCs (20 nos.), & Workstations (2 nos.), Printers (3 nos.), Scanner (1 no.), UPS (3 nos.), Projector (1 no.), etc.

Scientific Software packages : Accelrys Gene 2.5 (Sequence Analysis Work Bench), Matlab 7.0, Winspircs ver 4.1 for Biotechnological Abstracts, Reference Manager, SPSS (from NEPIAC Project)

Databases & other information resources : Derwent Biotechnological Abstracts (July 1987 - March 2006), Reference Update Deluxe Edition (July 2002 - June 2004), Parasitology Database (obtained through MOE&F) and other application Softwares from Microsoft, RHEL, SQL, Adobe and Apple etc.

Research Projects:

Ongoing

“North-East Parasite Information and Analysis Centre (NEPIAC): *an in silico approach*” with a total project grant of Rs.130.14 lakhs (October 2008 - 2011) Department of Information Technology, GOI.

Academic/Professional Collaboration:

The project entitled “North-East Parasite Information and Analysis Centre (NEPIAC): *an in silico approach*” is carried with a collaborative effort with the Institute of Genomics and Integrative Biology, Delhi and The Centre for Genomic Application, Okhla Industrial Estate, New Delhi.

Honours/Awards/Recognition:

Prof. Pramod Tandon was conferred with the highly prestigious **Padmashree** award for his distinguished contributions in the field of Science & Engineering.

Any other activities:

Hosted the XXth BTIS, DBT Coordinators' meeting at NEHU during February 3-4, 2009.

Organized Lectures-cum-hands on training to participants of the UGC-sponsored Refresher Courses for Zoology: “Bioinformatics Tools & Concepts” on November 15, 2008, and for Botany: “Plant Bioinformatics: Recent methods and approaches” on October 18, 2008.

The Information Officer delivered an invited talk on “bioinformatics” in the DBT-sponsored training program entitled “Training Course on Bioinformatics- General Concepts and Applications” during March 26-27, 2009 organised by Department of Biotechnology, Mizoram University, Mizoram.

Developed and maintained the website <http://www.isc2009nehu.com> of (i) the

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96th Indian Science Congress held in NEHU, January 3-7, 2009, (ii) the 20th National Congress of Parasitology organized by Indian Society for Parasitology and Department of Zoology, NEHU, during November 3-5, 2008: <http://www.zoology20thncp.qsh.in>, and (iii) Bioinformatics Centre is actively involved in the maintenance and development of the NEHU official website: <http://www.nehu.ac.in>

Mr. Devendra Kumar Biswal, Information Officer participated in the “Meeting of the expert group to take forward Indian Bioresource Information Network (IBIN)” organized by National Bioresource Development Board, DBT, New Delhi (May 19, 2008).

Prof. Veena Tandon and Mr. Devendra Kumar Biswal participated in the discussion meeting on “Indian Bioresource Information Network (IBIN): The Way Forward” organized by University of Agricultural Sciences, GVKV Campus, Bangalore (August 19, 2008).

Mr. Devendra Kumar Biswal participated in the 13th Annual Genome Meeting of Human Genome Organisation held at Hyderabad, India (September 27-30, 2008).

A database on medicinal plants (nearly 400 species) currently under development under the “Network project Development of database of the Indian Himalayan region” sanctioned by NMPB, Department of AYUSH, MH & FW.

The in-house databases developed by the Centre, under process to be brought under the common portal of IBIN, NBDB, DBT.

SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY

Head : Professor B. Myrboh
Telephone : 2227283 (O), 2505685 (O), 2231670 (R)
E-mail : bmyrboh@nehu.ac.in

Thrust area of the Centre: The Department of Science and Technology (DST), New Delhi, is providing facilities of sophisticated analytical instruments to researchers through its Sophisticated Analytical Instrument Facilities (SAIF) Programme so that the non-availability of these instruments in their institutes may not come in the way of scientists in pursuing R&D activities requiring such facilities and they are able to keep pace with developments taking place globally.

Brief Statement of Academic Activities: SAIF carries out analysis of samples received from the scientists/institutes, and provides facilities of sophisticated analytical instruments to the users from academic institutes, industries and R&D laboratories. It acquires and develops capability for preventive maintenance and repair of sophisticated instruments, and organizes short term courses/workshops on the use and application of various instruments and analytical techniques. SAIF also trains technicians for maintenance and operation of sophisticated instruments and undertakes design and development of instruments/accessories of existing instruments.

Scientific Staff	:	
Professor	:	R. P. Bajpai, M. Sc. (AMU), Ph. D. (Glasgow) (Temporarily attached)
S.S.O.	:	Taposh Chakraborty, Ph. D. (NEHU)
S.O.	:	Sudip Dey, Ph. D. (NEHU) Begonia Dkhar, Ph.D. (Gauhati Univ) Debashish Dey, Ph. D. (Rani Durgabati Univ., Jabalpur) P. S. Dkhar, Ph. D. (NEHU) S. K. Prasad, M. Sc. (NEHU) J. Sohtun, M. Sc. (NEHU)

Seminars/Conferences/symposia/extension programmes:

Attended

Dr. Sudip Dey delivered an invited lecture entitled "A few aspects of preparatory methods and applications of Electron Microscopy" in Annual Conference of Electron Microscope Society of India at the Department of Physics, Bundelkhand University, Jhansi held during 16th-19th January 2009.

Mr. S. K. Prasad presented a paper entitled "Elemental analysis of water and fish tissues of Wah Umkhrah and Umbang streams of Meghalaya" in the National Seminar on Toxicity of Chemicals: their hazards with special reference to heavy metals held in St. Edmund's College, Shillong during 23rd – 24th October 2008.

Publications:

Published in India

Bajpai, R.P. and M. Drexel, 2008. Effect of Colorpuncture on Spontaneous Photon Emission in a Subject Suffering from Multiple Sclerosis. *J Acupuncture Meridian Studies*, 1: 114-120.

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Lenger, K., R.P. Bajpai and M. Drexel, 2008. Delayed luminescence of high homeopathic potencies on sugar globuli. *Homeopathy*, 97: 134-140.

Bajpai, R.P., 200. Preface, *Indian Journal of Experimental Biology*, 46: 261-264.

Van, Wijk E.P.A., R.V. Van Wijk and R.P. Bajpai, 2008. Quantum squeezed state analysis of spontaneous ultra-weak light photon emission of practitioners of meditation and control subjects. *Indian Journal of Experimental Biology*, 46: 403-410.

Bajpai, R.P., 2008. Quantum nature of photon signal emitted by *Xanthoria.parietina* and its implications to biology. *Indian Journal of Experimental Biology*, 46: 420-432.

Bajpai, R.P., 2008. Biophotons and Alternative Therapies. Guest Editor. *Indian Journal of Experimental Biology*, 46: 259-432.

Manih, R.M. and B. Myrboh, 2009. Synthesis of functionalized diaryl alkanes from azines. *Indian J. Chem.*, 44: 146-151.

Published abroad

Mizar, P. and B. Myrboh, 2008. Three component synthesis of 5:6 and 6:6 fused pyrimidines using KF-alumina as a catalyst. *Tetrahedron Letters*, 49: 5283-5285.

Mizar, P. and B. Myrboh, 2009. Synthesis of substituted 4-(5-Alkyl-thiazol-2-ylmethyl)-3, 4-dihydro-2H- 1,4-benzoxazines and 5-(2,3-Dihydro-1,4-benzoxazin-4-ylmethyl)-4-methyl-1-phenyl-1H-pyrazol-3-ylamine. *J.Hetero. Chem.*, 46: 39-43.

Mizar, P. and B. Myrboh, 2009. Synthetic studies on KF-alumina catalyzed reaction of substituted and unsubstituted aryl-oxoketene dithioacetals and 1H-pyrazone-5(4H)-one: A convenient synthesis of pyrazole [3, 4-b] pyridine and pyrazolo [1,5-a]pyrimidine. *Tetrahedron Letters*, 50: 3088-3091.

Dey, S., S.M. Kharbuli, R. Chakraborty, S.P. Bhattacharya and U.C. Goswami, 2008. The effect of environmental acid stress on the sperm of a hill-stream fish *Danio aequipinnatus*: a scanning electron microscopic study. *Microscopy Research & Technique (USA)*, 72: 76-78.

Dey, S., S.P. Bhattacharya, R. Chakraborty and A. Dutta, 2009. A scanning electron microscopic study on surface ultrastructural features of epizootic ulcerative syndrome (EUS) affected *Puntius ticto* from Southern Assam of India. *Microscopy Research & Technique (USA)*, 72: 333-337.

Funds Received From Agencies other than NEHU:

DST, New Delhi	: Non Plan	: Rs. 2, 32, 50,000.00
	: Plan	: Rs. 15, 00,000.00
DST, New Delhi	: Project	: Rs. 28, 87,000.00
Ministry of Tribal Affairs, Govt. of India	: Project	: Rs. 2, 50,000.00

Infrastructure Facilities:

The following fully functional sophisticated analytical instruments are available:

- i. Scanning Electron Microscope, JEOL JSM 6360
- ii. Transmission Electron Microscope, JEOL JSM 100CX
- iii. FT-NMR 400 MHz, BRUKER AVR – 400
- iv. Microscope with Image Analyser, LEICA DMRX
- v. Atomic Absorption Spectrometer, Perkin Elmer PE 3110
- vi. Graphite Furnace, Analytik Jena AG Vario 6
- vii. CHN-OS Analyser, Perkin Elmer PE 2400
- viii. Liquid Nitrogen Plant, Philips PLN 106.
- ix. Liquid Chromatograph-Mass(LC-MS) Spectrometer, Waters ZQ-4000

Research Projects:

Ongoing

Endocrine Regulation of Reproduction and Enhancement of Fecundity in the Muga Silkworm *Antharaea assamensis* Helfer. Principal Investigator: Dr. C. Z. Renthelei, Central Muga & Eri Research & Training Centre, Jorhat, Assam; Co-investigator: Dr. S. Dey. Sponsored by DST, New Delhi.

Khasi Traditional Edibles & Their Food-Value with Reference to Some Major Nutrients. Principal Investigator: Dr. S. Dey; Co-investigator: Dr. R. Chakraborty and Dr. S. Singh Sponsored by Ministry of Tribal Affairs, Govt. of India.

Honour/Award/Recognition: Dr. Sudip Dey was elected as a Fellow of Electron Microscope Society of India.

Other Activities: Mr. S. K. Prasad participated in the (i) UGC refresher course

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organized by Academic Staff College, NEHU during 6th-27th November 2008 and (ii) workshop conducted by C-DAC and Computer Centre, NEHU during 3rd-6th March 2009.

Services offered

Scanning electron microscopic studies of biological and material science samples.

Transmission electron microscopic studies of biological and material science samples.

1-D and 2-D NMR spectra of biological and chemical samples in liquid/solution phase.

Trace element analysis in biological, chemical and industrial samples.

Mass spectra of compounds.

Supply of liquid nitrogen to academic, research and industrial institutions.

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

Head : Professor P.V. Koparkar
Telephone : 2721161 (O), 2551335 (R)
E-mail : chimanee@sancharnet.in

Thrust Area of Research in the Centre: The main thrust area of research in the Centre is related to Instrumentation and its allied fields. At present Sophisticated Laser based Seismic Instrumentation and Nuclear radiation detection Instrumentation are in progress. Work on Global Electric Circuit as well as on VLF/ULF is also in progress.

Brief Statement of Academic Activities: There are no academic activities at USIC. However, from August 2007, the Head, USIC and Technical officers of USIC have been taking theory and practical classes in the Department of Basic and Social Sciences, School of Technology. The Technical officers also take theory and practical classes in the Department of Electronic and Communication Engineering.

Faculty:

Professor : P. V. Koparkar, M. Sc, Ph. D. (Nagpur)
Technical Officers : S. De, M. Sc. (Gau), M. Tech.(Tezpur)
Frieda Cajee, B. E., P. G. Diploma (Gau)

Courses conducted: Practical classes related to Mechanical and Carpentry Workshop are being conducted by the USIC staff for engineering students of the School of Technology. Prof. P. V. Koparkar, as Adjunct Professor in the Department of Basic Sciences & Social Sciences, has been teaching Physics (Optics, Atomic, Molecular and Laser Physics) to the 1st and 2nd Semester students of ECE and IT Departments. Mr. S. De and Mrs. Frieda Cajee have been teaching theory and practical papers to the 1st, 2nd, 3rd and 4th Semester students of ECE and IT Departments.

Funds received from agencies other than NEHU:

DST = 3.80 Lakhs

DRDO = 6.00 Lakhs

Research Projects:

Ongoing

(i) Design & fabrication of a high resolution, three axis lasers based Computerized Seismometer, sponsored by DST, New Delhi, PI. Prof. P.V. Koparkar Rs. 11.41 Lakhs.

(ii) Seismic optical sensor for the detection of Atomic Explosions, sponsored by DRDO, Jodhpur, PI. Prof. P.V. Koparkar, Rs. 10 Lakhs.

(iii) Piezoelectric powered Radiation Detectors, sponsored by DRDO, Jodhpur, PI. Prof. P.V. Koparkar, Rs. 10.00 Lakhs.

Other activities: Prof. P. V. Koparkar gave a lecture on "Nanoscience: Convergence of Physics, Chemistry, and Life Sciences" on the National Science Day celebrations organized by IPA and Ramkrishna Mission, at Ramkrishna Hall, Shillong. USIC is involved in repair and maintenance of instruments used by PG students in the laboratories as well as by the research scholars from different departments/centres. Beside this, the carpentry section does the fabrication of furniture as per the requirement received from the P & S Section of the University.

IX

DEVELOPMENT DEPARTMENTS

UNIVERSITY PLANNING

As against the total XIth Plan proposal (1.4.2007 to 31.3.2012) of Rs. 56332.00 lakhs submitted by the University. The UGC approved an amount of Rs. 13697.50 lakhs in December 2008. The approved amount includes 3 (three) components viz. (i). General development (Rs. 123.00 lakhs) (ii). Merged scheme (Rs. 517.50 lakhs) (iii). Fellowship for doing for M.Phil/ Ph.D. (Rs. 800.00 Lakhs).

The approved amount Under General Development has been distributed among the following items,

1.	Building	-	Rs. 9326.00 Lakhs
2.	Equipments	-	Rs. 400.00 Lakhs
3.	Books	-	Rs. 200.00 Lakhs
4.	Staff	-	Rs. 1669.00 Lakhs
5.	Campus development	-	Rs. 400.00 Lakhs
6.	Library	-	Rs. 75.00 Lakhs
7.	Computer Centre	-	Rs. 50.00 Lakhs
8.	Health centre	-	Rs. 30.00 Lakhs
9.	Sports & Students amenities	-	Rs. 150.00 Lakhs
10.	Others	-	Rs. 80.00 Lakhs

Total - Rs.12380.00 Lakhs

Under Merged Scheme the UGC allocated the amount of Rs. 517.50 lakhs in 15 (fifteen) different items. Viz. Travel Grants, Conference/Seminar, *Publication*

grants. Appointment of Visiting Professor, Day Care Centre, Adventure Sports, Instrument Maintenance facility, Construction of Women Hostel, Basic Facility for Women, Faculty Improvement Programme, Equal Opportunity Cell, Coaching scheme for SC, ST & Minorities, Establishment of Career & Counseling Cell , Facilities for differently abled persons and IQAC.

Grant for doing M.Phil/Ph.D. (Rs. 800.00 lakhs) has been approved for the entire plan period instead of yearly/periodical grant.

During XIth Plan period creation of 6 (six) new departments and one additional Academic Programme in the existing department *viz.* Biomedical Engineering, Architecture, Energy Engineering, Nano Technology, Tourism & Hotel Management , Journalism & Mass Communication and M.Ed. Programme to the Department of Education have been approved.

During the Plan period 3 (three) existing Centres *viz.* Centre for Environmental Studies, Centre for Adult and Continuing Education, & Centre for Creative & Cultural Studies have been converted to departments.

CAMPUS DEVELOPMENT DEPARTMENT

Sl. No.	Name of Work	Status
1.	Construction of School of Technology at Permanent Campus, NEHU, Shillong	Completed.
2.	Construction of Link Road to Mawiong	Completed
3.	Construction of Computer centre etc. at Permanent Campus, NEHU, Shillong.	Completed
4.	Construction of Health Building at Permanent Campus, NEHU, Shillong.	Completed
5.	Construction of 6 (six) Nos. of Warden residence at Permanent Campus, NEHU,	Completed
6.	Construction of 7 (seven) Nos. Warden residence at	to be

Development Departments

Sl. No.	Name of Work	Status
	Permanent Campus, NEHU,	completed by 30.12.09
7.	Construction of 1 st Floor of Bio-Informatics Centre of Permanent Campus, NEHU, Shillong. (Civil & Plumbing works)	To be completed by June 2009
8.	Construction of Extension Block of department of Zoology & Botany at Permanent Campus, NEHU, Shillong (Civil & Plumbing works)	To be completed by October 2009
9.	Construction of extension Block of Deptt. of Physics at Permanent Campus, NEHU, Shillong (Civil & Plumbing works)	To be completed by October 2009.
10.	Construction of second floor over the existing Deptt. of Bioinformatics and Bio-Tech at Permanent Campus, NEHU, Shillong	To be completed by August 2009
11.	Construction of 2 nd Floor over the existing Centre for Environmental Science Building at Permanent Campus, NEHU, Shillong.	To be completed by August 2009
12.	Construction of 7 Nos. 100 seated of Hostels Building at Permanent Campus, Under progress	To be completed by the end of May, 2009.
13.	Construction of 100 seated Guest House Building at Permanent Campus, NEHU, to Shillong. Under progress completed by 31 st May, 2009	To be
14.	Construction of 42 Units of Non-teaching Staff-quarters at Permanent Campus, in NEHU, Shillong.	To be completed

by 2009.

ISCA RELATED WORKS

Sl. No.	Name of Work	Status
15.	Construction of Convocation shed at Permanent Campus, NEHU, Shillong.	Completed

TURA CAMPUS

16.	Construction of Main Road and Link Road (Phase-I) at Tura Campus, NEHU, Tura.	The work is under progress.
17.	Construction of Building for Academic Block at Tura Campus, NEHU, Tura.	The work is under progress.
18.	Construction of Building for Faculty Block (Management) at Tura Campus.	The work is under progress
19.	Construction of Boy's Hostel Building at Tura Campus, NEHU, Tura.	The work is under progress
20.	Construction of Girls' Hostel Building at Tura Campus, NEHU, Tura.	The work is under progress
21.	Construction of Library Block at Tura Campus, NEHU, Tura.	The work is under progress

COLLEGE DEVELOPMENT COUNCIL

Director : Dr. C.R. Diengdoh
Telephone : 2721201, 1202, 1203.
E-mail : dircdc@nehu.ac.in

The College Development Council was established in NEHU, in 1973, with the objective to provide a leadership role, and to extend help, guidance and advice to all affiliated Colleges admitted to the privileges of the University. With its thrust area on affiliation it provides a forum with a view to continuously improve the general educational standards in the affiliated Colleges. The University has at present 65 affiliated Colleges, of which 31 Colleges are permanently affiliated and 34 Colleges are provisionally affiliated. Besides the affiliated Colleges located within the state, the University has the privilege of affiliating Minority Educational Institutions as per the provisions of the National Commission for Minority Educational Institutions (NCMEI) Act which are located in the states of Assam, Jharkhand, Andhra Pradesh and Gujarat.

Four Colleges were newly affiliated to the University, two of which were affiliated as per the provisions of the NCMEI Act:

- i. METAS : Adventist College, Ranchi, Jharkhand – B.Sc. (Nursing), B.B.A., B.C.A. and M.B.A.
- ii. METAS : Adventist College, Nuzvid, Andhra Pradesh, B.Sc. (Nursing), B.B.A. and B.C.A.

The University has also had the privilege of affiliating the M.B.B.S. course of

iii. NEIGRIHMS: (North Eastern Indira Gandhi Regional Institute of Health & Medical Sciences), located at Shillong,

- iv. Khrawsing Christian College, Mawngap, East Khasi Hills.

During the year under report (2008-09) Lady Keane College, Shillong has been added to the list of NAAC (National Assessment and Accreditation Council, Bangalore) accredited Colleges and was granted accreditation with a Grade-B. St. Anthony's College, Shillong was reaccredited with Grade-A.

The number of Colleges offering new non-conventional courses such as BBA, MBA, BCA, and BSW are on the rise.

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During the year 2008-09, the College Development Council processed the applications for permission and affiliation. Several Committees were constituted to visit Colleges for the purpose of affiliation under the following categories:

- | | |
|--|----------------------------------|
| I. Opening Permission to New College | : 6 Colleges. |
| II. Provisional Affiliation to New Subject(s)/Course(s) | : 7 Colleges. |
| III. Renewal of Provisional Affiliation | : 15 Colleges. |
| IV. Permanent Affiliation | : 1 College. |
| V. Permanent Affiliation to Subject(s)/Course(s) of study in permanently | : 1 College affiliated Colleges |
| VI. Permission to start New Subject(s)/Course(s) of study in an affiliated | : 1 College. College/Institution |

Colleges visited during the year 2008-2009:

- i. St. Edmund's College, Shillong.
- ii. St. Anthony's College, Shillong.
- iii. Lady Keane College, Shillong.
- iv. St. Mary's College, Shillong.
- v. Union Christian College, Umiam Khwan, Ri-Bhoi.
- vi. Shillong College, Shillong.
- vii. College of Teacher Education (PGT), Shillong.
- viii. Mendipathar College, Mendipathar.
- ix. Nongstoin College, Nongstoin.
- x. Don Bosco College, Tura.
- xi. Tikrikilla College, Tikrikilla.
- xii. Shillong Engineering & Management College, Jorabat.
- xiii. St. Mary's College of Teacher Education, Shillong.
- xiv. Christian Academy College, Shillong.
- xv. Mawlai Presbyterian College, Shillong.
- xvi. Don Bosco College of Teacher Education, Tura.
- xvii. Khrawsing Christian College, Mawngap.

Development Departments

A College Development Council Committee comprising of 22 members is in place since 2006. It is the Principal Advisory Body to the Executive Council through the Academic Council in all matters relating to affiliated Colleges. The College Development Council as per University Grants Commission rules appointed experts and Vice-Chancellor's nominees as members of Committees for Selection and Placement of Lecturers of affiliated colleges. The College Development Council also represented the University on Committees for:

(i). Recommendation of College Lecturers for award of University Grants Commission Teacher Fellowship under Faculty Development Programme for the XIth Plan (2007-2012), for doing M.Phil/Ph.D. (ii). Physical verification of Women's Hostel under University Grants Commission funding scheme for construction of Women's Hostel.

The College Development Council as per NEHU Statutes renews appointment of NEHU representatives to the Governing Body of affiliated Colleges whose terms expires. It is the liaison between the affiliated Colleges and the University Grants Commission (UGC) in forwarding various proposals of Colleges to the UGC for obtaining funds under the different schemes for overall development of Colleges.

ACADEMIC STAFF COLLEGE

Head : Prof. B. B. P. Gupta (University Coordinator, Refresher Courses)
Telephone : 0364-2721081/2721082 (O)
E-mail : asc@nehu.ac.in

Thrust area of research in the department/centre: The UGC-Academic Staff College (UGC-ASC) has been established to upgrade the knowledge and skills of faculty members of the institutions of higher education under the Faculty Development Programme of the UGC, New Delhi. The UGC-ASC conducts Refresher Courses (RCs) and Orientation Programmes (OPs) for the faculty of Universities and Colleges located in the North-Eastern region as well as in other parts of the country. RCs and OPs are conducted in subjects approved by the UGC, New Delhi in order to update and acquaint the participating teachers with the latest developments and recent trends in the respective subjects. The OPs and RCs are designed to empower the

teachers with depth of knowledge to enhance their teaching skills as well as capabilities.

Brief statement of academic activities: The UGC-ASC was established at NEHU in 2006 with financial assistance from the UGC. It became fully functional in March, 2007 after appointment of non-teaching staff (7 Nos.). The UGC sanctioned 3 academic posts (Professor-Director: 1; Reader: 1, and Lecturer: 1), which were advertised and filled up accordingly, however, Professor-Director is yet to join. The UGC-ASC was allotted 3 Office rooms, one Lecture room and a Computer Laboratory in the Building for Centres of Studies. During 2007-08, the UGC-ASC conducted a total of 12 RCs and 2 OPs, and trained a total of 390 teachers and during 2008-09 conducted a total number of 12 RCs and 3 OPs and trained a total of 403 teachers belonging to various universities and colleges recognized by the UGC. Further, the UGC-ASC established a Computer Laboratory with 24 numbers of state of the art PCs, a Server, two Laserjet Printers, a DLP Projector and a Scanner etc. The Computer Lab will be used for training the participants of the OPs and RCs as well as the faculty, research scholars and students of the University in information technology with special reference to teaching and research.

Faculty:

- Reader : Dr. (Mrs.) Quendarisa Kharbuli
M.Sc., Ph.D. (Zoology), NEHU, Shillong
- Lecturer : Dr. (Mrs.) Kuheli Biswas Das
M.Sc., Ph.D. (Zoology), NEHU, Shillong

Visiting Professors: Following resource persons were invited to deliver lectures for the OPs and RCs (2008-09)

Refresher Course in Geography Dr. A. K. Bora, Dept. of Geography, Gauhati University; Dr. Abani Kumar Bhagabati, Gauhati University; Prof. R. K. Rai, Indira Colony, 6 Civil lines, Sagar, Maharashtra; Dr. N. Kar, Reader, R.G.U., Itanagar; Dr. R. C. Joshi, R.G.U., Doimukh, Arunachal Pradesh; Prof. D. C. Goswami (Retd.) Gauhati University, Dept. of Environmental Science.

Refresher Course in Philosophy Prof. V. C. Thomas, Pondicherry University, Pondicherry; Prof. M. M. Agarwal (Retd), Dept. of Philosophy, NEHU, (Ghaziabad, U.P.); Prof. S. P. Gautam, Centre for Philosophy, JNU, New Delhi.

Refresher Course in Library & Information Science Prof. N. Lahkar, Dept. of Lib. & Info. Science, Gauhati University; Dr. Tamal Kumar Guha, Central Library, IIT Guwahati; Prof. A. Chatterjee, Jadavpur University, Kolkata, W.B.; Prof. Pravakar

Development Departments

Rath, DUS, Mizoram University, Aizawl; Dr. T. Temjen, Nagaland University, Kohima.

Refresher Course in Chemistry Prof. P. S. Kalsi, Sarbha Nagar, Ludhiana; Prof. Sanjib Bagchi, IISER, Kolkata; Dr. B. K. Das, Dept. of Chemistry, Gauhati University; Dr. Nanhai Singh, Dept. of Chemistry, B. H. U, Varanasi.

Refresher Course in Physics Dr. Tarak Nath Dey, Dept. of Physics, IIT Guwahati; Dr. A. N. Talukdar, M. C. Road, Guwahati; Dr. Shreekantha Sil, Dept. of Physics, Visva-Bharati, W. B.; Dr. D. N. Roy (Retd.), Head, Physics Dept., Patna University; Prof. N. N. Singh, Physics Dept., Gauhati University.

Refresher Course in Botany Prof. S. P. Adhikary, Dept. of Botany, Utkal University, Orissa; Dr. N. C. Talukdar, IBSD, DBT, Govt. of India, Imphal; Prof. R. S. Ambasht, 97 Jawahar Nagar, Varanasi; Dr. D. K. Hore, Jt. Director, NBPGR, ICAR, Umiam.

Refresher Course in Political Science Prof. A. K. Ramakrishna, Jamia Milia Islamia University, New Delhi; Prof. Samir Kumar Das, Dept. of Political Science, Calcutta University; Prof. Shobhanlal Datta Gupta, Kolkata.

Refresher Course in Zoology Prof. U. C. Goswami, Dept. of Zoology, Gauhati University.

Refresher Course in History Prof. Ranjan Chakrabarti, Jadavpur University, Kolkata; Prof. Sajal Nag, Dept. of History, Assam University.

Refresher Course in Mathematics Prof. A. B. Raha, Vasundhara, VIP Road, Kolkata; Dr. Helen K. Saikia, Dept. of Maths., Gauhati University, Assam; Dr. P. Rajkhowa, Dept. of Mathematics, Gauhati University.

Refresher Course in Education Dr. Daisy Bora, Reader, Dept. of Education Dibrugarh University; Dr. Nilima Bhagabati, Dept. of Education, Gauhati University; Prof. N. B. Biswas, Dept. of Education, Assam University; Dr. Gayatree, Dept. of Education, Gauhati University; Dr. Daisy Borah, Dept. of Education, Dibrugarh University, Assam; Prof. J. P. Bagchi, DEREM- NERIE – NCERT; Prof. J. P. Bagchi, DEREM- NERIE – NCERT; Prof. D. S. Bhattacharjee, Principal, NERIE-NCERT.

Refresher Course in English Prof. Amitava Roy, 6A, Maharaja Nanda Kumar Road, Kolkata; Dr. Anita Tamuli, Dept of ELT, Gauhati University; Prof. Nandana Dutta, Dept. of English, Gauhati University; Dr. Aparna Bhattacharyya, Dept. of English, Gauhati University; Dr. S. K. Gupta, Dept. of Education, Nagaland University, Kohima; Dr. Sivasish Biswas, Dept. of English, Mizoram University, Aizawl; Prof. Subir Dhar, Dept. of English, Rabindra Bharti University, Kolkata.

3rd Orientation Programme (General) Dr. Benudhar Chinara, Dept. of Education, Visva-Bharati, Santiniketan; Dr. Nilima Bhagabati, Dept. of Education, Gauhati University.

4th Orientation Programme (IT) Dr. Nityananda Sarma, Dept. of Computer Science & Engineering, Tezpur University; Prof. K. C. Kapoor, Dept. of Education, Rajiv Gandhi University, Arunachal Pradesh.

5th Orientation Programme (General) Prof. S. K. Gupta, Dept. of Education, Nagaland University; Shri N. Mozika, Advocate, Nongthymmai, Shillong; Prof. G. Kharkongor, V. C. Martin Luther Christian University, Shillong.

Courses Conducted: The UGC-Academic Staff College conducted the following courses during the year 2008-09:

<u>Orientation Programme</u>	<u>Duration</u>	<u>No. of Participants</u>
3 rd Orientation Programme (General)	23 rd February to 21 st March, 2009	47
4 th Orientation Programme (IT)	23 rd March to 22 nd April, 2009	20
5 th Orientation Programme (General)	24 th March to 23 rd April, 200	36
Refresher Courses	Duration	No. of Participants
Geography	22 nd July to 12 th August, 2008	18
Philosophy	18 th August to 8 th September, 2008	20
Library & Information Science	19 th August to 9 th September, 2008	33
Chemistry	10 th September to 1 st October, 2008	19
Physics	11 th September to 3 rd October, 2008	24
Botany	13 th October to 4 th November, 2008	20
Political Science	14 th October to 5 th November, 2008	34
Zoology	6 th November to 28 th November, 2008	20
History	10 th November to 2 nd December, 2008	35
Mathematics	1 st December to 22 nd December, 2008	15

Development Departments

Education	2 nd December to 23 rd December, 2008	31
English	25 th February to 18 th March, 2009	30

Seminars/conferences/symposia/workshops/extension programmes etc.:

Attended

Dr. (Mrs.) Quendarisa Kharbuli attended the training programme on "Recent Advances in Molecular Markers and their Applications" organized by the National Bureau of Fish Genetic Resources (Indian Council of Agricultural Research), Lucknow, from January 12-23, 2009.

Publications:

Biswas, K., L.M. Jyrwa., D. Häussinger and N. Saha, 2008. Influence of cell volume changes on protein synthesis in isolated hepatocytes of air-breathing walking catfish (*Clarias batrachus*). *Fish Physiology and Biochemistry* (DOI 10.1007/s10695-008-9275-5).

Biswas, K., J.L. Khongsngi, D. Häussinger and N. Saha, 2009. Influence of cell volume changes on autophagic proteolysis in the perfused liver of air-breathing walking catfish (*Clarias batrachus*). *Journal of Experimental Zoology*, 311: 115-124.

Funds Received from Agencies Other than NEHU: The Academic Staff College was sanctioned Rs.50.00 Lakhs for the year 2008-09 from the University Grants Commission, New Delhi, for conducting Refresher Course and Orientation Programmes in approved subjects and for meeting other expenditures.

Infrastructure Facilities: The UGC-ASC established a Lecture room (capacity: 50 persons) and a Computer Lab with Server (1 No.), PCs (24 Nos.), DLP Projector (1 No.), Scanner (1 No.) and Network Laserjet Printers (2 Nos.). It also procured Laptop computers (3 Nos.), PC (9 Nos.), DLP Projectors (4 Nos.), Document Visualizer (1 No.), Overhead Projectors with Tripod Projection Screen (2 Nos.), HDD Video Camera (1 No.); Fax machine (1 No.) Xerox Machine (1 No.), Scanner (1 No.), All-in-one Printer/Scanner (1 No.) and LaserJet Printer (7 Nos.) Digital SLR Camera and Flash (1 No.), Amplifier (1 No.), Wired microphone (2 Nos.), Cordless microphone (2 Nos.), Lapel Microphones (1 No.), Speakers (1 pair), Insta-lock Projection Screen (2 Nos.). The UGC-ASC also has established a Guest House with 50 beds capacity for accommodating participants attending Refresher Courses and Orientation Programmes.

CENTRAL LIBRARY

Librarian : Dr. (Mrs.) I. Majaw
Telephone : 2721251 (O)
E-mail : imajaw@nehulib.ac.in

The year witnessed significant developments in terms of reader service, books and journal collection, e-resources and improvement in overall infrastructure. With provision of 11th Plan Grant, the Library made special efforts to build the e-resources, create net access and installed the required infrastructure, thus ensuring instant and uninterrupted information retrieval and e-services as well as improving day-to-day functioning of the Library. The Library users in this part of the country require the needed skills in e-usages and knowledge of different e-sources and net access. This special need was addressed through orientation programmes, publisher wise trial access and hands on demonstration.

Achievements during the year.

Books, Journals and other resources :

Books: A total number of 10,292 volumes were added bringing the Library collection to 2, 53871 volumes.

Journals: The Library subscribed to 276 foreign journals and 129 Indian Journals, thus covering all priority journals of different Departments of the University.

E-Sources: Five e-sources were subscribed as follows:

- i. Biological Abstract
- ii. Academic Search Premier (EBSCO)
- iii. IEL – On-line
- iv. Indiatat
- v. Credo References/Database

Access to Network Sources:

UGC. INFONET - The Library Computer Unit constantly monitored access to UGC Infonet under which an approximate number of 5000 peer review journals which include both consortia subscribed journals and open source databases were available. During the year, NEHU ranked very high in usage as per Infilbnet statistics

Development Departments

record.

UGC-INFONET Publisher wise Usage Statistics Jan. - Dec.2008.

Publishers – Journals/Databases/Portal	Total	Rank.
Blackwell Publishing	497	16 out of 152
Cambridge University Press	224	selected University.
JSTOR	1401	
Oxford University Press-		202
Project Muse	407	
Springer Link	1950	
Taylor & Francis	1076	
ACS	5934	
AIP/APS	2600	
Blackwell		3088
CUP	1950	
Elsevier	1446	
Emerald	1208	
IOP		1366
JCCC	4595	
JSTOR	29127	
OUP		3592
RSC	1853	
Springer	8815	
T&F	2759	

Access to American Information Service (USIS)

To enhance the information base for the benefit of users, the library availed institutional membership with the American Centre Library, Kolkata. This provides access to their Opac for browsing. It also allows the NEHU Library 5 cards for inter library loan from any American Centre in the country.

New services provided:

During 2008, the Inlibnet Centre under UGC-Infonet Digital Library Consortium, launched the JCCC (J.Gate Custom Content Consortia) for sharing of articles from journals subscribed by the libraries within the consortia. This is of special benefit to users specially for research work. Under the above programme, the NEHU Library was included as one of the inter library loan Centre - "ILL Centres" for resource sharing among the 22 selected Universities in the country. Services provided by the NEHU Library are as follows:-

Journal articles provided to other universities	- 128
Journal articles received for NEHU	- 38

Library Academic Contribution:

As in earlier years, the services of the Library personnel was made available as resource persons in UGC Refresher Courses and Orientation Programmes conducted by the University. The Library Officers also continued to assist the Department of Library and Information Science by delivering lectures in certain courses.

Improvement of Infrastructure: The Library was equipped with adequate furniture and computers including 120 study tables and reading chairs, provision of subject guides and location plates. In addition the long awaited computer chairs and three digital heavy copier machines were also procured. The installation of auto-generator during the year ensured uninterrupted power supply.

Statistics at a Glance:

Book collection	-	253871
Books added	-	10292
Journal subscribed	-	405
Registered members	-	4157
Daily average issues	-	533
Daily consultation	-	506
Reprography Service	-	1, 28242 copies

Development Departments

LIBRARY (TURA)

Tura Campus is the only functional automated Library in Garo Hills . The Library not only caters the needs of the Faculty, Research Scholars, Students and Teaching Staff Tura Campus but also to other neighbouring academic institutions of the entire Garo Hills.

During 2008-2009 the Campus Library established a remarkable impact amidst the Students and Faculty and achieved outstanding progress in its collection development in the Campus and Management Library. Books and learned Journals are centrally procured processed in the main Campus Library and after complete processing sent to Management Library.

Library Budget (Non-Plan)

- (a) Book Grant - Rs. 3.95 Lakhs
- (b) Periodical Subscription - Rs 7.35 ,,

Plan Allocation - Rs. 9.50 (Lakhs)

Collection Development

(a) No. of Journals Subscribed

- Indian Journals - 108
- Foreign ,, - 53 161

(b) Number of Books Added in 2008-2009- 1982

- (i) Purchased - 1921 volumes
- (ii) Gift - 61 " 1982

Circulation Statistics

- (a) Books Issued - 27,900
- (b) Books Returned - 25,700
- (c) Books/Jls. Consulted - 42,000

(These Statistics includes Management Library also)

Reprography Unit of Campus Library

Total Exposures provided: 41,793

Technical and Library Automation Unit

(a) Data Base prepared - 1500 Volumes

(b) Barcoding - 1200 ,,

Activities by Library Staff -

- (a) 4th phase of Library automation completed and Data Base available on OPAC.
- (b) Barcoding of Campus and Management Library is in progress.
- (c) Libsys S/W Engineer visited the Campus Library in March'09 and gave training to staff about the updation of Libsys S/W for better utility.
- (d) The Library started Bibliographic services on demand to Students and Research Scholars.
- (e) Shri. A.K. Mondal, Prof. Assistant went on Study Leave for one year for his Ph.D. program to Guwahati University and resumed duties in November'08.

Computer Laboratory:

Computer Laboratory has been installed under the control of Campus Library with internet facilities. Ten (10) Computers in Computer Laboratory and Five (05) Computers to Campus Library were provided and the Students are using the service.

Library Membership Statistics	-	376
(a) Faculty members	-	27
(b) Guest Lectures	-	09
(c) Research Scholars	-	25
(d) Students of	-	270
(e) <u>Non-Teaching Staff</u>	=	<u>45</u>
Total -		376

Papers Published in Journals by Library Staff ;

Kundu, A.K. and S. Kumar, 2008. Citation and Bibliographic Analysis : It of creative Behaviour. *Herald of Library Science*, 47: 27-32.

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Kundu, A.K. and P. Tiwari, 2008. Information Management and Transformation of Society . *IJILIS*,21:147-150.

Kundu, A. K. and P. Tiwari, 2008. Library Material cost studies. *IJILIS*,21: 190-193.

Kundu, A.K. and P. Tiwari, 2008. Social Transformation through Library Services. *IJILIS*, 20: 112-16.

X

EXAMINATION DEPARTMENT

Controller of Examination : Professor D.R. Syiemlieh
Telephone : 2721211 (O), 9436103103
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During the year under review, the Examination Department could declare results well in advance due to the extra efforts put in by its Officers and Staff, Principals of Colleges and Teachers of the University and Colleges. The statistical data of the examination is self-evident vis-à-vis enrolment of students and examination results of the year 2008-09. The computerization of the examination results has made the system relatively error free and advanced the declaration of results.

The Examination Department operates round the year on all matters relating to Under Graduate and Post graduate examinations conducted by the University and examination of research dissertations and thesis. The challenges of the Department to keep schedules have increased with the increase in the number of affiliated colleges and new Departments in the University. The University has adopted the Choice Based Credit System (CBCS) during the academic year under review which is concurrently in operational with the old pattern of examination at the Post Graduate Level.

The enrolment of students and results during the year under report are given in Annexure- A, B, C, D and E respectively.

Examination Department

ANNEXURE "A"

Enrolment Of Students For The Academic Year 2008-09: University Teaching Departments

Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>B A L L B (Honours)</u>										
First Year	4	10	11	10	0	0	0	0	15	20
Second Year	6	13	7	22	1	1	0	0	14	36
Third Year	4	7	20	26	0	2	0	1	24	36
Fourth Year	1	6	25	25	0	0	0	3	26	34
TOTAL	15	36	63	83	1	3	0	4	79	126
<u>B Tech</u>										
First Year	30	10	22	7	25	9	10	1	87	27
Second Year	36	19	10	1	17	0	19	3	82	23
Third Year	27	9	9	3	5	1	11	3	52	16
TOTAL	93	38	41	11	47	10	40	7	221	66
<u>M A</u>										
First Year	10	25	158	394	3	0	2	8	173	427
Second Year	10	32	158	331	1	2	2	4	171	369
TOTAL	20	57	316	725	4	2	4	12	344	796
<u>M Sc</u>										
First Year	22	24	99	103	0	0	0	2	121	129
Second Year	17	14	102	97	1	1	0	1	120	113
TOTAL	39	38	201	200	1	1	0	3	241	242
<u>M Com</u>										
First Year	3	1	24	17	0	0	0	0	27	18
Second Year	1	5	16	23	0	0	0	0	17	28
TOTAL	4	6	40	40	0	0	0	0	44	46
<u>M Lib Info Sc</u>										
First Year	0	0	8	17	0	0	0	0	8	17
Second Year	1	1	12	11	0	0	0	0	13	12
TOTAL	1	1	20	28	0	0	0	0	21	29

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Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>M B A</u>										
First Year	15	1	4	0	3	0	5	2	27	3
Second Year	6	1	5	4	4	3	0	0	15	8
TOTAL	21	2	9	4	7	3	5	2	42	11
<u>M Ed</u>										
First Year	2		5	16	0	0	0	0	7	16
(TOTAL)										
<u>M Phil (ARTS)</u>										
Newly Enrolled	2	3	8	5	0	1	0	0	10	9
Previously Enrolled	3	2	3	8	0	0	1	0	7	10
TOTAL	5	5	11	13	0	1	1	0	17	19
<u>Ph D</u>										
Newly Enrolled	22	14	46	42	1	1	3	2	72	59
Previously Enrolled	88	68	145	158	6	1	3	3	242	230
TOTAL	110	82	191	200	7	2	6	5	314	289
<u>PG Diploma (ARTS)</u>										
First Year	2	0	19	41	0	0	1	0	22	41
(TOTAL)										
<u>EDUCATION THROUGH DISTANCE MODE</u>										
<u>B Ed (Special Education)</u>										
First Year	0	6	4	9	0	0	0	1	4	16
(TOTAL)										
<u>PG Diploma (Floriculture)</u>										
First Year	1	1	5	1	0	0	1	0	7	2
(TOTAL)										
<u>Certificate (Floriculture)</u>										
First Year	0	1	1	0	0	0	0	0	1	1

Examination Department

ENROLMENT OF STUDENTS FOR THE ACDEMIC YEAR 2008-09: UNIVERSITY TEACHING DEPARTMENTS

Courses	Gen	Gen	3. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
B A L L B (Honours)	15	36	63	83	1	3	0	4	79	126
B Tech	93	38	41	11	47	10	40	7	221	66
B Ed (Special Education)	0	6	4	9	0	0	0	1	4	16
UG TOTAL	108	80	108	103	48	13	40	12	304	208
M A	20	57	316	725	4	2	4	12	344	796
M Sc	39	38	201	200	1	1	0	3	241	242
M Com	4	6	40	40	0	0	0	0	44	46
M Lib Info Sc	1	1	20	28	0	0	0	0	21	29
M B A	21	2	9	4	7	3	5	2	42	11
M Ed	2		5	16	0	0	0	0	7	16
PG TOTAL	87	104	591	1013	12	6	9	17	699	1140
M Phil (ARTS)	5	5	11	13	0	1	1	0	17	19
Ph D	110	82	191	200	7	2	6	5	314	289
PG Diploma (ARTS)	2	0	19	41	0	0	1	0	22	41
PG Diploma (Floriculture)	1	1	5	1	0	0	1	0	7	2
Certificate (Floriculture)	0	1	1	0	0	0	0	0	1	1
Diploma/ Certificate TOTAL	3	2	25	42	0	0	2	0	30	44

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ANNEXURE "B"

ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2008-2009: AFFILIATED COLLEGES

Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>B A (PASS)</u>										
FIRST YEAR	267	441	3867	3922	63	35	19	16	4216	4414
SECOND YEAR	107	351	1651	2263	15	19	14	17	1787	2650
THIRD YEAR	86	303	1151	1741	15	12	10	9	1262	2065
TOTAL	460	1095	6669	7926	93	66	43	42	7265	9129
<u>B SC (PASS)</u>										
FIRST YEAR	7	8	68	49	1	0	0	0	76	57
SECOND YEAR	4	16	25	36	0	0	0	0	29	52
THIRD YEAR	2	8	52	19	0	0	0	0	54	27
TOTAL	13	32	145	104	1	0	0	0	159	136
<u>B COM (PASS)</u>										
FIRST YEAR	163	63	341	147	5	1	3	1	512	212
SECOND YEAR	100	44	161	50	5	1	3	1	269	96
THIRD YEAR	56	26	101	93	3	1	0	0	160	120
TOTAL	319	133	603	290	13	3	6	2	941	428
<u>B SC (HOME SCIENCE (PASS))</u>										
FIRST YEAR	0	1	0	1	0	0	0	0	0	2
SECOND YEAR	0	2	0	2	0	0	0	0	0	4
TOTAL	0	3	0	3	0	0	0	0	0	6
<u>B A (HONOURS)</u>										
FIRST YEAR	149	383	1393	1944	12	16	11	14	1565	2357
SECOND YEAR	117	344	885	1203	8	11	4	9	1014	1567
THIRD YEAR	93	365	725	1209	8	11	1	7	827	1592
TOTAL	359	1092	3003	4356	28	38	16	30	3406	5516
<u>B SC (HONOURS)</u>										
FIRST YEAR	149	167	483	426	6	8	10	10	648	611
SECOND YEAR	100	141	240	205	7	8	3	13	350	367
THIRD YEAR	74	91	182	198	0	2	1	1	257	292
TOTAL	323	399	905	829	13	18	14	24	1255	1270

Examination Department

Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>B COM (HONOURS)</u>										
FIRST YEAR	154	99	324	171	6	2	15	3	499	275
SECOND YEAR	89	46	168	85	5	2	3	1	265	134
THIRD YEAR	74	40	138	42	3	1	1	1	216	84
TOTAL	317	185	630	298	14	5	19	5	980	493
<u>B SC (HOME SCIENCE (HONOURS))</u>										
FIRST YEAR	0	21	0	19	0	0	0	0	0	40
SECOND YEAR	0	24	0	23	0	0	0	0	0	47
THIRD YEAR	0	20	0	20	0	0	0	0	0	40
TOTAL	0	65	0	62	0	0	0	0	0	127

Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>B B A (HONOURS)</u>										
FIRST YEAR	129	147	31	13	1	0	6	3	167	163
SECOND YEAR	78	83	35	14	2	2	2	2	117	101
THIRD YEAR	82	100	14	8	2	0	1	1	99	109
TOTAL	289	330	80	35	5	2	9	6	383	373
<u>B C A (HONOURS)</u>										
FIRST YEAR	63	79	29	18	1	1	4	4	97	102
SECOND YEAR	26	39	15	9	2	2	6	0	49	50
THIRD YEAR	7	6	11	4	0	0	3	0	21	10
TOTAL	96	124	55	31	3	3	13	4	167	162
<u>L L B</u>										
FIRST YEAR	26	23	181	112	0	3	0	0	207	138
SECOND YEAR	20	17	94	65	0	1	0	0	114	83
THIRD YEAR	19	20	82	54	0	0	0	0	101	74
TOTAL	65	60	357	231	0	4	0	0	422	295
<u>B SC (NURSING)</u>										
FIRST YEAR	0	2	3	37	0	7	0	2	3	48
SECOND YEAR	0	4	6	45	0	3	0	1	6	53
THIRD YEAR	0	4	3	24	0	0	0	0	3	28
TOTAL	0	10	12	106	0	10	0	3	12	129

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Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
B ED	42	14	104	181	7	8	13	7	166	240
(TOTAL)										
BE (CSE)										
FIRST YEAR	32	11	3	0	3	0	5	1	43	12
SECOND YEAR	13	5	0	0	3	1	14	11	30	17
THIRD YEAR	18	8	6	4	4	0	9	2	37	14
FOURTH YEAR	16	8	6	0	3	0	12	2	37	10
TOTAL	79	32	15	4	13	1	40	16	147	53
BE (ECE)										
FIRST YEAR	32	9	1	1	1	0	7	3	41	13
SECOND YEAR	10	8	2		5	0	18	11	35	19
THIRD YEAR	22	6	5	1	1	0	18	3	46	10
FOURTH YEAR	28	4	2	1	4	0	11	2	45	7
TOTAL	92	27	10	3	11	0	54	19	167	49
BE (IT)										
FIRST YEAR	30	4	6	0	1	1	6	2	43	7
SECOND YEAR	17	4	6	0	4	2	10	6	37	12
THIRD YEAR	19	4	6	2	2	0	12	4	39	10
FOURTH YEAR	3	1	1	4	1	0	3	1	8	6
TOTAL	69	13	19	6	8	3	31	13	127	35

Examination Department

Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>M B B S</u>										
FIRST YEAR	16	13	13	8	0	0	0	0	29	21
(TOTAL)										
<u>M A (ECONOMICS)</u>										
FIRST YEAR	1	1	3	2	0	0	0	0	4	3
SECOND YEAR	2	0	2	1	0	0	0	0	4	1
TOTAL	3	1	5	3	0	0	0	0	8	4
<u>M SC (BIOTECHNOLOGY)</u>										
FIRST YEAR	4	5	4	5	1	0	1	0	10	10
SECOND YEAR	5	4	4	6	0	1	0	0	9	11
TOTAL	9	9	8	11	1	1	1	0	19	21
<u>M B A</u>										
FIRST YEAR	25	19	1	0	1	1	0	0	27	20
SECOND YEAR	12	26	0	0	0	0	0	0	12	26
TOTAL	37	45	1	0	1	1	0	0	39	46
<u>M C A</u>										
FIRST YEAR	7	4	11	5	2	1	0	0	20	10
SECOND YEAR	4	3	3	3	0	0	0	0	7	6
TOTAL	11	7	14	8	2	1	0	0	27	16
<u>PGDCA</u>	4	1	12	6	0	0	0	0	16	7

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Courses	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
B A (HONOURS)	359	1092	3003	4356	28	38	16	30	3406	5516
B A (PASS)	460	1095	6669	7926	93	66	43	42	7265	9129
B B A (HONOURS)	289	330	80	35	5	2	9	6	383	373
B C A (HONOURS)	96	124	55	31	3	3	13	4	167	162
B COM (HONOURS)	317	185	630	298	14	5	19	5	980	493
B COM (PASS)	319	133	603	290	13	3	6	2	941	428
B ED	42	44	104	181	7	8	13	7	166	240
B SC (HONOURS)	323	399	905	829	13	18	14	24	1255	1270
B SC (NURSING)	0	10	12	106	0	10	0	3	12	129
B SC (PASS)	13	32	145	104	1	0	0	0	159	136
B Sc Home Sc (Hons)	0	65	0	62	0	0	0	0	0	127
B Sc Home Sc (Pass)	0	3	0	3	0	0	0	0	0	6
BE (CSE)	79	32	15	4	13	1	40	16	147	53
BE (ECE)	92	27	10	3	11	0	54	19	167	49
BE (IT)	69	13	19	6	8	3	31	13	127	35
L L B	65	60	357	231	0	4	0	0	422	295
M B B S	16	13	13	8	0	0	0	0	29	21
UG TOTAL	2539	3657	12620	14473	209	161	258	171	15626	18462
M A (ECONOMICS)	3	1	5	3	0	0	0	0	8	4
M B A	37	45	1	0	1	1	0	0	39	46
M C A	11	7	14	8	2	1	0	0	27	16
M SC (BIOTECHNOLOGY)	9	9	8	11	1	1	1	0	19	21
PG TOTAL	60	62	28	22	4	3	1	0	93	87
PGDCA	4	1	12	6	0	0	0	0	16	7

Examination Department

ANNEXURE “ C”

ENROLMENT OF STUDENTS FROM DIFFERENT STATES FOR THE ACDEMIC YEAR 2008-09
UNIVERSITY TEACHING DEPARTMENTS

Departments	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
BA LLB(Hons)										
Arunachal Pradesh	0	0	3	3	0	0	0	0	3	3
Assam	9	25	4	4	1	1	0	3	14	33
Bihar	0	2	0	0	0	0	0	0	0	2
Manipur	1	1	1	1	0	0	0	0	2	2
Mizoram	0	0	3	11	0	1	0	0	3	12
Nagaland	0	0	1	0	0	0	0	0	1	0
Tripura	0	0	0	1	0	0	0	0	0	1
West Bengal	0	1	0	0	0	0	0	0	0	1
Meghalaya	5	7	51	63	0	1	0	1	56	72

B Tech (ECE)										
Andhra Pradesh	0	0	0	0	0	0	1	0	1	0
Arunachal Pradesh	1	1	0	0	0	0	0	0	1	1
Assam	27	3	12	2	20	7	15	2	74	14
Bihar	3	1	0	0	0	0	1	0	4	1
Delhi	3	2	0	0	0	0	1	0	4	2
Jharkhand	1	0	0	0	0	0	0	0	1	0
Manipur	0	0	1	0	0	0	0	0	1	0
Uttar Pradesh	3	0	0	0	0	0	0	0	3	0
West Bengal	0	2	0	0	1	0	1	0	2	2
Meghalaya	9	5	6	3	2	1	0	2	17	11
B Tech (IT)										
Assam	34	17	14	3	21	2	20	3	89	25
Bihar	1	0	0	0	0	0	0	0	1	0
Delhi	1	0	0	0	0	0	0	0	1	0
Kerala	0	1	0	0	0	0	0	0	0	1
Manipur	2	1	1	0	1	0	0	0	4	1
Nagaland	1	0	0	0	0	0	0	0	1	0
Sikkim	0	1	0	0	0	0	0	0	0	1
Uttar Pradesh	2	0	0	0	0	0	0	0	2	0
West Bengal	1	0	0	0	1	0	0	0	2	0
Meghalaya	4	4	7	3	1	0	1	0	13	7

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Departments	Gen	Gen	S. T	S. T	S. C	S. C	OBC	OBC	Total	Total
	M	F	M	F	M	F	M	F	M	F
<u>M A</u>										
Arunachal Pradesh	1	0	9	21	1	0	0	0	11	21
Assam	12	10	7	6	1	0	2	8	22	24
Bihar	1	0	0	0	0	0	0	0	1	0
Madhya Pradesh	0	0	0	1	0	0	0	0	0	1
Manipur	0	3	55	22	1	0	0	1	56	26
Mizoram	0	0	18	22	0	0	0	0	18	22
Nagaland	0	1	34	91	0	0	0	0	34	92
Tripura	0	0	0	4	0	0	0	0	0	4
Uttar Pradesh	0	1	0	0	0	0	0	0	0	1
West Bengal	0	2	0	0	0	0	0	0	0	2
Meghalaya	6	40	193	558	1	2	2	3	202	603
<u>M SC</u>										
Arunachal Pradesh	0	0	1	1	0	0	0	0	1	1
Assam	2	5	6	0	0	1	0	0	8	6
Bhutan	1	1	0	0	0	0	0	0	1	1
Jharkhand	1	0	0	0	0	0	0	0	1	0
Manipur	1	1	16	13	0	0	0	0	17	14
Mizoram	1	0	15	12	0	0	0	0	16	12
Nagaland	1	0	26	20	0	0	0	0	27	20
Netherlands	1	0	0	0	0	0	0	0	1	0
West Bengal	4	2	0	0	0	0	0	0	4	2
Meghalaya	27	29	137	154	1	0	0	3	165	186
<u>M LIB INFO SC</u>										
Nagaland	0	0	0	1	0	0	0	0	0	1
Manipur	0	0	0	1	0	0	0	0	0	1
Myanmar	1	0	0	0	0	0	0	0	1	0
Meghalaya	0	1	20	26	0	0	0	0	20	27
<u>M COM</u>										
Nagaland	0	0	3	2	0	0	0	0	3	2
Manipur	0	0	4	0	0	0	0	0	4	0
Meghalaya	4	6	33	38	0	0	0	0	37	44
<u>M B A</u>										
Assam	13	2	2	2	4	2	1	0	20	6
Nagaland	0	0	1	0	0	0	0	0	1	0

Examination Department

Departments	Gen		S. T		S. C		OBC		Total	
	M	F	M	F	M	F	M	F	M	F
Manipur	1	0	0	0	0	0	0	0	1	0
Tripura	0	0	1	0	0	0	0	0	1	0
Bihar	3	0	1	0	0	0	1	0	5	0
Uttar Pradesh	2	0	0	0	0	0	0	0	2	0
Maharashtra	0	0	0	0	1	0	0	0	1	0
Orissa	2	0	0	0	0	0	0	0	2	0
Meghalaya	0	0	4	2	2	1	3	2	9	5

M Ed										
Assam	1	0	0	0	0	0	0	0	1	0
Tamil Nadu	1	0	0	0	0	0	0	0	1	0
Meghalaya	0	0	5	16	0	0	0	0	5	16
M Phil (ARTS)										
Assam	0	1	2	1	0	1	0	0	2	3
Nagaland	0	0	1	0	0	0	0	0	1	0
Meghalaya	5	4	8	12	0	0	1	0	14	16
Ph D (ARTS)										
Andhra Pradesh	0	2	0	0	0	0	0	0	0	2
Arunachal Pradesh	0	0	1	1	0	0	0	0	1	1
Assam	5	3	5	0	0	0	0	0	10	3
Manipur	1	0	17	4	0	0	0	0	18	4
Mizoram	0	0	1	0	0	0	0	0	1	0
Nagaland	0	0	7	3	0	0	0	0	7	3
Uttar Pradesh	1	0	0	0	0	0	0	0	1	0
Meghalaya	46	36	100	134	5	2	1	1	152	173
Ph D (SCIENCE)										
Assam	14	6	8	0	0	0	0	0	22	6
Manipur	4	3	7	3	0	0	0	3	11	9
Mizoram	0	0	2	3	0	0	0	0	2	3
Nagaland	0	0	3	6	0	0	0	0	3	6
West Bengal	3	1	0	0	0	0	0	0	3	1
Meghalaya	27	29	36	43	2	0	5	1	70	73
Ph D (COMMERCE)										
Meghalaya	9	2	3	3	0	0	0	0	12	5

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Departments	Gen		S. T		S. C		OBC		Total	Total
	M	F	M	F	M	F	M	F	M	F
Ph D (LIBRARY SCIENCE)										
Nagaland	0	0	1	0	0	0	0	0	1	0
PG Diploma (ARTS)										
Assam	1	0	0	0	0	0	0	0	1	0
Manipur	0	0	0	1	0	0	0	0	0	1
Nagaland	0	0	2	8	0	0	0	0	2	8
Tripura	0	0	0	1	0	0	0	0	0	1
Meghalaya	1	0	17	31	0	0	1	0	19	31
Education Through Distance Mode										
Assam	0	4	0	0	0	0	1	1	1	5
Maharastra	1	0	0	0	0	0	0	0	1	0
Manipur	0	3	0	0	0	0	0	0	0	3
Mizoram	0	0	4	8	0	0	0	0	4	8
Meghalaya	0	1	6	2	0	0	0	0	6	3

Examination Department

ANNEXURE: "D"

ENROLMENT OF STUDENTS FROM DIFFERENT STATES FOR THE ACDEMIC YEAR 2008-09: AFFILIATED COLLEGES

States	Gen		S. T		S. C		OBC		Total	
	M	F	M	F	M	F	M	F	M	F
Andhra Pradesh	0	0	0	0	0	1	0	0	0	1
Arunachal Pradesh	16	42	99	133	7	8	0	6	77	139
Assam	295	208	172	101	49	24	114	79	592	400
Bihar	15	13	3	2	0	2	2	0	20	17
Delhi	2	0	0	0	0	0	0	0	2	0
Gujarat	192	3	0	0	0	0	0	0	192	3
Haryana	1	0	0	0	0	0	0	0	1	0
Himachal Pradesh	1	0	0	0	0	0	0	0	1	0
Jharkhand	32	18	3	5	2	1	0	0	37	24
Karnataka	2	1	0	0	0	0	0	0	2	1
Kerala	21	13	0	0	0	0	0	0	21	13
Madhya Pradesh	5	0	0	0	0	0	0	0	5	0
Maharashtra	0	2	0	0	0	0	0	0	0	2
Manipur	29	46	650	530	35	3	0	7	580	543
Mizoram	10	16	487	528	53	41	0	3	550	588
Nagaland	17	25	452	538	58	47	0	1	527	611
Nepal	1	15	0	0	0	0	0	0	1	15
Punjab	0	1	0	0	0	1	0	0	0	2
Rajasthan	0	1	0	0	0	0	0	0	0	1
Tripura	16	32	112	97	6	4	6	10	140	143
Uttar Pradesh	2	3	0	0	0	0	0	1	2	4
Vietnam	0	4	0	0	0	0	0	0	0	4
West Bengal	4	0	0	1	0	2	0	0	4	3
Meghalaya	1880	3219	10670	12560	3	30	137	64	12907	15978
Foreign Countries										
Bangladesh	0	2	0	0	0	0	0	0	0	2
Bhutan	56	35	0	0	0	0	0	0	56	35
Korea	0	1	0	0	0	0	0	0	0	1
Zambia	1	0	0	0	0	0	0	0	1	0
Vietnam	0	4	0	0	0	0	0	0	0	4
Nepal	1	15	0	0	0	0	0	0	1	15

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ANNEXURE "E"
RESULT ANALYSIS FOR THE YEAR 2008 EXAMINATIONS

Courses	Number of students appeared										Number of students passed										TOTAL																					
	Gen		S. T.		S. C.		OBC		Total		General					S. T.						S. C.					OBC															
	M	F	M	F	M	F	M	F	M	F	I	II	SP	I	II	SP	I	II	SP	I		II	SP	I	II	SP	I	II	SP	I	II	SP	I	II	SP							
B.A. (Pass)	113	146	872	1188	17	16	23	15	1025	1365	1	39	47	0	58	71	0	39	572	0	119	1065	0	6	3	0	3	7	0	13	4	0	2	5	1	147	349	365	626	0	162	1149
B.A. (Hons)	122	170	736	1050	11	35	6	12	875	1267	4	54	47	11	65	57	22	231	314	26	547	449	0	2	3	0	2	19	0	2	1	0	1	5	26	349	365	626	149	615	530	
B.Sc. (Pass)	2	2	21	11	2	1	0	0	25	14	0	2	0	1	1	0	0	16	4	0	8	2	0	0	1	0	1	0	0	0	0	0	0	0	19	5	1	10	2			
B.Sc. (Hons)	83	82	184	204	1	12	3	1	271	288	55	19	1	53	17	1	80	94	1	84	103	2	0	0	1	1	2	5	0	1	0	0	0	1	135	114	3	138	122	9		
B.Com. (Pass)	112	45	138	65	5	8	9	0	284	118	0	12	97	0	7	32	0	9	123	0	6	47	0	1	2	0	1	1	0	2	1	0	0	0	0	24	23	0	14	80		
B.Com. (Hons)	36	36	130	60	4	1	1	2	300	99	17	47	21	11	18	3	2	86	96	3	35	16	0	1	1	0	0	1	0	1	0	0	1	19	135	118	223	14	54	20		
B.Sc. Home																																										
Sc. (Hons)	0	3	0	17	0	0	0	0	20	0	0	0	3	0	0	0	0	0	12	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	5	0		
B.B.A. (Hons)	19	9	30	7	1	1	0	0	50	17	8	9	0	6	3	0	18	10	0	5	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	26	20	0	11	4	0	
B.C.A. (Hons)	2	4	12	4	0	0	0	0	14	8	0	2	0	2	1	1	4	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	0	2	3	1		
B.C.A. (Hons) (Pre-Revised)	0	0	2	2	0	0	0	0	2	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0		
B.Ed	48	50	110	167	13	14	19	13	190	264	29	11	3	31	6	5	70	26	7	91	82	5	1	4	3	2	3	7	1	6	4	1	4	1	101	47	17	125	97	18		
L.L.B	16	8	23	28	1	0	1	0	41	36	0	12	0	0	4	0	0	18	0	0	24	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31	0	0	28	0		

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AWARD OF M PHIL / PH D DURING THE YEAR 2008																								
	AWARD OF M PHIL										AWARD OF PH D													
	Gen		S. T.		S. C.		OBC		Total		Gen		S. T.		S. C.		OBC		Total					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
ARTS	0	0	0	0	0	0	0	0	0	0	9	7	7	5	0	0	0	0	16	12				
SCIENCE	5	0	0	0	0	0	0	0	5	0	2	3	8	3	0	0	0	0	10	6				
COMMERCE	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0				
LIBRARY SC.	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3				
Grand Total	5	0	0	0	0	0	0	0	5	0	11	11	16	10	0	0	0	0	27	21				

Examination Department

Courses	Gen						S. T.						S. C.						O B C						TOTAL											
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Regular																																				
M A																																				
Anthropology	0	0	2	4	0	0	0	0	0	0	0	0	1	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2
Economics	1	4	19	26	0	0	0	0	20	30	1	0	0	2	2	0	4	8	1	4	18	1	0	0	0	0	0	0	0	0	0	5	8	1	6	20
Education	0	1	5	54	0	0	0	1	5	56	0	0	0	1	0	0	4	1	0	25	24	2	0	0	0	0	0	0	0	1	0	0	0	0	5	1
English	3	5	19	40	0	0	0	0	22	45	0	2	1	0	5	0	0	8	10	0	21	13	0	0	0	0	0	0	0	0	0	10	11	0	26	13
Garo	0	0	11	12	0	0	0	0	11	12	0	0	0	0	0	0	1	5	5	0	8	1	0	0	0	0	0	0	0	0	0	1	5	5	0	8
Geography	2	3	16	7	0	0	1	0	21	10	2	0	0	3	0	0	6	9	0	3	4	0	0	0	0	0	0	0	0	1	0	0	0	8	10	6
Hindi	3	4	0	4	0	1	1	2	4	11	1	2	0	2	2	0	0	0	0	0	2	2	0	0	0	1	0	0	1	0	0	0	1	0	2	0
History	0	0	21	27	0	0	0	0	21	27	0	0	0	0	0	0	0	11	7	1	12	5	0	0	0	0	0	0	0	0	0	11	7	1	12	5
Khasi	0	0	4	39	0	0	0	0	4	39	0	0	0	0	0	0	0	4	0	7	30	0	0	0	0	0	0	0	0	0	0	4	0	7	30	0
Linguistics	0	0	7	16	0	0	0	0	7	16	0	0	0	0	0	0	2	3	1	6	7	3	0	0	0	0	0	0	0	0	0	2	3	1	6	7
Philosophy	1	4	23	17	0	0	0	0	24	21	0	1	0	0	2	1	0	6	7	2	7	3	0	0	0	0	0	0	0	0	0	0	7	7	2	9
Political Sc.	1	0	19	22	0	0	0	0	20	22	0	1	0	0	0	0	1	10	7	0	12	5	0	0	0	0	0	0	0	0	0	1	11	7	0	12
Sociology	1	4	15	18	0	0	0	0	16	22	0	1	0	0	2	0	2	12	0	3	14	1	0	0	0	0	0	0	0	0	0	2	13	0	3	16
M A (TOTAL)	12	25	163	206	0	1	2	3	177	316	4	7	1	8	13	1	21	78	38	53	101	36	0	0	1	0	2	1	0	1	0	27	66	39	62	37
M SC																																				
Anthropology	0	3	6	9	0	0	0	0	6	12	0	0	0	0	3	0	5	1	0	8	1	0	0	0	0	0	0	0	0	0	0	5	1	0	8	4
Biochemistry	3	2	4	9	0	0	0	0	7	11	3	0	0	2	0	0	4	0	0	9	0	0	0	0	0	0	0	0	0	0	0	7	0	0	11	0
Biotechnology	5	5	7	9	0	0	0	0	12	14	4	1	0	5	0	0	7	0	0	9	0	0	0	0	0	0	0	0	0	0	0	11	1	0	14	0
Botany	1	1	9	14	0	0	0	0	10	15	1	0	0	1	0	0	2	6	0	7	3	0	0	0	0	0	0	0	0	0	0	3	6	0	8	3
Chemistry	4	2	11	8	2	1	0	0	17	11	2	1	0	2	0	0	5	2	0	3	2	0	0	1	0	0	1	0	0	0	0	7	4	0	5	3
Mathematics	2	2	13	11	0	0	0	0	15	13	1	0	0	1	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	2	0
RDAP	0	0	4	9	0	0	0	0	4	9	0	0	0	0	0	0	4	0	0	8	0	0	0	0	0	0	0	0	0	0	0	4	0	0	8	0
Zoology	4	0	8	12	1	0	0	0	13	12	2	1	0	0	0	0	3	4	1	5	2	0	0	1	0	0	0	0	0	0	0	5	6	1	9	2
Physics	4	1	13	8	0	0	0	0	17	9	2	2	0	0	1	0	6	3	0	5	1	0	0	0	0	0	0	0	0	0	0	8	5	0	5	2
Statistics	1	0	2	2	0	0	0	0	3	2	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0
TOTAL	24	16	77	91	3	1	0	0	104	108	15	5	0	11	4	0	41	17	1	60	9	0	0	2	0	0	1	0	0	0	0	56	24	1	71	14
M Lib Info Sc																																				
Library	0	0	7	18	0	0	0	0	7	18	0	0	0	0	0	0	1	6	0	4	8	1	0	0	0	0	0	0	0	0	0	1	6	0	4	8
TOTAL																																				

Examination Department

AWARD OF M PHIL / PH D DURING THE YEAR 2008																				
AWARD OF M PHIL											AWARD OF PH D									
Department	Gen		S. T.		S. C.		OBC		Total		Gen		S. T.		S. C.		OBC		Total	
/ Centre	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Adult Edn	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Anthroplogy	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3
Economics	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	1
Education	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	2
English	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Garo	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Geography	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	0
Hindi	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	2	3
Linguistics	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
Philosophy	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4	0
Total (Arts)	0	0	0	0	0	0	0	0	0	0	9	7	7	5	0	0	0	0	16	12
Biochemistry	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Botany	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	2	4
Chemistry	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
Mathematics	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
Physics	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Zoology	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	5	0
Total (Sc)	5	0	0	0	0	0	0	0	5	0	2	3	8	3	0	0	0	0	10	6
Commerce	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Library Sc.	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3

XI

HINDI CELL

In-charge : Dr. Ram Kripal Tiwari (Deputy Registrar)
Telephone : 2721093

In pursuance of the Official Language Policy of the Government of India to promote the Progressive use of Hindi on a modest scale a Hindi Cell was established. With one post of Junior Hindi Translator and one post of Hindi typist.

The supervision of proper implementation of Rajbhasha Policy is done by an Official language Implementation Committee of the University. The Vice Chancellor is the Chairman and In-Charge, Hindi Cell is the Member secretary of the Committee. The statutory Officers of this University viz. Registrar, Finance Officer, Controller of Examination, Librarian, Head, Department of Hindi and all Deputy Registrars along with two office members of the Shillong Town Official Language Implementation Committee have been designated as Members of the said Committee. Till date this Committee has convened 37 Meetings and last meeting of First Quarter of the year (2009) was held on 26th March, 2009.

During the year under Report a team of department of Official language, Ministry of Human Resource Development, Government of India reviewed the Progressive use of Hindi on 20th March, 2009.

During the year 2008-09 two Hindi Workshops at Shillong and Tura Campus of the University were conducted for the employees in the context of removing the hesitation to work in Hindi on files etc. The significant achievement of the Cell was a Two Day National Hindi Seminar on the theme of Rajbhasha Hindi ke Prachar – prasar me Shiksha aur Bhasha Vigyan Ki Bhumika. The Seminar was organized on 23-24th March, 2009, in which following resource persons were invited.

1. Professor. Syed Rahamatullah, Head, Department of Hindi, University of Madras, Chennai.
2. Professor Kamal Dixit, Former Head Department of Journalism and

Hindi Cell

Communication, Makhanlall Chaturvedi Journalism and Communication University, Bhopal.

3. Professor Krishna Kumar Goswami retired Professor of Linguistics, Central Institute of Hindi, Agra.

The Office member of the Shillong Town Official Language Implementation Committee and Teaching & Non-Teaching Staff of this University attended the seminar.

With an objective to enhance the use of Rajbhasha among the University Community as usual Hindi Divas on 14th September 2008 and Hindi Fortnight w.e.f. 14th September 28, 2008, was observed. Some Hindi competitions like Hindi noting/drafting, Hindi poem recitation, Hindi extempore speech and Hindi handwriting were conducted for the employees at both campuses. The employees of the Hindi competitions were awarded cash prizes and a recitation certificate during the valedictory function of the Hindi Fortnight.

XII

SCHEDULED CASTES / SCHEDULED TRIBES CELL

During the year 2008 -2009, the Scheduled Castes and Scheduled Tribes Cell was fully engaged with work related to the implementation of the Reservation Policies for SC/ ST and other backward classes, in appointments/ promotions to the teaching and Non- teaching posts and also in admissions of students to various Post- graduate programmes in the University and affiliated colleges in co- ordination with the Dean Students Welfare, Director College Development Council and Statistical Cell.

The University has constituted a Standing Committee for SC/ ST to strengthen the implementation, evaluation and monitoring of reservation orders/ guidelines as stated above.

The SC/ ST in co –ordination with the Establishment I & II Section of the University has been corresponding with the University Grants Commission and Ministry of Human Resource Development for information and data required to be furnished in regard to the position of the teaching and non- teaching reservation quota, different categories and filling up of backlog vacancies of SC/ ST posts of the University.

It may also be stated that the Reservation policies in the University are as per the guidelines issued by the Ministry of Human Resource Development/ Government of India from time to time. The progress report for special recruitment Drive for 2008 -2009 teaching position is provided in Proforma II A and Non- teaching in Proforma II A & II B

Scheduled Castes/Scheduled Tribes Cell

SPECIAL RECRUITMENT DRIVE 2008- 2009

PROGRESS REPORT

PROFORMA II A

(Consolidated information in respect of Central University (Autonomous Body))

DIRECT RECRUITMENT

Classification of posts		Scheduled Castes			Scheduled Tribes			Other Backward		
		No. of Backlog vacancies identified (as on 1.11.2008)	No. of Backlog vacancies Advertised	No. of Backlog vacancies filled	No. of Backlog vacancies identified (as on 1.11.2008)	No. of Backlog vacancies Advertised	No. of Backlog vacancies filled	No. of Backlog vacancies identified (as on 1.11.2008)	No. of Backlog vacancies Advertised	No. of Backlog vacancies filled
Group - A or equivalent	Professor	5	5	NIL	3	3	NIL	NIL	NIL	NIL
	Reader	5	5	NIL	3	3	3	NIL	NIL	NIL
	Lecturer	11	11	1	NIL	NIL	NIL	NIL	NIL	NIL

The above posts were advertised vide advt. No. 1-4/Estt. II (B)/07 -08 -1170, dated 23rd July, 2008 and advt. No. 1-4/Estt. II (B)/07-08 -1369, dated 10th December, 2008, and copy of the above advertisements were forwarded to the Commission as well as to the Ministry for SC and ST and to the Chief Commissions for PWD with the request to kindly forward the applications of those willing candidates to enable us to fill up the backlog vacancies. In the process of last Selection Committee held between 26.02.09 to 21.03.09 the University could fill up only 1 (one) post of lecturer for SC and 3 (three) posts of Readers by ST category. The University is making every effort to fill up the backlog reserved but due to non availability of suitable candidates the backlog vacancies reserved unfilled. These posts however, will be readvertised again in the near future.

SPECIAL RECRUITMENT DRIVE 2008- 2009

PROGRESS REPORT

PROFORMA II A

(Consolidated information in respect of Central University (Autonomous Body))

DIRECT RECRUITMENT

Classification of Posts	Scheduled Castes			Scheduled Tribes			Other Backward Classes		
	No. of Backlog Vacancies identified (as on 1.11.08)	No. of Backlog vacancies Advertised	No. of Backlog vacancies Filled	No. of Backlog Vacancies identified (as on 1.11.08)	No. of Backlog vacancies Advertised	No. of Backlog vacancies Filled	No. of Backlog Vacancies identified (as on 1.11.08)	No. of Backlog vacancies Advertised	No. of Backlog vacancies Filled
1	2	3	4	5	6	7	8	1	
Group A or Equivalent									
Group B or Equivalent	3	3	-	1	1	-	-	-	-
Group C or Equivalent	-	-	-	-	-	-	-	-	-
Group D or Equivalent	-	-	-	-	-	-	-	-	-
Total	3	3	-	1	1	-	-	-	-

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**SPECIAL RECRUITMENT DRIVE 2008- 2009
PROGRESS REPORT PROFORMA II B
(Consolidated information in respect of Central University (Autonomous Body))
PROMOTION**

Classification of Posts	Scheduled Castes			Scheduled Tribes		
	No. of Backlog vacancies identified (as on 1.11.2008)	No. of Backlog vacancies for which candidates are not available even in the extended zone of consideration	No. of Backlog vacancies Filled	No. of Backlog vacancies identified (as on 1.11.2008)	No. of Backlog vacancies for which candidates are not available even in the extended zone of consideration	No. of Backlog vacancies Filled
1	2	3	4	5	6	7
Group A or Equivalent						
Group B or Equivalent	-	-	-	-	-	-
Group C or Equivalent	-	-	-	-	-	-
Group D or Equivalent	-	-	-	-	-	-
Total	-	-	-	-	-	-

ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2008-09: UNIVERSITY TEACHING DEPARTMENTS

Courses	Gen		S.T		S.C		OBC		Total	Total
	M	F	M	F	M	F	M	F		
BALLB (Honoutd)	15	36	63	83	1	3	0	4	79	129
B Tech (ECE)	47	14	19	5	23	8	19	4	108	31
B Tech (IT)	46	24	22	6	24	2	21	3	113	35
M.A	20	57	316	725	4	2	4	12	344	796
M. Sc	39	38	201	200	1	1	0	3	241	242
M Com	4	6	40	40	0	0	0	0	44	46
M Lib Info Sc	1	1	20	28	0	0	0	0	21	29
MBA	21	2	9	4	7	3	5	2	42	11
M Ed	2	-	5	16	-	-	-	-	7	16
M Phil	5	5	11	13	0	1	1	0	17	19
Ph D (Arts)	53	41	131	142	5	2	1	1	190	186
Ph D (Science)	48	39	56	55	2	0	5	4	111	98
Ph D (Commerce)	9	2	3	3	0	0	0	0	12	5
Ph D (Library Science)	0	0	1	0	0	0	0	0	1	0
PG Diploma (Arts)	2	0	19	41	0	0	1	0	22	41
Distance Education										
B Ed (Special Education)	-	6	4	9	-	-	-	1	4	16
PG Diploma (Floriculture)	1	1	5	1	0	0	1	0	7	2
Certificate (Floriculture)	-	1	1	-	-	-	-	-	1	1
GRAND TOTAL	313	273	926	1371	67	22	58	34	1364	1700

Scheduled Castes/Scheduled Tribes Cell

Table 1 : Students staying in University Hostels as on 31st March, 2009.

#	HOSTELS Name	# of students			category		
		Staying as on 31/03/09	New allotment	Total as on 26/05/09	ST	SC	OBC
1	Lasubon (U. G. Women)	22		22	14	2	1
2	Miktoksi (U. G. Women)	87	1	88	31	4	2
3	Persara (P. G. Women)	60	1	61	60		
4	Kyllang (P.G. Men)	98	24	122	113		2
5	Saramati (P.G. Men)	45		45	39		
6	Balgito (R.S. Women)	37		37	31		
7	Sensiar (P.G. Women)	140	4	144	138	2	1
8	Chhinlung (R.S. Men)	36		36	27		
9	Sohpetbneng (R.S. Men)	29		29	15	2	2
10	Japfu (P.G. Men)	94	1	95	85	1	
11	Arbella (U.G. Men)	52		52	2	1	3
12	Symper (U.G. Men)	78		78	9	12	
13	Rengira (U.G. Men)	84		84	29	27	5
	Total	862	31	893	593	51	16

XIII

UNIVERSITY FINANCE

Finance Officer : Mr. P.C. Majhi, IA & AS
Telephone : 2721021 (O), 2551838 (R), 9863021602(M).
E-mail : fo@nehu.ac.in.

Finance Department comprises of eight sections and the main functions of the Department are as follows:

- i. Preparation of the Budget of the University.
- ii. Receipts and payments of the project grants fess fellowships and scholarships.
- iii. Payment of salary, bonus, festival advance, leave encashment and other personal claim of the employees and other officials.
- iv. Compilation of accounts of the University and preparation of Annual Accounts.
- v. Maintenance of provident fund, NDCPS fund and disbursement of long term advances like house building, car, scooter, computer etc.
- vi. Controller all recurring and non-recurring expenditures both under Plan and Non-Plan.
- vii. Managing the fund flow and cash flow position of the University and investment of various funds.
- viii. Conducting internal Audit of the various departments and Centres of the University, Sections were conducted during the year.
- ix. Pre-auditing of all proposals involving financial implication.
- x. Payment of pensionary benefits to the retired/ demised NEHU employee during the year 2008-09, pensionary benefits and family pension in respect of 26 retired cases were finalized and 265 pension cases of pre- 2006 revised pension was finalized, GPF final payments were also made against 30 retired personnels. In compliance of the Guidelines issued by the Government of India, Ministry of Human Resource Development for adoption of the Common format of accounting the University has prepared the Annual Accounts of 2007-08 on accrual basis and the Account was approved by the 55th Meeting of the Finance Committee held on 30-10-2008, by the 135th Meeting of the Executive Council held on 31-10-2008 and by 21st Meeing of the University Court held on 7th November, 2008.

University Finance

The receipt and Payment Account of the University for the year 2008-2009 is summarized as follows:

A. NON-PLAN

RECEIPT			PAYMENT		
Grants from UGC Internal Receipt	74,85,38,000/-	78,45,75,598	Salary & allowances	52,29,59,000	58,52,04,000
	3,60,37,598/-		Pension /DCRG	6,22,45,000	
			<u>Non-Salary</u>		
			1. Revenue	15,96,88,536	22,40,45,000
			2. Capital	6,43,56,464	
		78,45,75,598			27,92,49,000

B. PLAN & UPE

RECEIPT			PAYMENT		
Grants from UGC	57,46,14,000	57,46,14,000	Capital	54,90,52,077	54,90,52,077

C- OTHERS

RECEIPT			PAYMENT		
Ministry of Tribal Affairs.	-	-	Capital	9,24,688	9,24,688
Ministry of Social Justice	57,44,480/-	57,44,480/-	Capital	1,07,37,291	1,07,37,291
Sponsored Scheme, UGC,DST,C SIR, GOI etc.	22,34,90,770	22,34,90,770	Revenue & Capital	19,54,27,673	19,54,27,673

XIV

Students' Services and Amenities

STUDENTS' WELFARE CELL

Dean Students' Welfare : Professor R. N. Sharan
Telephone : (0364) 272 1181; 1182(O), 09436104164(M)
E-mail : dsw@nehu.ac.in.

The office of the Dean of Students' Welfare continued to serve as the nodal agency for student services and their welfare. The major concerns of the office have been the management of the Halls of Residences of the post-graduate, undergraduate and research students, generating and issuing of computerized identity cards of all students, organizing academic study tours through the Departments, co-ordination of students' sports and cultural activities, conduct of elections to the Students Union, award of the Ph. D/M. Phil/Non-Net Fellowships and post-graduate scholarships, grant to outstanding students, and grant of Students' Aid to economically weak students. This office also facilitates admission of foreign students.

Residence in Hostels: In Shillong Campus the number of Students who were given hostel accommodation during the year 2008-2009 is as follows:

	ST	SC	GEN	OBC	Total
R. S. Men	42	02	19	02	65
Women	31	00	06	00	37
Men	237	01	24	00	262
Women	198	02	01	04	205
UG Men	40	40	126	08	214
Women	45	06	56	03	110
TOTAL	593	51	232	17	893

Students' Services and Amenities

Study Tour: The office coordinated the study tours of the following seventeen academic Departments from Shillong Campus:

(I) Anthropology, (II) Biotechnology & Bioinformatics, (III) Botany, (IV) Centre for Creative Studies, (V) Centre for Environmental Studies, (VI) Chemistry, (VII) Commerce, (VIII) English, (IX) Education, (X) Geography (XI) Khasi, (XII) Library & Information Science, (XIII) Linguistics, (XIV) Mathematics, (XV) Philosophy, (XVI) Political Science, (XVII) Zoology.

Sports Activities: The following sports activities were conducted during the year 2008-2009:-

Handiqe Memorial Inter-Hostel Volleyball Tournament organised by Japfu Halls of Residence.

P.C. Lalmuanpui Inter-Hostel Basketball Tournament organised by Sensiar Halls of Residence.

Romengo Murry Memorial Inter-Hostel Table Tennis Tournament organised by Saramati Halls of Residence.

The Post-Graduate students participated in the NEHU Inter-College Basketball & Cricket Tournament, Badminton competition, Table Tennis competition organised by Sports Department, NEHU.

The DSW office supported the conduct of the following additional students' activities:

An order that the term of the NEHUSU and of the Academic Calendar coincides, the Elections to the Union Executive Committee were held in 15th October, 2008 and the new office-bearers took charge soon thereafter. DSW office supported the annual event of NEHUSU to showcase talents of students of the university. During 2008-09 the Varsity Week was held from 19th March, 2009 to 30th April, 2009 and the same concluded with a week of celebrations from 22nd April, 2009 onwards where most of the final competitions took place. Other events organized by the NEHUSU were Parting Social, Fresher Social and Advance Christmas.

Scholarships/Aid Fund: During 2008-09, 97 NEHU Post-graduate Scholarships (including ST/SC students) were awarded.

Fellowships to the M. Phil/Ph. D Students: During 2008-09, two hundred and six eligible Research Scholars were selected for the award of the UGC Non-NET fellowship. Each Ph. D. scholar was awarded Rs. 5000/- per month while Rs. 3000/- per month was awarded to M. Phil scholars.

Grant to Outstanding Students: 31 post graduate students toppers from all Departments including Tura Campus have been awarded cash amount of Rs. 4, 500/- per student.

Gandhi Smriti Scholarship: Four students were awarded scholarship of Rs. 3000/- per person namely (1) Ms. Elbina Syiem, Department of Philosophy, (2) Mr. Glorystar Syiemlieh, Department of Philosophy, (3) Ms. Sumi Paul, Department of Botany, and (4) Mr. Amosperson Lamin, Department of Bio-Technology & Bio-Informatics.

SPORTS DEPARTMENT

In-Charge : Professor B. Kharbuli
Telephone : 2225110
E-mail : bkharbuli@hotmail.com

The Sports Department has been able to coach and field the NEHU football team which qualified in the All India Inter- University tournament in the year 2007 at Annamalai University and was allowed to directly participate in the East Zone Inter-University tournament hosted by Tripura University, Agartala in the year 2008 from 19-27th October 2008. The East Zone final tournament was played between NEHU and Mizoram University and NEHU lost by a solitary goal by penalty. The overall performance of the NEHU team was satisfactory.

The Sports Department was invited by the directorate of Sports and Youth Affairs, Government of Meghalaya, to help and assist in the overall organization of the College Fiesta-2008 which was held from 5-13th December 2008 at the Jawaharlal Nehru Sports Complex, Polo Grounds, Shillong. During the College Fiesta, the Sports Department of NEHU could collaborate with the Satyam Computers Ltd, Hyderabad and they have sponsored Certificates and mementoes only for Football for Men. This final football tournament was called the Satyam Football Challenge 2008 and was won by the Kiang Nangbah Government College, Jowai, Jaintia Hills.

During the Academic Year of 2008-09 the department also organized and conducted the Vice-Chancellor Challenge Cup 2009 which was a follow up of the last year's tournament 2008. The team from the Ministry of Human Resources Development, Government of India, also took part in this tournament along with the Shillong Cricket Association team and NEHL Non Teaching Staff Association. The

Students' Services and Amenities

tournament was inaugurated by the Hon'ble Vice- Chancellor of NEHU, Prof. P.Tandon, who was also the Chief Guest of the tournament at the 2-2-09 and the closing Ceremony was on 4-2-09 in which the Finance Officer, Mr. P.C.Majhi, IA&AS, was the Chief Guest. The overall team championship was won by the Shillong Cricket Association Team.

During the year 2008-09 the department worked closely with the North Eastern Hill University Students' Union, the wardens of various hostels and Campus Welfare Committee of Residents in the campus. The Indoor stadium has been made functional for all students and two Badminton Courts and Table tennis table were installed in the stadium to this the 24 gym stations were added. The same were made available for the Community Hall where many campus residents spent some of their time to sweat out.

The Department has been involved in assisting in the various events conducted by NEHU Students' Union especially the Varsity Fest 2008 which was held from 11th March to 11th April 2008. The same was repeated in the year 2009 when the University Fest was held from 19th March to 23rd April 2009. These events bring friendships, memorable moments, joy and the essence of responsibility to our students at large and especially the organizers of the University Fest. His Excellency, the Governor of Meghalaya and Rector of the University, Shri. R.S.Mooshahary was the Chief Guest in the Closing ceremony of this festival.

NATIONAL SERVICE SCHEME

Programme Co-ordinator : Dr. Jemino Mawthoh
Telephone : 2721151, 1152, 1153
Fax : 2721151
E-mail : nssnehu@rediffmail.com

The National Service Scheme (NSS) envisaged to give an extension dimension to higher education and to establish meaningful linkage between the Campus and the community. It provides opportunity to students for socially productive works and orient them to community service. An important feature of the NSS is that its programmes are organized by the students themselves under the guidance of their teachers as Programme Officers. NSS aims at arousing social consciousness of the

youth with an overall objective of personality development of students through community service. NSS is working for integrated development of adopted villages and slums through its regular activities and special camping programmes. Over the years, NSS has made significant contribution in the field of mass literacy, health and family welfare, adolescence education, personality development, skill improvement, environment and rural reconstruction activities for creating tangible and durable community assets. Special campaigns/ programmes were also launched on Substance abuse, HIV and AIDS, social evils, mass immunization, blood donation, disaster management, afforestation, Integration and social harmony. Concerted efforts are also made for improving the living conditions of economically and socially weaker sections of the society. The motto 'Not Me but You' underlines the guiding principle of the NSS.

The total enrolment strength of Volunteers for the year 2008 – 09 was 14,765 (Male-5827, Female-8938) comprising volunteers from 39 colleges, 2 P.G Units and 8 Higher Secondary schools. The number of NSS Programme Officers was 59 out whom 38 are trained.

Many Activities were undertaken by the different NSS units.

The details are given below:

Republic Day Parade Camp:

Pre Republic Day Parade Camp: 10 NSS Volunteers from various colleges of Meghalaya attended the Camp at Baripada, Orissa. The event took place from the 14th of November, 2008 till the 23rd of November, 2008.

Republic Day Parade Camp: Mr. Bhakupar Lyngdoh of BBS College and Palvy Dora Kharkongor of Shillong College attended the Camp at New Delhi from the 1st of January, 2009 till the 31st of January, 2009.

Youth Exchange Programme at China :

Ms. Felisha Mawlong, NSS volunteers of Lady Keane College was nominated by the Ministry Youth Affairs & Sports as member of the Indian Youth Delegation to China from 29th July 2009.

Training/Workshops:

An NSS Orientation Programme for Principals, Programme Officers and NSS Volunteers was held on the 29th of May, 2008. Prof.B.S. Mipun, NSS Programme Officer, PG Unit, NEHU, Shillong, attended a Three day Training on Career

Students' Services and Amenities

Counseling for youth Functionaries at RGNVD, Tamil Nadu from the 7th of July, 2008 till the 9th of July, 2008. The NSS Unit of St. Edmunds College, Shillong organized a Mock Drill on Disaster Management on the 25th of August in collaboration with the Civil Defence Personals. Programme Officers from 4 colleges in Meghalaya attended a TOT on national Integration on Social Harmony from the 18th of September, 2008 till the 22nd of September, 2008 at RGNVD, Tamil Nadu. NSS Unit of Sngap Syiem College, Mawkyrwat organized a Seminar on the theme of Career guidance, Moral Values and Civic Sense on the 1st of October, 2008 at the college campus. 107 Volunteers attended the Programme. 15 Programme Officers from different NSS Units of Shillong attended a meeting held in connection with the Inter State Youth Exchange and Homestay Programme on the 13th of October, 2008 at NSS Cell, NEHU Campus.

183 NSS Volunteers from various Colleges of shillong attended a specialized Training on Disaster Risk Management-First Aid, Search and Rescue from the 17th of November, 2008 till the 22nd of November, 2008. This training was organized by the Office of The Deputy Commissioner, East Khasi Hills and UNDY.A Training Programme on Disaster Management, First Aid, Search and Rescue was conducted at Synod College from the 25th of November, 2008 till the 27th of November, 2008 in which 50 NSS Volunteers participated. 25 NSS Volunteers from Tirof Sing Memorial College attended a Training Programme on Disaster Management from the 8th of December, 2008 till the 13th of December, 2008. this training was organized by the Office of the SDO (Civil), Mairang. Two Programme Officers of Shillong College attended an Orientation Course at TORC, Narendrapur in January, 2009. Mr. I. Rafique, an NSS Programme Officer of Christian Girls Higher Secondary School attended a Refresher Course from the 2nd of February, 2009 till the 6th of February, 2009 at TORC, Narendrapur. Training of the Programme Officers on Social Harmony and National Integration was held at the NEHU Guest House from the 17th of February, 2009 till the 20th of February, 2009. Fifteen Programme Officers attended the Training Programme. Programme Coordinator, Dr. Jemino Mawthoh, attended a training Programme on Community Radio at RGNVD, Tamil Nadu on the 5th of March, 2009 till the 6th of March, 2009.

Blood Donation Camp:

Ten blood donation camps conducted during the period.

Five Number of Colleges that participated in the camps.

St. Edmund's College, Shillong 29 Vols and 29 units of Blood donated

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St. Anthony's College, Shillong	32 Vols and 32 units of Blood donated
UCC College, Shillong	5 Vols and 5 units of Blood donated
Shillong College, Shillong.	37 Vols and 37 units of Blood donated
Tura Government College, Tura,	20 Vols and 20 units of Blood donated

Number of units of blood donated : 113 Units.

Other Activities:

25 volunteers of NSS Unit of Shillong College conducted a Cleaning Drive within the college premises on the 2nd October, 2008.

180 NSS volunteers of Sngap Syiem College, Mawkyrwat organized a Cleaning Drive in the college campus on the 14th October, 2008

The Seng Khasi College NSS Unit organized a cleaning drive on the 4th October, 2008 in the college campus.

The NSS Unit of Christian Academy College organized a cleaning drive on the 24th September, 2008 which falls on NSS Day Celebration in the campus in which 150 NSS vols participated in the event.

NEHU Data and Voice Network (NDVN)

In-charge : Professor R. N. Sharan

Telephone : 2722121

E-mail : admin@nehu.ac.in

The NEHU Voice and Data Network (NDVN) Facility, commissioned in 2003 as VSAT Facility, continues to give data (Internet) and voice (telephony) access in a convergence mode to all academic and administrative departments besides other facilities/buildings on the campus. The network now has over 1000 active connections for both voice and data. The dedicated and highly committed team of personnel has kept the down-time to a minimum during the year of the report. In recognition of the exceptional services rendered, Mr. Ivan Lyngdoh, Technical Officer, was awarded with the University's Appreciation Award 2008.

Students' Services and Amenities

The present architecture of the network has the following components:

Internet Access

- a. 2 Mbps Internet Leased Line This connection, sponsored by the UGC-INFLIBNET for exclusive access to over 2500 scholarly periodicals available under INFONET scheme, was upgraded from 1 Mbps on VSAT to 2 Mbps on leased lines. It also supports general Internet browsing.
- b. 8 Mbps Internet Leased Line from BSNL: This connection from BSNL, costing Rs. 23 lakhs per annum, provides access to Internet to all users of NDVN.

Data Network (LAN). All NDVN servers and applications, which include DNS, DHCP Web Servers, Mail Servers, Proxy Servers, Gateway filtering for Viruses and Spams, Antivirus Distribution Server, Network Monitoring software and DHCP, are now running on the state-of-the-art HP Blade Chassis C7000 with 9 active Blade Servers . The five old Tower servers (IBM, Compaq & Wipro) are also being utilized as Residence proxy, voice applications and backup.

The network now has a higher capacity Extreme Summit Black Diamond 8806 core switch to be able to meet the higher demand of bandwidth in the network replacing the End of Life (EOL) Avaya 580. All the EOL L2 24 ports managed switches across the network have been replaced with higher version and new Extreme Summit X150-24t & Extreme Summit X150-48t L2 switches with gigabit uplinks. This provide better performance and gives more ports availability to meet the requirements of extending the network and internet access to labs and offices. The fibre optics cable (FOC) backbone and structured cabling for voice and data connections have been extended to Centre of Study's building, Guest House, Biotechnology Dept., Computer Centre, International Hostel, School of Technology building, Multi-purpose Convention Hall and Law Dept. Internet accesses as well as IP authenticated e-journals from UGC-Infonet E-journal consortium, Library's OPAC software and 'sharing of resources' are the applications currently running on the network. Wireless network (Wi-Fi) is being implemented in the conference rooms, Multi-purpose Convention Hall, Guest House and in all academic departments across the campus. Limited access is provided during major events and conferences. Internet security solutions of Antivirus, Antispyware and AntiSpam are implemented both at the gateway and clients.

Microsoft Desktop campus of legal Operating System and Office is implemented across the campus for better security available only to legal authenticated MS softwares.

Voice Network

A state-of-the-art Avaya S8730 server with G650 gateways located in NDVN, Administrative Building and Political Science Dept. along with G450 located in the School of Technology and Guest House provides TDM backbone and IP enable switch architecture for voice/telephony. All these port networks are connected to the server over IP and registered to the Server-over-IP-Back-Bone. Internet dial-up access to residential quarters is being continued. Direct Inward Dialing (DID), which enable callers from outside to reach the destination without going through the operator, is operational across the campus.

NEHU GUEST HOUSE

The University has Guest Houses at Shillong, Guwahati Airport and Tura Campus. The Management of NEHU Guest House at Shillong is monitored by a duly constituted Guest House Management Committee. With the addition of a new Guest House with 52 Guest Rooms as well as attachment of 10 RUAB Quarters and the International Students Apartments under the aegis of the Old Guest House, today the University is capable of accommodating more than 200 guest at a time. These include AC Suits VIP Rooms, as well furnished Guest rooms with intercom facility, television, etc. Besides, the old Guest House has also Wi-Fi facility. The University proudly notes that the Association of Indian Universities' Vice-Chancellors Conference was hosted by the University during 16th- 19th November 2008 and almost all the Vice-Chancellors were provided accommodation in the Guest House. The University has also been the venue for the 96th Indian Science Congress held between 3rd – 7th January, 2009,. The Council members and delegates were accommodated in the Guest House.

Apart from these two mega events, many other big events of National and International Seminars, Workshop, etc, were also organized by various departments of the University. NEHU Guest House at Shillong had been the venue for most of these seminars in view of its multiple advantages, such as accommodation, catering, the convenience of having a Mini conference Room and an Auditorium with a sitting capacity of 40 and 130 delegates, respectively and Internet facility.

The Guest House at Shillong had been able to make it self sustaining and

Students' Services and Amenities

bring in more improvements in the infrastructure from its own resources for providing better facilities and comfort to the guest of the University.

The Guest House at Guwahati Airport was made functional by the University in February, 2006 with 6 rooms. Now, there are 9 AC rooms, 2 non AC rooms and a mini AC Conference Room for 18 delegates. The Guest House is self –sustained. Primarily, the Guest House caters to the need of NEHU officials who pass through Guwahati, being the corridor between other parts of the country. The Guest House also caters to the need and extends common conferencing facilities not only to all other Central Universities of Northeast, but also to the Govt. Of Meghalaya, Nagaland and Arunachal Pradesh besides RIIMS, AMC, DRL. During the period under report, a number of foreign guests were also provided accommodation the Guest House.

The Guest House at Tura Campus functions from a hired building and it is capable of accommodation 12 guests at a time. It has 3 AC rooms, 1 room with Cooler and 1 non AC rooms. As the University is having an MBA programme in the Campus, the Guest Faculties are provided accommodation in the Guest House.

UNIVERSITY TRANSPORT

The University has 17 buses, a water tanker and a mini truck. The University bus is one of the essential service for the functioning of the University. The buses plying between the Shillong town and the University campus cater to the needs of the post graduate students, Kendriya Vidyalaya students, staff and their dependents. Commuters are charged a very nominal amount for their to and fro journey.

With the increase in the numbers of Departments, the numbers of students and staff available buses do not appear to be enough compared to requirement. To ease the transport problems faced by the students the University has requested the state Government, the Managing Director Transport Corporation of Meghalaya to provide buses to NEHU campus and to set up a bus terminal in the campus.

The University has also a water tanker and a mini truck to carry out the essential services. These facilities are also made available to the staff on payment basis. Besides the facility of heavy vehicles, light vehicles are allotted to the University officers/ Academic Departments/ Centres as and when required.

COUNSELING AND PLACEMENT CELL

Coordinator : Professor. R.N. Sharan
Telephone : 2722121 (O), 2722122 (O)
E-mail : Placement@nehu.ac.in

The Counseling and Placement Cell (CPC) was established on 01 April 2008 with appointment of its Coordinator. Currently, the CPC has one secretarial staff to assist the coordinator and is temporarily functioning from the Department of Biochemistry.

The CPC endeavors to provide with the very best opportunities to NEHU graduates in terms of counseling & guidance, campus placements, etc. it envisions attracting national, international and multinational corporate/firms/ companies to the campus with bags of opportunities for our graduates of different disciplines. To facilitate the objectives, an 'on-line registration portal' has been created on NEHU web site (<http://www.nehu.ac.in>) wherein students can register themselves and upload a brief career profile for use by the CPC. Since its inception, several campus placement and four counseling sessions have been organized in Shillong campus of NEHU. Seven of our graduates were selected by three different Corporate as their respective 'Trainee executive 'with handsome compensation' of their training period of 6-12 months, they will all start their career as 'Executives'. In future, besides regular activities mega events like 'Job Mela' etc. are planned to be held.

Highlights of some of the activities carried out by the CPC during the period under report:

- (i) IDBI bank sponsored counseling session titled 'Banking Sector Career Options' was organized for all the students of NEHU on 16th April 2008 in the Science Auditorium, NEHU. The AGM, IDBI Bank conducted the session. A total of 40 students participated.
- (ii) Campus selection and recruitment drive 1- Chembiotech, Kolkata on 25th April 2008. A total of 41 students took the written test out of which 8 were found suitable for next stage of selection. After an interview at Calcutta, 2 of NEHU students were offered lucrative jobs by the firm.
- (iii) Campus selection and recruitment drive 2- Reliance Retail Ltd., Mumbai on 25th April 2008. A total of 38 students took the written and aptitude tests. A total of 4 students were offered jobs at lucrative terms and conditions by the firm.

Students' Services and Amenities

- (iv) M/S. HughesNet, a subsidiary of Hugues Company India Ltd., held a counseling and interaction with the B.Tech Students of NEHU exposing them to possible career/ job opportunities in the future on 13 August 2008. A total of 13 thirteen) students attended the interactive counseling session.
- (v) The Art of Living Foundation and World Alliance for Youth Empowerment conducted an interactive counseling session cum discussion/ seminar for students of NEHU to expose them to issues related to career developments, coping with anxiety for the future, etc. on 13th August 2008. A total of 54 students from departments of Chemistry/ECE/IT/Botany/Statistics/ Biochemistry attended the session.
- (vi) Campus selection and recruitment drive 30- Wipro BPO (2 day activity) starting 29th September 2008 for all students of NEHU. A total of 61 students from Department of Biochemistry/Economics/Mathematics/Law/Zoology/ Sociology/ Linguistics/Geography/Anthropology/ English turned up to attended the selection test/interview. Some unemployed past pupils of NEHU also appeared for the test/interview. Out of these, 27 students were selected by Wipro BPO and offers of job were given to them.

XV

APPENDICES

MEMBERS OF THE COURT

<p>Chancellor, Ex-Officio Prof. M.G.K. Menon C-178, Sarvodaya Enclave New Delhi - 110 017 Ph, No. 01126966096 (O) 01126511454 (R)</p>	<p>Proctor, Ex-Officio Dr. H. Kayang NEHU, Shillong.</p>
<p>Vice-Chancellor, Ex-Officio Professor Pramod Tandon, NEHU, Shillong.</p>	<p>Finance Officer, Ex-Officio Shri. P. C. Majhi NEHU, Shillong</p>
<p>Pro-Vice-Chancellor, Ex-Officio Professor R. Lalthantluanga NEHU, Shillong</p> <p>Professor S.S. Khare, NEHU, Tura Campus, Tura</p>	<p>Deans of Schools, Ex-Officio</p> <ol style="list-style-type: none">1. Dean, School of Humanities and Education2. Dean, School of Life Sciences3. Dean, School of Physical Sciences4. Dean, School of Social Sciences5. Dean, School of Economics, Management and Information Sciences6. Dean, School of Human and Environmental Sciences7. Dean, School of Information Technology
<p>Dean, Students' Welfare, Ex-Officio Professor R. N. Sharan NEHU, Shillong</p>	<p>All Professors, Ex-Officio</p>
<p>Registrar, Ex-Officio Registrar, NEHU, Shillong</p>	<p>Department of Anthropology</p> <ol style="list-style-type: none">1. Prof. T.B. Subba2. Prof. Henry Lamin3. Prof. R. Khongsdier (Head)
<p>Librarian, Ex-Officio Mrs. I. Majaw NEHU, Shillong</p>	<p>Department of Biochemistry</p> <ol style="list-style-type: none">1. Prof. Ramesh Sharma2. Prof. R. N. Sharan3. Prof. R. Lalthantluanga4. Prof. Anis Alam (Head)

Appendices

Department of Bio-Technology and Bio-Informatics

1. Prof. A. Chatterjee
2. Prof. S. R. Rao (Head)

Department of Botany

1. Prof. A. K. Misra
2. Prof. N. K. Chrungoo
3. Prof. R. C. Laloo
4. Prof. (Ms) M. S. Dkhar
5. Prof. N. Venugopal
6. Prof. S. K. Barik

Department of Business Management, Tura

1. Gandu Singaih (Head)

Department of Chemistry

1. Prof. K. Ismail (Dean)
2. Prof. R. K. Poddar
3. Prof. R. H. D. Lyngdoh
4. Prof. B. Myrboh (Head)
5. Prof. R. A. Lal

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2. Prof. Eugene D. Thomas
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4. Prof. P. Nayak
5. Prof. B. Mishra

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3. Prof. R. S. Wangu (Head)
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Department of English

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Department of Garo, NEHU, Tura Campus, Tura

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Department of Geography

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Department of Khasi

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2. Prof. M. B. Jyrwa
3. Prof. S. Dkhar

Department of Linguistics

1. Prof. (Miss) J. War
2. Prof. S. Kr. Singh (Head)

Department of Mathematics

1. Prof. S. S. Khare
2. Prof. M.B. Rege
3. Prof. H. K. Mukherjee (Head)

Department of Philosophy

1. Prof. C.R. Agera
2. Prof. J. Pal
3. Prof. B.K. Agarwala (Head)
4. Prof. Vanlalnghak

<p>Department of Political Science</p> <ol style="list-style-type: none"> 1. Prof. A. K. Baruah 2. Prof. (Mrs) Rupa Borgohain 3. Prof. L.S. Gassah 4. Prof. B.J. Deb <p>Department of Physics</p> <ol style="list-style-type: none"> 1. Prof. P. Shukla 2. Prof. P. N. Pandita (Head) 3. Prof. Y. S. Jain 4. Prof. B. M. Jyrwa 5. Prof. Satish Kumar 6. Prof. P. Nongkynrih <p>Department of Rural Development & Agricultural Production, Tura</p> <ol style="list-style-type: none"> 1. Prof. S. C. Srivastava (Head) 2. Prof. R. Mohan <p>Department of Sociology</p> <ol style="list-style-type: none"> 1. Prof. N. Kumar 2. Prof. C. L. Imchen <p>Department of Statistics</p> <ol style="list-style-type: none"> 1. Prof. G. Das <p>Department of Zoology</p> <ol style="list-style-type: none"> 1. Prof. (Mrs) V. Tandon (Dean) 2. Prof. B. K. Sharma (Dean) 3. Prof. B. B. P. Gupta 4. Prof. S. B. Prasad 5. Prof. N. Saha 6. Prof. B. Kharbuli 7. Prof. (Mrs) R. N. K. Hooroo <p>Centre for Environmental Studies</p> <ol style="list-style-type: none"> 1. Prof. B. K. Tiwari 2. Prof. L. K. Jha <p>Centre for Science Education</p> <ol style="list-style-type: none"> 1. Prof. M. M. Singh 2. Prof. D. Bhattacharjee 3. Prof. M. S. Bisht 	<p>Department of BSSS</p> <ol style="list-style-type: none"> 1. Prof. (Mrs) P. V. Koparkar <p>Department of Sophisticated Analytical Instrumentation Facility</p> <ol style="list-style-type: none"> 1. Prof. R. P. Bajpai <p>Professor other than the Heads of Departments and Centres, (Ex-Officio)</p> <p>Heads of Department who are not Professors (Ex-Officio)</p> <ol style="list-style-type: none"> 1. Head, Department of Commerce, NEHU, Shillong. 2. Head, Department of English, NEHU, Tura. 3. Head, Department of Statistics, NEHU, Shillong. 4. Head, Department of Law, NEHU, Shillong. 5. Head, Department of Education, NEHU, Tura. 6. Head, Department of Hindi, NEHU, Shillong. 7. Head, Department of Electronics and Communication Engineering, NEHU, Shillong. 8. Head, Department Information Technology, NEHU, Shillong. 9. Head, Department Library and Information Sciences, NEHU, Shillong. 10. Head, Department of Garo, NEHU, Tura 11. Head, Department of Basic Science & Social Science. 12. Head, Department of English, NEHU, Shillong. <p>Two Readers who are not Heads of Department and two Lecturers to be appointed by rotation in the manner prescribed by Ordinances</p> <p>Readers:</p> <ol style="list-style-type: none"> 1. Dr. M. K. Das, Department of Statistics, NEHU, Shillong. 2. Dr. Mustaqueen Ansari, Department of Mathematics, NEHU, Shillong.
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Appendices

Lecturers:

1. Shri J. P. Jaiswal, Lecturer, Department of Rural Development & Agricultural Production, NEHU, Tura
2. Dr. S.N. Sharma, Centre for Distance Education.

Seven Principals of Colleges in the State of Meghalaya

1. Principal, Bormanik College, Shillong
2. Principal, St. Domanic College, Shillong
3. Principal, Shillong Engineering & Management Cell, Shillong
4. Principal, Williamnagar College, Williamnagar
5. Principal, Christian Academy College, Shillong
6. Principal, Mawlai Presbyterian College, Shillong.
7. Principal, K. L. Bajoria College, Shillong.

Four teachers from affiliated colleges of the State of Meghalaya

1. Ms. Devaleena Bhattacharjee, Sr. Grade Lecturer, Lady Keane College, Shillong.
2. Smti. R. Merika Nongtdu, Head, History Department, Jaintia Eastern College, Jaintia.
3. Dr. (Ms) Jaya G. Choudhury, Lecturer, St. Mary's College, Shillong.
4. Shri Omprakash Sharma, Lecturer, Tura Law College, Tura.

Four Lok Sabha members to be nominated by the Speaker and two Rajya Sabha to be nominated by the Chairman of Rajya Sabha

Lok Sabha

Vacant

Rajya Sabha

1. Shri Rishang Keishing, Mantri Pukhri, Imphal, Manipur
&
12, Talkatora Road, New Delhi-110001.

2. Shri Matilal Sarkar, Village Milan Sangha
P.O. A.D. Nagar, Agartala, Tripura
&
Flat No. 107 & 504, V.P. Hosue, Rafi Marg, New Delhi-110001.

Two persons nominated by the Chancellor

1. Prof. Tamo Mibang, Pro-Vice-Chancellor, Rajiv Gandhi University, Rano Hills, Hanagar-791112. Arunachal Pradesh.
2. Prof. Prasanta Roy, Professor Emeritus of Sociology & Political Science, Presidency College, BK. 365, Salt Lake, Sector-II, Kolkata - 7900091.

Not more than two persons to be nominated by the Chief Rector

1. Shri I.K. Sang, Retd.
Secretary of MBOSE,
Meghalaya, C/o Tetengol, Tura
2. Smti M. Marwein, Retd. Joint Director, HTE Meghalaya,
C/o Jaiaw Langsning
Shillong-793002

Two members of Non-Teaching Staff nominated by the Vice-Chancellor

1. President, Non-Teaching Staff Association, NEHU, Shillong.
2. General Secretary, Non-Teaching Staff Association, NEHU, Shillong.

Two representatives from the State of Meghalaya nominated by State Govt.

1. Shri W. Synrem, IES, Director Higher & Technical Education, Department of Education, Meghalaya, Shillong.
2. Smt. J. D. Sangma, Director Elementary & Mass Education, Department of Education, Govt. of Meghalaya, Shillong.

<p>Members of the Executive Council who are otherwise Members of the Court</p> <ol style="list-style-type: none">1. Director of Higher & Technical Education, Govt. of Meghalaya, Shillong.2. Principal, Seng Khasi College, Shillong3. Principal, Mendipathar College, Mendipathar.4. Prof. Gautam Barua, Director, Indian Institute of Technology, Amingaon, Guwahati-781039	<ol style="list-style-type: none">5. Prof. A.K. Sharma, B-948, Ansal's Palam Vihar, Gurgaon – 122017 (Haryana).6. Professor S. F. Patil, Vice-Chancellor, Bharati Vidhya- peeth, Lal Bahadur Shastri Marg, Pune-411030 (Maharashtra).7. Prof. Bikash Sinha, Director, Saha Institute of Nuclear Physics, Sector-I, Block-AF, Bidhannagar, Kolkata- 700064
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Appendices

MEMBERS OF THE EXECUTIVE COUNCIL

<p>Professor Pramod Tandor (Chairman) Vice-Chancellor, NEHU, Shillong.</p>	<p>Director, Higher & Technical Education, Govt. of Meghalaya Shillong.</p>
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<p>Prof. K. Ismail Dean, School of Physical Science NEHU, Shillong.</p>	<p>Dr. Abad Ahmad 20, Cavalry Lane, Delhi University, Delhi-110 007.</p>
<p>Prof. (Mrs) R. Borgohain Dean, School of Social Sciences, NEHU, Shillong.</p>	<p>Prof. Gautam Barua Director, Indian Institute of Technology, Amingaon, Guwahati-781039.</p>
<p>Prof. (Mrs) T. Ao Dean, School of Humanities and Education, NEHU, Shillong.</p>	<p>Prof. A.K. Sharma B-948, Ansal's Palam Vihar Gurgaon-122017 (Haryana)</p>
<p>Prof. B.K. Sharma Dean, School of Life Sciences NEHU, Shillong.</p>	<p>Prof. S.F. Patil, Vice-Chancellor Bharati Vidhyapeeth, Lal Bahadur Shastri Marg, Pune-411030.</p>
<p>Prof. R.P. Bajpai Department of SAIF, NEHU, Shillong</p>	<p>Prof. Bikash Sinha, Director Saha Institute of Nuclear Physics Sector-I, Block-AF, Bidhannagar Kolkata-700 064.</p>
<p>Dr. Mustaqueen Ansari Department of Mathematics, NEHU, Shillong.</p>	<p>Shri P.C. Majhi, Finance Officer NEHU, Shillong. (Permanent Invitee)</p>
<p>Principal Seng Khasi College, Shillong.</p>	<p>Prof. D.T. Khathing Registrar (Non-Member-Secretary) NEHU, Shillong.</p>
<p>Principal Mendipathar College, Mendipathar</p>	

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<p>Pro-Vice-Chancellor (Ex-Officio) Professor R. Lalthantluanga Shillong Campus, Shillong</p>	<ol style="list-style-type: none"> 1. Professor P.K. Gupta 2. Professor (Ms) A. Henia 3. Professor R.S. Wangu (Head) 4. Professor (Mrs) S.M. Sungoh
<p>Professor S.S. Khare (P.V.C) Tura Campus, Tura.</p>	<p>Department of Education (Tura)</p> <ol style="list-style-type: none"> 1. Dr. B.C. Das (Head)
<p>NAME OF THE SCHOOLS/DEPARTMENTS/ CENTRES.</p>	<p>Department of English (Shillong)</p> <ol style="list-style-type: none"> 1. Professor (Mrs) T. Ao (Dean) 2. Professor (Mrs) E. Syiem 3. Dr. M. M. Mazumdar (Head)
<p>SCHOOL OF ECONOMICS, MANAGEMENT AND INFORMATION SCIENCES.</p>	<p>Department of English (Tura)</p> <ol style="list-style-type: none"> 1. Dr. J. Pradhan (Head) 2. Professor Sujata Gurudev
<p>1. Professor P. K. Nayak (Dean)</p>	<p>Department of Hindi</p> <ol style="list-style-type: none"> 1. Dr. S. K. Sharma (Head)
<p>Department of Commerce</p> <ol style="list-style-type: none"> 1. Dr. V.K. Shrotryia (Head) 2. Prof. N.M. Panda 	<p>Department of Khasi</p> <ol style="list-style-type: none"> 1. Professor M.B. Jyrwa 2. Professor B. War 3. Professor S. Dkhar (Head) 4. Professor A. Kharmalki
<p>Department of Economics</p> <ol style="list-style-type: none"> 1. Professor S.K. Mishra 2. Professor N. Srivastav 3. Professor E.D. Thomas 4. Professor P. Nayak (Dean) 5. Professor B. Mishra (Head) 	<p>Department of Garo (Tura)</p> <ol style="list-style-type: none"> 1. Prof. J.R. Marak (Head)
<p>Department of Library & Information Sciences</p> <ol style="list-style-type: none"> 1. Dr. Moses M. Naga (Head) 	<p>Department of Philosophy</p> <ol style="list-style-type: none"> 1. Professor C.R. Agera 2. Professor Jagat Pal 3. Professor K. Agarwala (Head) 4. Professor Vanlalnghak
<p>Department of Business Management</p> <ol style="list-style-type: none"> 1. Professor Gandu Singaiah (Head) 	
<p>SCHOOL OF HUMANITIES & EDUCATION</p>	
<p>1. Professor (Mrs) T. Ao (Dean)</p>	

Appendices

<p>Department of Linguistics</p> <ol style="list-style-type: none">1. Professor J. War2. Professor S. Kr. Singh (Head) <p>Centre for Adult and Continuing Education</p> <ol style="list-style-type: none">1. Dr. B. P. Sahu (Head)2. Professor E. Jyrwa <p>Centre for Distance Education</p> <ol style="list-style-type: none">1. Dr. R. N. Rai (Head) <p>SCHOOL OF HUMAN & ENVIRONMENTAL SCIENCES.</p> <ol style="list-style-type: none">1. Professor B.S. Mipun (Dean) <p>Department of Anthropology</p> <ol style="list-style-type: none">1. Professor H. Lamin2. Professor T.B. Subba3. Professor R. Khongsdier (Head) <p>Department of Geography</p> <ol style="list-style-type: none">1. Professor A.C. Mohapatra2. Professor S. Singh3. Professor D.K. Nayak (Head)4. Professor B.S. Mipun5. Professor Z. H. Qureshi <p>Department of Rural Development & Agricultural Production (Tura)</p> <ol style="list-style-type: none">1. Professor S.C. Srivastava (Head)2. Professor Rakesh Mohan <p>Centre for Environmental Studies</p> <ol style="list-style-type: none">1. Dr. O.P. Singh (Head)2. Professor B.K. Tiwari3. Professor L.K. Jha <p>SCHOOL OF LIFE SCIENCES</p> <ol style="list-style-type: none">1. Professor B. K. Sharma (Dean)	<p>Department of Bio-Chemistry</p> <ol style="list-style-type: none">1. Professor R. Lalthantluanga (Head)2. Professor R. Sharma3. Professor R.N. Sharan4. Professor Anis Alam <p>Department of Botany</p> <ol style="list-style-type: none">1. Professor A.K. Mishra2. Professor N.K. Chrungoo3. Professor R.C. Laloo4. Professor M.S. Dkhar (Head)5. Professor N. Venugopal6. Professor S.K. Barik7. Professor Uma Shankar <p>Department of Zoology</p> <ol style="list-style-type: none">1. Professor V. Tandon2. Professor B.B.P. Gupta3. Professor S.B. Prasad4. Professor R.N.K. Hooroo (Head)5. Professor N. Saha6. Professor B. Kharbuli7. Professor B.K. Sharma (Dean)8. Professor S. N. Ramanujan <p>Department of Biotechnology and Bioinformatics</p> <ol style="list-style-type: none">1. Professor Anupam Chatterjee2. Professor S.R. Rao (Head) <p>SCHOOL OF PHYSICAL SCIENCES</p> <ol style="list-style-type: none">1. Professor K. Ismail (Dean) <p>Department of Chemistry</p> <ol style="list-style-type: none">1. Professor K. Ismail (Dean)2. Professor R.K. Poddar3. Professor B. Myrboh4. Professor R.A. Lal5. Professor R.H.D. Lyngdoh (Head)6. Professor K.M. Rao
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<p>Department of Statistics</p> <ol style="list-style-type: none"> 1. Professor G. Das 2. Dr. T. K. Chakrabarty (Head) 3. Professor S.M. Bendre <p>Department of Mathematics</p> <ol style="list-style-type: none"> 1. Professor M.B. Rege 2. Professor H.K. Mukherjee <p>Department of Physics</p> <ol style="list-style-type: none"> 1. Professor P. Shukla 2. Professor Y.S. Jain 3. Professor P.N. Pandita (Head) 4. Professor B.M. Jyruwa 5. Professor P. Nongkynrih 6. Professor Satish Kumar <p>Centre for Science Education</p> <ol style="list-style-type: none"> 1. Professor M.M. Singh (Head) 2. Professor M. S. Bisht 3. Professor. D. Bhattacharjee <p>SCHOOL OF SOCIAL SCIENCES</p> <ol style="list-style-type: none"> 1. Prof. R. Borgohain (Dean) <p>Department of History</p> <ol style="list-style-type: none"> 1. Professor D.R. Syiemlieh 2. Professor M. Momin (Head) 3. Professor M. Sharma 4. Professor F.A. Qadri <p>Department of Political Science</p> <ol style="list-style-type: none"> 1. Professor B.J. Deb (Head) 2. Professor A.K. Baruah 3. Professor L.S. Gassah 4. Professor R. Borgohain <p>Department of Sociology</p> <ol style="list-style-type: none"> 1. Professor Nikhlesh Kumar 2. Professor C.L. Imchen (Head) <p>Department of Law</p> <ol style="list-style-type: none"> 1. Dr. Chintamani Rout (Head) 	<p>Centre for Cultural and Creative Studies</p> <ol style="list-style-type: none"> 1. Dr. P. Jhingan (Head) <p>SCHOOL OF TECHNOLOGY</p> <ol style="list-style-type: none"> 1. Professor K. Ismail (Dean) <p>Department of Electronic Communication & Engineering</p> <ol style="list-style-type: none"> 1. Dr. L.J. Singh (Head) <p>Department of Information and Technology</p> <ol style="list-style-type: none"> 1. Dr. Md. Iftikhar Hussain (Head) <p>R.S.I.C.</p> <ol style="list-style-type: none"> 1. Professor R.P. Bajpai <p>Department of Basic Science and Social Science</p> <ol style="list-style-type: none"> 1. Professor (Mrs) P.V. Koparkar 2. Dr. A. K. Das (Head) <p>Dean Student Welfare</p> <ol style="list-style-type: none"> 1. Professor R. N. Sharan <p>Librarian</p> <ol style="list-style-type: none"> 1. Mrs I. Majaw <p>SIX PRINCIPALS OF COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY</p> <ol style="list-style-type: none"> 1. Principal, Jaintia Eastern College, P.O. Khliehriat - 793200, Jaintia Hills. 2. Principal, Nongtalang College, P.O. Nongtalang, Jaintia Hills. 3. Principal, Bor Manik College, 3rd Mile Upper Shillong, Shillong-793 002. 4. Principal, B.B.S. College, Upper Mawprem, Shillong-793 002. 5. Principal, Morning Star College, Nongthymmai, Shillong - 793 014 6. Principal, Bissau College, Laitumkhras, Shillong.
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Appendices

FIVE TEACHERS OF THE UNIVERSITY, BY ROTATION ACCORDING TO SENIORITY OF WHICH TWO SHALL BE READERS AND THREE LECTURERS.

Readers

1. Dr. M. Ansari, Department of Mathematics, NEHU, Shillong.
2. Dr. M.K. Das, Centre for Applied Statistics, NEHU, Shillong.

Lecturers

1. Dr. S.N. Sharma, Distance Education, NEHU, Shillong.
2. Shri N. Parthasarathy, Department of Philosophy, NEHU, Shillong.
3. Shri A.B. Chettri, Basic Science & Social Science, NEHU, Shillong.

Four persons, not being employees of the University or of a College or Institution by or affiliated (Nominated by the Visitor)

1. Professor. A.K. Bhatnagar, School of Physics, University of Hyderabad-46
2. Dr. Suma Chitnis, C-1, Palasimo, Silver Oak Estate, Bhagla Bhai Desai Road, Mumbai-400 026, Phone No. 044-23517246.
3. Dr. Anand Swaroop Arya, Professor Emeritus Indian, Institute of Technology, Roorkee-247667, Fax No. 01332-285815/273560
4. Professor M. P. Lama, V.C. Sikkim University, Sikkim.

SIX TEACHERS OF THE COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY.

1. Dr. Bipin Kumar Thakur, Mendipathar College, Mendipathar, East Garo Hills.
2. Shri B.D. Majaw, Sankardev College, Shillong.

3. Shri Abhijit Choudhury, St. Edmund's College, Shillong.
4. Shri K.D. Ramsiej, Shillong College, Shillong.
5. Shri Louis Pyngrope, Lady Keane College, Shillong.
6. Shri Herbran Syiem, St. Anthony's College, Shillong.

TWO POST-GRADUATE STUDENTS OF THE UNIVERSITY, ONE FROM SCIENCES AND ONE FROM HUMANITIES AND ONE RESEARCH SCHOLAR TO BE ELECTED ON ACADEMIC MERIT IN THE MANNER PRESCRIBED BY AN ORDINANCE.

POST-GRADUATE STUDENTS

1. Mr. Rabi N. Behera, Department of Geography, NEHU, Shillong.
2. Ms. T. Imlienla, Department of Philosophy, NEHU, Shillong.

RESEARCH SCHOLAR

1. Mr. Carlos Kynta, Department of Linguistics, NEHU, Shillong.

PERMANENT INVITEE (S)

1. Director, College Development Council, NEHU, Shillong.
2. Controller of Examinations, NEHU, Shillong.

SECRETARY (EX-OFFICIO)

Registrar, NEHU, Shillong.

OFFICERS OF THE UNIVERSITY

(According to NEHU Act, 1973 Section 10)

Visitor	The President of India
Chancellor	Professor André Béteille (upto 12.10.2008) Professor M. G. K. Menon (w.e.f. 13.10.2008)
Chief Rector	The Governor of Meghalaya
Vice-Chancellor	Professor Pramod Tandon
Pro-Vice-Chancellor Tura Campus, Tura	Professor S. S. Khare
Pro-Vice-Chancellor Shillong	Professor R. Lalthantluanga (w.e.f. 25.3.2009)
Registrar	Professor D. T. Khathing (upto 28.2.2009) Shri. P. C. Majhi (w.e.f. 1.3.2009)
Finance Officer	Shri P. C. Majhi
Controller of Examinations	Professor D. R. Syiemlieh
Librarian	Dr. I. Majaw
Deans of Schools:	
<i>School of Humanities and Education</i>	Professor T. Ao
<i>School of Life Sciences</i>	Professor Veena Tandon (upto 15.1.2009) Professor B. K. Sharma (w.e.f. 16.1.2009)
<i>School of Physical Sciences</i>	Professor K. Ismail
<i>School of Social Sciences</i>	Professor R. Borgohain
<i>School of Economics, Management and Information Sciences</i>	Professor N. Srivastav (upto 3.3. 2009) Professor P. Nayak (w.e.f. 4.3.2009)
<i>School of Human and Environmental Sciences</i>	Professor B. K. Tiwari (upto 15.1.2009) Professor B. S. Mipun (w.e.f. 16.1.2009)
<i>School of Technology</i>	Professor K. Ismail

ANNUAL MEETING OF
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17 - 19 NOVEMBER 2008
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