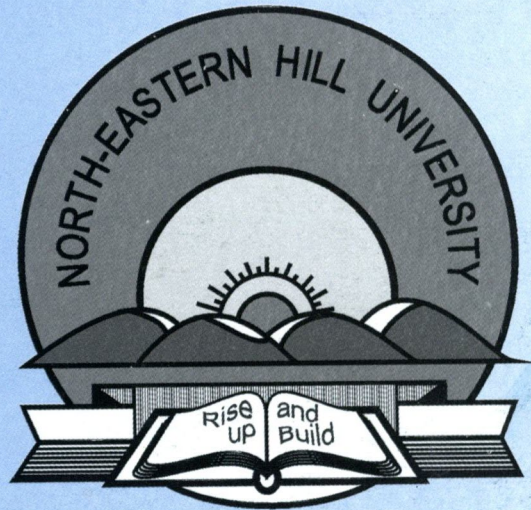


North-Eastern Hill University



Thirty-seventh
**Annual
Report**

2010-2011



North-Eastern Hill University

Shillong

Thirty-Seventh Annual Report



2010 – 2011

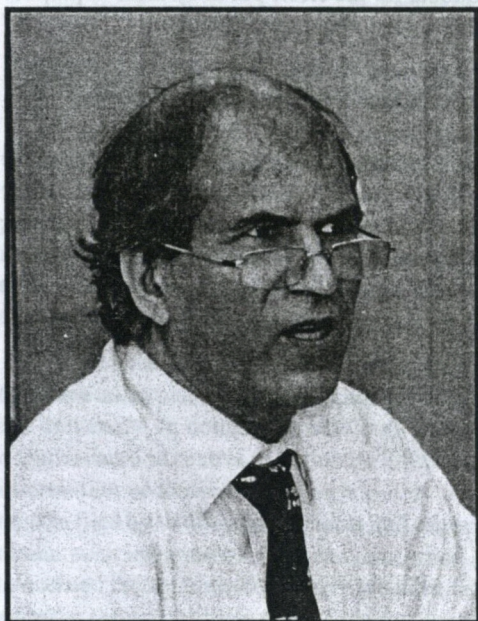
North-Eastern Hill University
Shillong

Thirty-Seventh
Annual Report



2010 - 2011

From the Vice-Chancellor's Desk



Greetings from North-Eastern Hill University, Shillong!

I am happy to place before you the Annual Report for 2010-11 containing details of the University and its academic activities during the year. The report also contains details of activities of various service departments/centres of the University. During this year, Prof. P. Tandon completed his tenure as Vice-Chancellor and I took over in the month of October 2010. I take this opportunity to thank Prof. Tandon for steering the University through his tenure.

North-Eastern Hill University is comparatively a new university that continues to grow and improve its performance year after year. Today we are 22nd in all India ranking and recognized for our teaching and research as

evident from the fact that NEHU is a University with Potential for Excellence, several of its academic departments are covered under SAP and Advanced Centre Schemes of the UGC, and it recently qualified under PURSE programme of the DST. Process is on for setting up of a Centre of Advanced Study in Sciences, Social Sciences and Humanities.

Presently we have 317 teachers, nearly 800 research scholars spread across 34 departments and 2 centres of studies in two campuses – one at Shillong and another at Tura. The total strength of the students is 4072 [excluding students in 66 affiliated colleges]. The students' population represent a good gender equality with male and female ratio of 1.2:1.

During the year under review, there were 403 articles and 27 books published, 76 seminars and workshops organized, 105 research projects undertaken and 62 Ph.D. and 19 M.Phil. produced. More than one-third of the academic departments have collaborative programmes with other institutions and the university student population is growing by an average of 12 – 13 per cent per year.

During the 11th Plan, 6 new departments at Shillong Campus and 3 at Tura Campus were sanctioned. These are in the process of being set-up. The University has adopted the UGC Regulations 2010 and necessary reforms in administration, examinations, academics and finances are being undertaken. The University has a high speed Data Voice Network linked to NKN with 1 GBPS speed through which we have access to electronic journals and various digital repositories.

I should, however, point out the financial constraints that are being faced by

the University. While development grant has been good, maintenance grants, particularly the non-salary component, is highly inadequate. This is because of the cut imposed by the UGC two years ago, which continues till now. We have made all attempts to cut the expenditure and raise internal revenue but these are insufficient. We have, therefore, represented to the UGC and the MHRD for a review of our finances favourably.

Lastly, let me thank the university

community for their hard work and devotion to duty in making NEHU an institution worthy of its name in the field of higher education. I also thank the Editorial Team, led by Prof. T.B. Subba, for the effort put in by them to prepare this Annual Report well in time.

A handwritten signature in black ink, consisting of a large, stylized 'A' followed by a long, sweeping horizontal line that ends in a small hook.

A.N. Rai

Executive Summary

The members of the Editorial Board for the Annual Report 2010-11 have great pleasure presenting this report to the Executive Council, the Court and to the Parliament for the necessary perusal and comments, if any, of the members of these authorities. Presenting the report in a structured format has its limitations even though the format has evolved over decades. Although the format we follow in preparing this report takes care of almost all that we would like the report to include it perhaps leaves certain achievements of our faculty members, PhD students and even postgraduate and undergraduate students. It also perhaps fails to include the achievements of our officers and staff. But if we are to include all that the size of the report will be well beyond our control and we will not be able to get the report ready for the various authorities within the limited time available to us.

We have no hesitation in admitting that we have tried to project only the positive developments that have taken place in various academic and administrative departments, centres, cells, units, etc. of our university. In doing so, it was both necessary and desirable to editorialize the reports of some departments and centres, without the Editorial Board acting as the censor body. Where the necessary information according to the format duly approved by the Executive Council was missing in the reports filed by various departments and centres the members of the Editorial Board tried their best to obtain such information from the concerned departments and centres, and at times even from the concerned faculty member. Where we have failed to obtain such information we have exercised our editorial responsibility to delete incomplete information, which we deeply regret.

In this report we present to you the reports on 29 departments and 2 centres located in the Shillong campus and 5 departments located in the Tura campus of our university. The total number of students admitted was 4072, out of which 55 percent were females and 73 percent were STs. There were as many as 769 PhD students and 317 faculty members most of who have been very productive during the year. They produced as many as 19 MPhils and 62 PhDs, organized as many as 76 seminars/workshops/refresher courses, etc. They published as many as 403 articles out of which 157, i.e., 39 percent were published abroad and 246, i.e., 61 percent were published in India. They also published 27 books some of which were published from abroad. The faculty members must also be credited for bringing a huge amount of funding through 105 projects that were either completed, ongoing or newly commissioned by various funding agencies like DBT, DAE, UGC, DST, CSIR, DRDO, ICSSR, NBHM, BARC, NEC and so on. Some of the projects were funded even by international agencies.

The university also has 66 affiliated colleges admitting 38,400 students. The affiliated colleges include minority institutions from many states of India.

A number of new courses were launched during the year under report such as MSc in Microbiology by Botany Department, PG Diploma Course in Geoinformatics by Geography Department, PG Diploma Course in Special Education by the Centre for Distance Education, PG Diploma Course in

Statistics by Statistics Department, and PG Diploma Courses in Music and Painting by the Department of Cultural and Creative Studies. The university was selected for funding under DST-PURSE programme based on Scopus rating of its publications and considered for a Centre for Advance Study in Sciences, Humanities and Social Sciences by the Group of Ministers through the North Eastern Council, Shillong.

It may be further pointed out that almost one third of the departments had local, regional, national or international collaborations with reputed scientists, scholars or institutions. At least one faculty member of 16 departments was awarded or recognized nationally and at least 8 departments had several faculty members who were so awarded for their contribution to specific fields of their specialization.

Officers of North-Eastern Hill University

| | |
|-------------------------------------------------------------------------|------------------------------------------------------------------------|
| Visitor | HE Pratibha Devi Singh Patil |
| Chancellor | Prof. M.G.K. Menon |
| Chief Rector | HE Ranjit Shekhar Mooshahary |
| Vice-Chancellor | Prof. Pramod Tandon Prof. A. N. Rai (w.e.f. FN 11.10.2010) |
| Pro-Vice-Chancellor (Shillong) | Prof. R. Lalthantluanga Prof. D.R. Syiemlieh (w.e.f. AN 19.11.2010) |
| Pro-Vice-Chancellor (Tura) | Prof. S.S. Khare Prof. E. D. Thomas (w.e.f. AN 02.12.2010) |
| Registrar | Mr. Lambha Roy |
| Finance Officer | Mr. Taliremba |
| Controller of Examinations | Prof. K. Ismail |
| Librarian | Mrs. I. Majaw |
| Dean, School of Economics, Management & Information Sciences | Prof. P. K. Nayak |
| Dean, School of Education | Prof. P. K. Gupta |
| Dean, School of Human and Environmental Sciences | Prof. B. S. Mipun |
| Dean, School of Humanities | Prof. J. War |
| Dean, School of Life Sciences | Prof. B. K. Sharma |
| Dean, School of Physical Sciences | Prof. H. K. Mukerjee |
| Dean, School of Social Sciences | Prof. L. S. Gassah |
| Dean, School of Technology | Prof. S. Choudhury |

Members of the Editorial Board

T. B. Subba, Chairman
Nirankar Srivastav, Member
R. H. Duncan Lyngdoh, Member
F. A. Qadri, Member
A. K. Misra, Member
Utpala G. Sewa, Member
Eva Giri, Member
B. Shylla, Member

CONTENTS

| | |
|----------------------------------------------------------------------|-------------|
| FROM THE VICE-CHANCELLOR'S DESK | iii |
| EXECUTIVE SUMMARY | v |
| Officers of North-Eastern Hill University | vii |
| Members of Editorial Board | viii |
| | |
| I. School of Economics, Management & Information Sciences | 1 |
| Department of Commerce | 1 |
| Department of Economics | 6 |
| Department of Library & Information Science | 13 |
| Department of Management | 16 |
| | |
| II. School of Education | 22 |
| Department of Adult and Continuing Education | 23 |
| Department of Education | 26 |
| Department of Education (Tura) | 32 |
| Centre for Distance Education | 35 |
| Centre for Science Education | 37 |
| | |
| III. School of Human and Environmental Sciences | 39 |
| Department of Anthropology | 39 |
| Department of Environmental Studies | 44 |
| Department of Geography | 51 |
| Department of Rural Development and Agricultural Production | 57 |
| | |
| IV. School of Humanities | 61 |
| Department of English | 61 |
| Department of English (Tura) | 68 |
| Department of Garo (Tura) | 70 |
| Department of Hindi | 72 |
| Department of Khasi | 75 |
| Department of Linguistics | 80 |
| Department of Philosophy | 84 |

| | | |
|--------------|---------------------------------------------------------|------------|
| V. | School of Life Sciences | 89 |
| | Department of Biochemistry | 89 |
| | Department of Biotechnology and Bioinformatics | 96 |
| | Department of Botany | 104 |
| | Department of Zoology | 114 |
| VI. | School of Physical Sciences | 123 |
| | Department of Chemistry | 123 |
| | Department of Mathematics | 130 |
| | Department of Physics | 134 |
| | Department of Statistics | 137 |
| VII. | School of Social Sciences | 140 |
| | Department of Cultural and Creative Studies | 140 |
| | Department of History | 143 |
| | Department of Law | 149 |
| | Department of Political Science | 152 |
| | Department of Sociology | 159 |
| VIII. | School of Technology | 163 |
| | Department of Basic Sciences and Social Sciences | 163 |
| | Department of Electronics and Communication Engineering | 168 |
| | Department of Information Technology | 171 |
| IX. | Administrative Department | 174 |
| | Campus Development Department | 174 |
| | College Development Council | 175 |
| | Examination Department | 176 |
| | Finance Department | 177 |
| | Planning Department | 177 |
| X. | Central Services | 179 |
| | Academic Staff College | 179 |

| | |
|----------------------------------------------|------------|
| Bioinformatics Centre | 181 |
| Central Library | 182 |
| Library (Tura) | 186 |
| Computer Centre | 187 |
| Data and Voice Network | 188 |
| Sophisticated Analytical Instrument Facility | 189 |
| Students' Welfare | 192 |
| University Science Instrumentation Centre | 193 |
| XI. Miscellaneous Cells / Units | 194 |
| Counseling and Placement Cell | 194 |
| Equal Opportunity Cell | 195 |
| Hindi Cell | 195 |
| Internal Quality Assurance Cell | 196 |
| National Service Scheme | 197 |
| Publication Unit | 199 |
| SC/ST Cell | 200 |
| Sports Department | 201 |
| Women's Cell | 201 |
| Members of the University Court | 202 |
| Members of the Executive Council | 208 |
| Members of the Academic Council | 211 |
| Members of the Board of Research Studies | 213 |
| Annexures | 217 |

| | | |
|--------------|---------------------------------------------------------|------------|
| V. | School of Life Sciences | 89 |
| | Department of Biochemistry | 89 |
| | Department of Biotechnology and Bioinformatics | 96 |
| | Department of Botany | 104 |
| | Department of Zoology | 114 |
| VI. | School of Physical Sciences | 123 |
| | Department of Chemistry | 123 |
| | Department of Mathematics | 130 |
| | Department of Physics | 134 |
| | Department of Statistics | 137 |
| VII. | School of Social Sciences | 140 |
| | Department of Cultural and Creative Studies | 140 |
| | Department of History | 143 |
| | Department of Law | 149 |
| | Department of Political Science | 152 |
| | Department of Sociology | 159 |
| VIII. | School of Technology | 163 |
| | Department of Basic Sciences and Social Sciences | 163 |
| | Department of Electronics and Communication Engineering | 168 |
| | Department of Information Technology | 171 |
| IX. | Administrative Department | 174 |
| | Campus Development Department | 174 |
| | College Development Council | 175 |
| | Examination Department | 176 |
| | Finance Department | 177 |
| | Planning Department | 177 |
| X. | Central Services | 179 |
| | Academic Staff College | 179 |

| | |
|----------------------------------------------|------------|
| Bioinformatics Centre | 181 |
| Central Library | 182 |
| Library (Tura) | 186 |
| Computer Centre | 187 |
| Data and Voice Network | 188 |
| Sophisticated Analytical Instrument Facility | 189 |
| Students' Welfare | 192 |
| University Science Instrumentation Centre | 193 |
| XI. Miscellaneous Cells / Units | 194 |
| Counseling and Placement Cell | 194 |
| Equal Opportunity Cell | 195 |
| Hindi Cell | 195 |
| Internal Quality Assurance Cell | 196 |
| National Service Scheme | 197 |
| Publication Unit | 199 |
| SC/ST Cell | 200 |
| Sports Department | 201 |
| Women's Cell | 201 |
| Members of the University Court | 202 |
| Members of the Executive Council | 208 |
| Members of the Academic Council | 211 |
| Members of the Board of Research Studies | 213 |
| Annexures | 217 |

Chapter I

SCHOOL OF ECONOMICS, MANAGEMENT & INFORMATION SCIENCES

Name of the Dean : Professor P. Nayak
Telephone : 2723183 (O), 2726183 (R), 9436111308 (M)
Email : nehu_pnayak@yahoo.co.in

The School of Economics, Management & Information Sciences comprises four academic departments: Commerce, Economics, Library & Information Science and Management. The first three departments are located in Shillong and the last in Tura. There are 33 faculty members under the School. The School admits students to the Masters, M. Phil and PhD programmes.

During the year under report eight scholars were awarded PhD degrees. Students got placements in various schools, colleges, universities, banking institutions and other com-

mercial and government organizations. A number of students qualified UGC-NET. Faculty members of the School were successful in drawing research funding from Government of India and other national and international organizations. They published a number of books and research papers in national and international journals and contributed articles to edited books. They presented research papers in a large number of regional, national and international seminars and conferences and were invited to serve as resource persons in various refresher courses and orientation programmes.

Department of Commerce

Name of the Head : Dr. V. K. Shrotryia
Telephone : 0364-2723161(o)
Email : hodcom@nehu.ac.in; vkshro@gmail.com

Thrust Area

The thrust areas of the department are Accounting & Finance, Entrepreneurship & Small Business, and Organisational Happiness.

Brief Statement of Academic Activities

The department, in addition to the regular teaching, conducted seminars, career counseling and discussions on contemporary topics for the students to enable them enhance their presentation skills and share the outcome of their project/field work.

NEHU Annual Report 2010-2011

Faculty Profile

| | |
|------------------------|------------------------------------------------------------|
| Professor: | |
| N.M. Panda | M.Com, LL.B (Utkal Univ), Ph D (Manipur Univ), FDPM (IIMA) |
| Associate Professors: | |
| A.P. Pati | M Com, M Phil, Ph D, LLB, (Utkal), ACWA(ICWAI), DBF(ICFAI) |
| V.K. Shrotryia | M.Com, LLB, Ph. D (Rohilkhand Univ) |
| K.C. Kabra | M.Com, Ph. D (JR Nagar Raj Vidyapeeth) |
| Assistant Professors: | |
| R.A.J. Syngkon | M.A. M.Com, Ph D (NEHU) |
| Mrs. S. Kharma wphlang | M.Com, (NEHU), DFM (NILEM, Chennai) |
| S.G. Maji | M.Com, Ph.D (Burdwan Univ), DBM (ICFAI) |

Student Intake

| | | | | | | |
|--------------------------------|----|----|-----|------|--------|-------|
| Enrolment capacity: M.Com - 50 | | | | | | |
| Actual admission: | SC | ST | Gen | Male | Female | Total |
| M.Com | - | 30 | 22 | 32 | 20 | 52 |
| PhD | - | 2 | 3 | 3 | 2 | 5 |

Degrees Awarded

| | | | | | | |
|---------|----|----|-----|------|--------|-------|
| Degrees | SC | ST | Gen | Male | Female | Total |
| M.Com | - | 10 | 2 | 7 | 5 | 12 |
| Ph D | - | 1 | 2 | 1 | 2 | 3 |

- Ms Priya J.R. Dkhar on the topic 'Human Resource Management in Tourism Industry: A Study of Hotels in Meghalaya', (30th April 2010), under the supervision of Dr. V.K. Shrotryia.
- Mrs Roshmi Dey (Das) on the topic 'Customer Satisfaction in SBI and other PSBs: A Study of Meghalaya', (23rd June 2010), under the supervision of Dr. V.K. Shrotryia.
- Mr D. Shome on the topic 'Disintermediation in Financial System: An Empirical Study of Indian Commercial Banks', (October 2010), under the supervision of Dr. A.P. Pati.

Courses Conducted

M.Com

Semester I: Business Environment, Organization Behavior, Corporate Accounting, Statistics for

Decision Making, Managerial Economics. Semester II: Advanced Financial Management, Marketing Management and Policy, Corporate Reporting Practices, *Service Management, NGO Management, IT and Business*. Semester III: Financial Markets and Instruments, Entrepreneurship, Cost and Management Accounting, *Financial Risk Management, Management of Small Enterprise, Business Survey and Research*. Semester IV: International Business, Strategic Management, Security Analysis & Portfolio Management, Project Planning & Control, Human Resource Management.

*Courses in italics are open courses.

Seminars/Workshops, etc.

Attended

Dr. A. P. Pati

- Conference on 'Inclusive Growth and

Micro Finance Access', held on 29th and 30th January 2011, organized by Faculty of Management Studies, Banaras Hindu University, Varanasi. Presented a paper on "Micro-Insurance, self help groups, and Inclusive growth: an observation from North East India".

2. National Seminar on Microfinance in North East, held on 28th and 29th January 2011, organized by BIRD, Lucknow in collaboration with IIBM, Guwahati. Presented a paper on "Microfinance and Socio-economic change: an Assessment of Meghalaya".

Dr. Vijay Kumar Shrotriyia

1. National Symposium on 'Maintenance of Teaching Standards in Higher Education: Issues, Problems and Reforms', held from 25.03.2011 to 26.03.2011, organized by North-Eastern Hill University Teachers' Association. Presented a paper on "Individuals and Institutions: Roadmap for Universities".
2. International Seminar on 'Impact of Globalisation on Managerial Skills,' held on 26th and 27th February 2011, organized by Swami Sukhdevanand PG College, Shahjahanpur, UP. Delivered keynote address on "Challenge of Change: Responding to the future job market" and chaired a technical session on 'Impact of Globalisation on Education and Society'.
3. National Seminar on 'Role of Commerce Education in the Economic Development of the North-Eastern Region', held on 4th and 5th February 2011, organized by Nalbari Commerce College, Assam. Delivered keynote address in the inaugural session on the theme of the seminar and presented a paper "Commerce Education and Educators: Challenge for North-Eastern Region".
4. International Conference on 'Business Ethics and Human Values' held on 22nd and 23rd December 2010, organized by University Business School, Panjab University, Chandigarh, India. Presented a paper on "Organizational Happiness through Value-Based Management – A conceptual Framework" on 22nd December 2010 and co-chaired a technical session on 'Legal Perspectives in Business Ethics' on 23rd December 2010.
5. International Conference on 'Disaster Management and Cultural Heritage – Living in Harmony with the Four Elements', held on 12 – 14 December 2010, organized by the Ministry of Home and Cultural Affairs, Royal Government of Bhutan, Thimphu. Presented a paper entitled "Using Cultural Values to deal with Crisis – a step towards leading a Happy Society".
6. International Consortium on 'Embracing Peace Education – empowering the individual, institutions and community with special focus on India', held on 6-8 November 2010, organized by The Institute of Global Education in collaboration with Peace Studies Department, Martin Luther Christian University, Shillong. Presented a paper on "Peace, Education and Happiness" on 6th November 2010.
7. Round Table Conference on 'Commerce and Accountancy Education: Issues and Challenges', held on 26th September 2010, organized by the Institute of Chartered Accountants of India, New Delhi. Participated in a panel discussion on "Integrating Accounting and Auditing

Standards in the curriculum of commerce education in Indian University system”.

8. National Symposium (UGC sponsored) on ‘Great Depression of 1930s and present Global Economic Meltdown – identifying the commonalities and lessons thereof’, held on 25-26 June 2010, organized by Shillong College, Shillong. Presented a paper as a resource person entitled “Global Economic Crisis – lessons for management of people in India” and chaired a technical session on ‘Economic Crisis and Tribal Economy’ on 26th June 2010.

Dr. S.G Maji

1. National Conference on ‘Finance & Banking 2010’, held on 3-4 September 2010, organized by Saintgits Institute of Management, Kerala. Presented a paper titled, “Operational Efficiency of Commercial Banks in India: An Empirical Analysis”.
2. National Conference on ‘Emerging Dimensions in Marketing’, held on 19-20 November 2010, organized by Saintgits Institute of Management, Kerala. Presented a paper titled “A Secured Mobile Payment Model for Developing Markets”.
3. National Conference on ‘Trends & Research Management’, held on 28th January 2011, organized by Oxford Engineering College, Tiruchirappally. Presented a paper titled, “Retail Banking in India: Problems and Remedies”.

Publications

Published in India

Kabra, K C (2010). Development of Trade & Commerce in Mizoram, *BHU*

Management Review, Vol.1, 59-68.

Maji, S G and S. Dey (2010). Credit Card Frauds and the Means to Prevent Them, *SNS Journal of Marketing*, Vol.1(1): 64-69.

Maji, S G and S. Dey (2010). Operational Efficiency of Commercial Banks in India: An Empirical Analysis. *Rediscovering Finance & Banking* (Ed) James P S, Roji George and Roshna Varghese, EXCEL India Publishers, N. Delhi; 29-43.

Maji, S G and S. Dey (2011). Retail Banking in India: Problems and Remedies. *Trends & Research in Management* (Ed) K. Sivakumar, CBA Publishers, Chennai; 301-07.

Pati, AP (2010). Carbon Trading: Global Market vs. Indian Market. *The Management Accountant*, Vol. 45(10); 798-802.

Pati, A P and B F Lyngdhoh (2010). Financial Inclusion, Women and Inclusive Growth. *The Indian Journal of Commerce*, Vol. 63 (2); 174-182.

Pati, A P and D. Shome (2010). Disintermediation in Indian commercial banks: evidences from pre and post-liberalization phases. *Journal of Applied Research in Finance*, Vol.2 (4); 168-181.

Pati, A P and D. Shome (2011). Do households still prefer bank deposits? An analysis of shift in savings and savings determinants. *IUP Journal of Bank Management*, Vol. X (1); 46-59.

Shrotriya, V K (2009). Development and Rural Happiness: Issues, Challenges and Strategies. In *Co-operative Management and Development – Text and Cases Part One* (Ed) Rais Ahmed, Mittal Publications, New Delhi, 117-34.

Shrotriya, V K (2010). Commerce and Accounting

Education at Crossroads in India: An Academician's Dilemma. *Commerce and Accountancy Education: Issues and Challenges*, Conference proceedings (Ed) ICAI, New Delhi; 91-99.

Shrotriya, V K (2010). Commerce Education In India – Past, Present and Future. *Commerce Education in North-East India* (Ed) A Rajmani Singh, Mittal Publications, New Delhi, 99-106.

Shrotriya, V K (2010). Remembering CK Prahalad (1941-2010): His Life and Academic Contributions. *Invertis Journal of Management*, Vol. 2 (2); 183-89.

Shrotriya, V K (2011). Review of *The Tao of Loyalty - Winning with Employees* by Ajit Rao (2006), [Response Books, SAGE, New Delhi, India, Pages 257] *Invertis Journal of Management*, Vol 3 (1), January, 101-105.

Published Abroad

Lange, T., G Pacheco & Shrotriya, V K, (2010). Culture, Industrialisation and Multiple Domains of Employees' Job Satisfaction: A Case for HR Strategy Redesign in India. *International Journal of Human Resource Management*, Vol. 21(13); 2438–51.

Pati, A. P (2010). Corporate Governance in Banks of India, *Anti-Crisis Paradigms of Corporate Governance in Banks: A New Institutional Outlook* (Ed) A Kostyuk, F Takeda and K Hosono, Virtus Interprise, Ukraine, 333-52.

Research Projects

New

Dr. A. P. Pati

Major (UGC): Capital Structure and Sustainability: An Empirical Study on Indian

Micro Financing Institutions, 2011.

Other Academic Activities

Prof. N. M. Panda

1. Resource person in a theoretical training programme of direct recruit section officers (Civil and Audit) organized by RTI (Indian Audit & Accounts Department) Shillong on 16, 21 and 22 April 2010 and conducted six sessions on Risk Analysis and Audit Sampling.
2. Resource person in Post Doctoral Initiation programme for the scholars of NE region organized by ICSSR-NERC at Shillong on 17-18 August 2010.
3. Resource person in UGC sponsored national seminar on Leadership Role Play in Changing Higher Educational Scenario on 12-13 March 2011 at Tinsukia Commerce College, Tinsukia, Assam and chaired two technical sessions.
4. Resource person in second ICSSR-NERC Social Scientist Meet organized by ICSSR-NERC at Shillong on 17-18 March 2011 at Shillong.

Dr Vijay Kumar Shrotriya

1. Resource person in Post Doctoral Initiation Programme for the scholars of NE Region organized by ICSSR-NERC at Shillong on 17-18 August 2010.
2. Resource person for Management Training Programme for Asstt Audit Officers to Sr AOs (Audit & A&E) organized by the Regional Training Institute, Indian Audit & Accounts Department, North Eastern Region, Shillong: Meghalaya from 14.03.11 to 19.03.11 (delivered lectures on Leadership & Organisational

NEHU Annual Report 2010-2011

Development – Group Dynamics, Team building, Conflict Mgt & Negotiation skills, Leadership styles, Creative leadership, & Change Management 15th March 2011).

Dr. K. C. Kabra

1. Delivered a series of lectures at the Regional Training Institute, Accountant

General, Government of India, Shillong on 14-19 March 2011 on Corporate Governance & Accounting Standards.

2. Delivered a series of lectures at the Master of Finance Certificate Programme of M L Sukhadia University, Udaipur during January 2011 on Correlation and Index Numbers.

Department of Economics

Head : Prof. B. Mishra
Telephone : (0364)2723178(O), 2550391/2726178 (R)
Email : bmishra_nehu@hotmail.com

Thrust Area

The thrust areas of the department are: (1) Economics of the North-Eastern Region, (2) Issues of Development Economics, (3) Quantitative Economics, (4) Industrial and Agricultural Economics, and (5) Public and Environmental Economics.

Brief Statement of Academic Activities

During the year, the department concentrated

on its postgraduate teaching programme 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 and international journals. Faculty members of the department have been appointed members of expert committees and working groups set up by the Government of India and Government of Meghalaya.

Faculty

Professors : S. K. Mishra, M.A. (Bhagalpur U), M.R.P., Ph.D. (IIT Kharagpur)
N. Srivastav, M.A. (Rajasthan U), 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 U)

Associate Professors : U. K. De, M.Sc., Ph.D. (Burdwan U)
B. Panda, M.A. (Utkal U), M.Phil (Berhampur), Ph.D. (Utkal U)
P. S. Suresh, M.A., M.Phil. (S.V. Univ.), Ph.D. (Hyd. U)

School of Economics, Management and Information Sciences

| | | |
|----------------------|---|-----------------------------------------------|
| | | B. K. Dutta, M.A., Ph.D. (NEHU) |
| Reader | : | S. Umdor, M.A., Ph. D. (NEHU) |
| Assistant Professors | : | W. Tariang, M.A. (NEHU) |
| | | D. Nongkynrih, M.A., Ph. D. (NEHU) |
| | | D.W. Thangkhiew, M.A. (NEHU) |
| | | D. Das, M.Sc. (Gauhati), Ph.D. (IIT Guwahati) |
| | | Veronica Pala, M.A., Ph.D. (NEHU) |

Student Intake

| | | | | | | |
|--------------------------------------------------------|------------|-------------|----|-------|--|--|
| Enrollment Capacity: M.A- 55, M. Phil – 20, Ph. D - 20 | | | | | | |
| Actual Admission | SC/ST/Genl | Male/Female | | Total | | |
| M.A./M.Sc. | 1 51 3 | 26 | 29 | 55 | | |
| Ph.D | 0 8 9 | 9 | 8 | 17 | | |

Degrees Awarded

| | | | | | |
|---------|------------|-------------|----|-------|--|
| Degrees | SC/ST/Genl | Male/Female | | Total | |
| M.A. | - 34 6 | 13 | 27 | 40 | |
| PhD | 1 3 | 3 | 1 | 4 | |

1. Ashutosh Dey, “Impact of Rural Development on Eradication of Poverty: A Case Study of Meghalaya”. Supervisor: Prof. E.D. Thomas
2. Amrita Devi, “Valuation of Tourist Sites in Meghalaya: A Case Study of East Khasi Hills, 2010”. Supervisor: Dr. U.K. De.
3. Jugal Saikia, “Economics of Informal Milk Producing Units in Guwahati City”. Supervisor: Dr. B. Panda.
4. Keshab Basumatary, “Political Economy of Bodo Movement in Assam”. Supervisor: Prof. P. Nayak.

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, Advance Mathematics for Economists, Demography, Economics of Agriculture, Economics of Law, Economics of Gender, Economy of north-Eastern Region, Experimental Economics, Evolutionary Economics, Mathematical Economics and Welfare Economics.

Courses Conducted

M.A/M.Sc.:

Core Courses: Micro-economic Analysis-I, Macro-economic Analysis-I, Mathematics

MPhil/Ph.D

Research Methodology in Economics; Contemporary Economic issues; Recent Advances in Economic Theory.

Seminars/Conferences/Symposia/Workshops/Extension Programmes

Organised

Dr. B. Panda organised and coordinated a 5-day workshop on Research Methods in Labour Studies sponsored by V.V. Giri National Labour institute, NOIDA from 17th to 21st August 2010 on NEHU Campus, Shillong. He also organised and coordinated a two day workshop in the department on 'Soft Skills' for the students of 4th Semester in collaboration with Prof. Parikh from Pune on 4-5th May 2010.

Attended

Prof. B. Mishra presented a paper entitled "Tribal Fiscal Dilemma and Tax Efforts: Implications for Economic Development of North-Eastern States" at the national conference on "Economic Development in Assam (In the context of North-East Juxtaposition and Look East Policy)" organized by Krishna Kanta Handique State Open University, Guwahati, Assam, 13-15 December 2010.

Dr. B. Panda (i) attended an international seminar on 'From Land locked to Land Linked: North East India in BIMSTEC', 9th-10th April, 2010, Shillong, organized jointly by Ministry of External Affairs, GOI, JIIR, CII and NEHU and presented a paper entitled "Regional Economic Integration, BIMSTEC and the North East: Role of Infrastructure and Institutions", (ii) presented a paper entitled, "Sustainable Development and MGNREGA" at the national seminar on 'Development and Ecology: Issues and Perspectives' held on 21st March 2010 in NEHU Campus, Shillong and organized by Department

of Sociology, NEHU, (iii) presented a paper titled, "Trust, Cooperation and Efficiency Deficits in Indian Universities" at the 3rd national seminar on 'Maintenance of Teaching Standards in Higher Education: Issues, Problems and Reforms', organized by NEHUTA and held in NEHU Campus, Shillong from 25th to 26th March 2011.

Dr. U.K. De presented a paper with Neelanjan Sen and Bhola Nath Ghosh on "Gender Deprivation in Rural Jharkhand: A Case Study" at the Seventh Conference of IASSH on 'Health, Poverty and Human Development', held at Benaras Hindu University on March 5-7, 2010. He presented another paper on "Economic Impact of Coalmining and its Trade in Meghalaya with Special Reference to Jaintia Hills District" at the national level Biodiversity and Social Security Consultation on Optimizing Biodiversity and Social Security in Indian Mining Areas, organised by Balipara Tract and Frontier Foundation at Balipara, Assam on 2-3 December, 2010. He presented a paper on "Factors affecting Dependence on Forest and Degradation: Evidence from Meghalaya" at the national conference on Economic Development of Assam: in the Context of North-East Juxtaposition and Look East Policy organized by K. K. Handique State Open University, Assam on 13-15 December 2010.

Ms. Daisy Das presented a paper titled "Variation in Quality of Life: a Case Study" at the Indian Social Science Congress held in Gauhati University, 27th - 31st December 2010. She also presented a paper titled "Living in Guwahati: an Environmental Perspective" at the national conference on Economic Development of Assam, K.K.H. State Open University, held in Don Bosco Institute, Guwahati, 13th-15th December 2010.

Publications

Published in India

De, U. K. (2010), Population Dynamics and the Demographic Dividend in Meghalaya in B. J. Deb (ed.) *Population and Development in North-East India*, Concept Publishing Company, New Delhi, 167-192.

De, U. K. and Das Manjit (2009), Ericulture as a Remedy of Rural Poverty in Assam: A Micro Level Study in Barpeta District in D. Mukherjee (ed) *Indian Handloom and Handicrafts: Issues and Experiences*, The ICFAI University Press, Hyderabad, 170-192.

Hussain, Moon Moon and P Srinivasa Suresh: 2011. Determinants of Public Expenditure: A Survey Article *International Journal of Business Management, Economics and Information Technology*, Vol.2, No.1, January-June, 2010: 55-72.

Mishra, S.K. 2010. The Most Representative Composite Rank Ordering of Multi-Attribute Objects by the Particle Swarm Optimization. *Journal of Quantitative Economics*, 8(2): 165-200.

Mishra, S.K. 2010. A Brief History of Production Functions. *The IUP Journal of Managerial Economics*, VIII (4): 7-36.

Mishra, S.K. 2010. Fitting an Origin-Displaced Logarithmic Spiral to Empirical Data by Differential Evolution Method of Global Optimization. *IUP Journal of Computational Mathematics*, III (3): 7-14.

Mishra, S.K. 2010. Is Journal Impact Factor a Good Measure of Research Merit? *The NEHU Journal*, VIII (1): 107-122.

Mishra, S.K. 2010. Temporal Changes in the Parameters of Statistical Distribution of Journal Impact Factor. *IUP Journal of Computational Mathematics*, 3(4): 7-29.

Mishra, S.K. 2010. What Determines the

Academic and Professional Participation of Economists? *The IUP Journal of Managerial Economics*, VIII (1-2): 33-46.

Mishra, S.K. 2010. Performance of Differential Evolution and Particle Swarm Methods on Some Relatively Harder Multi-modal Benchmark Functions. *The IUP Journal of Computational Mathematics*, III (1): 7-18.

Mishra, S.K., M.L. Ngullie. 2010. Hedonic Demand for Rented House in Kohima, Nagaland. in Singha, K. (ed) *Rural Development in India: Retrospect and Prospects*. New Delhi: Concept Publishing Co: 90-97.

Mishra, S.K., T. Jamir. 2010. Micro-analysis of Private Colleges in Nagaland. *The FedUni Journal of Higher Education*, 5(1-2): 41-62.

Nayak, P. (2010): "Human Development in North-East India" *Yojana*, Vol.54, Special Issue, North East Focus: Meghalaya, December, 30-34.

Srivastav, N. (2011): "Poverty in the Northeastern States of India: An Inter-Temporal Analysis", In Agarwal A.K and B. Singh (eds.) *Understanding India's Northeast*, DVS Publishers, New Delhi, pp 59-69.

Suresh, P.S., B. Mishra, K. Rio (2010) Capacity Utilisation in Private School in India: A Case Study of Nagaland. in C. Samudhra Rajakumar (eds) *Emerging Issues in Management*. New Delhi: Serial Publications: 222-239

Umdor, S. 2011 Local Governance in Northeast: Local Governance in Meghalaya, Decentralization Community, UN Exchange Solutions. Community Update, Community Update No. 55: 4 March 2011

Published Abroad

De, U. K. and B. N. Ghosh (2011), "Empowerment of Rural Women in Backward Region of India: A Comparative Study of Jharkhand, Tripura and Meghalaya" in UK De

and BN Ghosh (eds.) *Gender Deprivation and Empowerment of Women: An Indian Perspective*, Lambert Academic Publishing, Germany, pp. 111-146.

De, U. K. and Chattopadhyay, M. (2010), "Crop Diversification by Poor Peasants and Role of Infrastructure: Evidence from West Bengal", *Journal of Development and Agricultural Economics*, Vol. 2, No. 9, October, pp. 340-350.

De, U. K. and Das, M. (2010), "Economics of Sericulture in Assam: A Comparative Analysis of Three Cultivars", *South Asia Economic Journal*, Vol. 11, No. 2, pp. 309-336.

De, U. K. and Das, M. (2010), "Excess Capacity in Ericulture of Assam: An Econometric Analysis", *Journal of Social and Economic Policy*, Vol. 7, No. 1, June, pp. 115-128.

De, U. K. and Das, M. (2010), "Scope of Ericulture in Assam: A Micro-econometric Analysis" *Journal of Agricultural Extension and Rural Development*, Vol. 2, No. 6, August, pp. 106-115.

De, U. K. and Devi, Amrita (2010), "Nature Based Tourism, Seasonal Variation and Its Impact on Employment and Income: Evidence from Meghalaya", *Journal of Environmental Management and Tourism*, Vol. 1, No.2, pp. 116-131.

De, U. K. and M. Pal (2011), "Dimensions of Globalisation and Their Effect on Economic Growth and Human Development Index", *Asian Economic and Financial Review*, Vol. 1, No 1, pp. 1-13.

De, U.K. And B. N. Ghosh (2011): *Gender Deprivation and Empowerment of Women: An Indian Perspective*, Lambert Academic Publishing, Germany.

Mishra, S.K. 2010. On Harnessing Natural Resources for Sustainable Development. *Journal of Environmental Management and Tourism*, I-1(1): 12-21.

Panda, B., 2011, Rural Non-Farm Employment in India and Thailand, *Dudweiler Landstr.* 99, Germany: VDM Verlag.

Santos, C.A.G., L.E.M. Pinto, P.K.D.M.M. Freire, S.K. Mishra. 2010. Application of Particle Swarm Optimization to a Physically-based Erosion Model. *Annals of Warsaw University of Life Sciences – SGGW: Land Reclamation*, 42(1): 39-49.

Sen, Neelanjan; U. K. De and B. N. Ghosh (2010), "Gender Empowerment, Deprivation and Poverty in Rural Jharkhand: A Case Study" *International Journal of Current Research*, Vol. 11, pp.107-116, December.

Funds Received

1. Asian Development Bank as consultancy fee for the project "Procurement and Analysis of Survey Data: Identifying Districts in NSS and ASI Micro Data over Time"; Amount: Rs. 1, 30,000/- approx (USD 3000) by Dr. (Mrs.) V. Pala.
2. Indian Institute of Dalit Studies, New Delhi for the project on "Social Structure and Educational and Employment Achievements: A Study Of Disparities Across Different Social Groups In India during 1983 to 2004-05", Amount: Rs. 50,000/- - (First Installment of the total amount of Rs. 1,50,000/-) by Dr. (Mrs.) V. Pala.
3. UNDP India for the Project "Appraisal, Evaluation and Impact Assessment of NREGA in the State of Assam" Amount, Rs. 6,40,000, by Dr. B. Panda.

Research Projects

Completed

1. "Empowerment of Women in Rural Areas: A Comparative Analysis of Tripura, Meghalaya and Jharkhand" Indian Statistical Institute, Kolkata, 2010, Co-

Principal Investigator: Dr. U.K. De (PI: B. N. Ghosh).

2. "Procurement and Analysis of Survey Data: Identifying Districts in NSS and ASI Micro Data over Time"; Funding agency: Asian Development Bank; Principal Investigator: Dr. Veronica Pala.

Ongoing

1. Dr. U.K. De is the Principal Investigator of the major research project "Valuation of Some Tourist Sites in Khasi Hills of Meghalaya", sponsored by UGC.
2. Dr. Veronica Pala is the Principal Investigator of the major Research Project "Social Structure and Educational and Employment Achievements: A Study of Disparities Across Different Social Groups in India during 1983 to 2004-05"; Funding agency: Indian Institute of Dalit Studies, New Delhi.
3. Dr. S. Umdor is the Co-Principal Investigator of the Project entitled 'Flow of Central Development Funds to the Northeast Region and its Utilization' funded by Planning Commission, Government of India (PI: Prof. M.P Bezbaruah, Guwahati University). He is also the Principal Investigator of the Project entitled 'Local Government Finance in Sixth Schedule Areas of Northeast India' funded by Indian Council of Social Science Research (ICSSR), New Delhi.
4. Dr. B. Panda is the Principal Investigator of the Project entitled 'Appraisal, Evaluation and Impact Assessment of NREGA in the State of Assam' funded by UNDP India. He is also the Principal Investigator of the Project entitled

'Growth, Composition and Determinants of Rural Non Farm Employment in North East India' funded by V.V. Giri National Labour Institute, NOIDA, India.

Academic/ Professional Collaboration

Dr. B. Panda continued to collaborate with the Ministry of Rural Development, GOI in the capacity of a member of the working group in Capacity Building in MGNREGA and member, Expert Committee for Formulating Research Methodology in MGNREGA and provided inputs for policy based on development theory, practice and research.

Honours/Awards/Recognition

Dr. S. Umdor was appointed as a Member of Social Audit Bill Drafting Committee, Government of Meghalaya.

Other Academic Activities

Prof. P. Nayak chaired the technical session on "Policy Formation of Govt. of India" at ICSSR, NERC, Shillong in which Prof. Kaushik Basu, Chief Economic Advisor to the Govt. of India delivered his invited lecture. He chaired the second technical session of the national seminar on "Human Development, Environment and Common Property" at Manipur University, Imphal on 9-10 June 2010. He participated in the national workshop on "Promoting Entrepreneurship in the Science and Technological Institutions of North East" on 23 June 2010 in Shillong organized by Entrepreneurship Development Institute of India, Lucknow. He was invited as a Resource Person and chaired two technical sessions in the national seminar on "Socio-Economic Conditions of Women in Rural India and their Role in Development" at B.B. Kishan College, Jalah, Assam, 28-29, August 2010. He was invited as a Commentator to the Eighth Technical

Session of the Second Social Scientists' Meet held at ICSSR-NERC, NEHU Campus, Shillong, 14-16, March 2011.

Prof. N. Srivastav delivered two lectures on "Trends in Macro-Economic Indicators in India: A Post-reform Analysis" in the training programme for the AAO (Probationers) of 2010 in November 2010 at the Regional Training Institute, Shillong. He also delivered two lectures on "Strategy for Growth, Employment and Poverty Reduction in NE States of India" under the SAP-UGC sponsored Programme organized by the Department of Economics, University of Rajasthan, Jaipur on January 10-11, 2011.

Prof. B. Mishra chaired one technical session of the national seminar on 'Industrialisation in Assam: Problems and Prospects' at Lalit Chandra Bharali College, Maligaon, Guwahati, Assam, 7-8 May 2010. He also chaired two technical sessions at the national seminar on 'Socio-Economic Conditions of Women in Rural India and their Role in Development' at B.B. Kishan College, Jalah, Assam, 28-29 August 2010. He delivered the key-note address at the national seminar on 'Managing Water Crisis in Rural areas: Key to Sustainable Development' at Nayagarh Autonomous College, Nayagarh, Orissa, 19-20 January 2011. He was invited to attend a one day Regional Consultative meeting on 'Issues to be addressed in the Approach Paper for the Twelfth Five Year Plan' organized by the Decentralization Community of UN Solution Exchange, India, on the 26th of November, 2010 at the Institute of Local Government and Urban Studies, Kolkata, West Bengal.

Dr. U.K. De delivered two lectures on "Privatisation and Disinvestment- An Overview" and "Privatisation of Education in Indian Perspective" in the training programmes

for the AAOs (Probationers) of 2010 on 6-11-2010 at the Regional Training Institute, Shillong. He delivered a lecture on "Time Series Econometrics" on 19-8-2010 in the Course on Research Methods in Labour Studies for North-Eastern States organized by V V Giri National Labour Institute, Noida and NEHU, Shillong on 17-21 August 2010.

Dr. S. Umdor was invited to attend a one day Regional Consultative meeting on 'Issues to be addressed in the Approach Paper for the Twelfth Five Year Plan' organized by the Decentralization Community of UN Solution Exchange, India, on 26th November 2010 at the Institute of Local Government and Urban Studies, Kolkata, West Bengal. He was also invited to attend a one day National Consultative meeting on 'Issues to be addressed with regard to Decentralization, Empowerment and Information in the Approach Paper for the Twelfth Five Year Plan' organized by the Decentralization Community of UN Solution Exchange, India, on the 6th of December, 2010 at the UN Conference Hall, New Delhi.

Dr. B. Panda delivered a lecture on "Impact of Insurgent Activities on the economic development of the country" on 9.2. 2011 in the Refresher Course for newly promoted Dy. SPs of the NE Region organized by North Eastern Policy Academy, Shillong. He was invited to deliver a lecture on 5th June 2010 in North Eastern Police Academy, Shillong titled "Implications of Law and Order for Development" to a gathering of SPs/DIGs. He attended the Working Group on Capacity Building in MGNREGA constituted by Ministry of Rural Development, Govt. of India. He participated as a member of the expert committee constituted by MORD, Govt. of India to formulate research methodology in MGNREGA. He also participated in a one day presentation workshop of post doctoral initiation programme organized

by ICSSR–NERC, NEHU Campus, Shillong on 18th August 2010 and evaluated two post doctoral research proposals. He chaired a technical session of the national seminar on “Development and Ecology: Issues and Perspectives” held on 21st March 2010 in Shillong organized by Department of Sociology, NEHU.

Dr. Deigracia Nongkynrih delivered a lecture on “Trends in Women Work Participation” at the Research Methods Course in Labour Studies for North Eastern States (August 17-21, 2010), organized by the V.V. Giri National Labour Institute, Noida & North-Eastern Hill University, Shillong.

Dr. V. Pala gave a lecture on “Analysing Labour Issues using NSS Data” at the Research Methods Course in Labour Studies for North Eastern States organized by the V. V. Giri National Labour Institute, NOIDA and North-Eastern Hill

University, Shillong during August 16 – 20, 2010 at NEHU, Shillong.

Mrs. D.S.W. Thangkhiew attended the Research Methods Course in Labour Studies Organized by V.V.G.N.L.I, Noida & Department of Economics, NEHU, on 17-21 August 2010. She also attended the national seminar on ‘Maintenance of Teaching Standards in Higher Education: Issues, Problems & Reforms’ organized by NEHU Teachers Association on 25th-26th March 2011.

Dr. D. Das attended the national seminar on ‘Maintenance of Teaching standards in Higher Education: Issues, Problems and Reforms’, organized by NEHU teachers’ Association, held in NEHU, March 25-26, 2011 and delivered lectures in the training course of Indian Audit Officers on Fiscal Federal Relation in India and Public Debt in India at the Regional Training Institute, Shillong in November 2010.

Department of Library & Information Science

Name of the Head : Prof. M. Masoom Raza
Telephone : 9774480727 (M) 2723141 & 2723142(O)
Email : masoomr@yahoo.com

Thrust Area

The thrust areas of the department are 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

Apart from attending to regular teaching and research programmes the faculty members participated in various seminars and conferences, presented papers and delivered lectures. They also participated as resource persons in refresher and orientation courses. The faculty members also published a number of research papers in leading professional journals and participated in seminar/

conference proceedings at national and international levels.

Faculty Profile

Professors : Prof. M. Masoom Raza, MSc, MLISc, PhD (PU Chandigarh)
 Associate Professor : Dr. Moses M. Naga, MLISc, Ph. D (NEHU)
 Dr. Bikika Laloo, MLISc. (NEHU),
 Assistant Professors : P. Hangsing, MLISc. (Delhi), PGDCA, Ph.D (NEHU)
 Jacqueline Jean Thabah, MLISc. (NEHU)
 Jiarlimon Khongtim, MLISc, PGDCA (NEHU)

Student Intake

Enrolement Capacity : 30

| Actual Admission | SC | ST | GEN | M | F | TOTAL |
|------------------|----|----|-----|---|----|-------|
| M.L.I.Sc. | 1 | 29 | NIL | 4 | 26 | 30 |

Degrees Awarded

| MLISc: | SC | ST | GEN | Male | Female | Total |
|--------|-----|----|-----|------|--------|-------|
| | NIL | 13 | NIL | 3 | 10 | 13 |

PhD

| Name of the candidate | Topic of research | Name of the supervisor |
|-----------------------|------------------------------------------------------------------------------|------------------------|
| Mr. George Plathottam | “Press and its Social Responsibility In Northeast India: A content Analysis. | Dr. P. Hangsing |

Courses Conducted

MLISc:

Foundations of Library & Information Science, Organization of knowledge (Theory), Organisation of knowledge (Practical), Information Sources & Services, Introduction to Information Technology, Database Management System, Organisation of Knowledge (Theory), Organisation of Knowledge (Practical), Library Software Packages (Practical), Library House Keeping Operations, Library System Analysis & Design, Information Users & Their Needs, Information Retrieval, Research Methodology in Library & Information Science, Management of Library & Information Systems, Information

Communication Technology, Collection Development, Project Report/Dissertation.

PhD:

Research Methodology in Library and Information Science, Advances in Knowledge Management and Organisational Studies, Advances in Library and Information Management, Trends in Libraries and Librarianship, Advances in Information System Studies, and Review of Literature.

Study Tours

A Study Tour to Kolkata for the Second Semester students of the department was carried out during 2010-11. The students (23 girls and 4 boys) under the guidance of Dr. Moses M.

School of Economics, Management and Information Sciences

Naga visited the following libraries: American Resource Center, Jadavpur University, National Library, Indian Institute of Technology (IIT),

Kharagpur Library, Raja Ram Mohan Roy Library Foundation, and British Council Library.

Seminars/Conference/Workshops/Extension Programme

Organised

| Theme of the programme | Date | Venue & name of the organiser |
|--------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Workshop on LIB 2.0 | 7 th – 9 th March 2011 | Department of Library & Information Science, NEHU, Shillong. Prof. M.M. Raza Academic Staff College, NEHU, Shillong, Prof. M.M. Raza |
| 2. Organised a Refresher Course in Library and Information Science | 27 th April to 17 th May, 2011 | |
| 3. National Seminar on Personality Development in the Library Profession | 21-23 October 2010 | Department of Library & Information Science, NEHU. Dr. Bikika Laloo. |

Attended

| Name of the Teacher | Title of the Paper presented | Theme of the Seminar/Conference | Organised by | Date & Venue |
|---------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------|
| Dr. Moses M. Naga | "Information Services on Rural Development Programmes in North East India" | 'Making Library Services Reach the unreached' | Department of Library & Inf. Science, Manipur University. | 28-29 October 2010. Manipur University. |
| Dr. P. Hangsing | Application of Mobile Technologies in Higher Education Sectors: A Study | National Seminar on Making Library Services Reach the Unreached | Manipur University, Imphal | 28 th to 29 th October 2010 Manipur University, Imphal. |

Publications

Published in India

Khongtim, J. Library 2.0: Are Shillong Libraries ready for it? *Library Herald*, Vol.48 (3), September 2010, 248-54.

Khongtim, J. Personality Development and Librarianship. Proceedings of the National Seminar on Personal Development in the Library Profession held on 21- 23 October, Shillong: Calron Impressions, 2010, 36-43.

Laloo, B. and Passah, P. Time Management in a One Person Library. *Personality Development*

in the Library Profession: Proceedings of the National Seminar on Personality Development in the Library Profession, Edited by B. Laloo. Shillong: Calron Impressions, 2010.

Laloo, B. Library Science Education in Practice: Some Reliable Teaching Resources for All Times. *Library and Information Science in the Digital Era, Proceedings of the 55th All India Library Conference of the Indian Library Association*, Edited by D.V. Singh, Birla Institute of Technology, Greater Noida, Published by the Indian Library Association, Delhi, 2010, 811-19.

Laloo.B. (Ed)(2010) *Personality Development in Library Profession*. Shillong: Calron Impressions, 2010.

Thabah, J.J. and Nonglait, Jusaphine L. (2010) "Stress Management in NEHU central Library". In *Personality Development in the Library Profession*. Ed. Dr. B. Laloo. Shillong: Calron Impressions, 2010, 359-75.

Published Abroad

Raza, Masoom (2010) "Utilization of Library Resources and Services in the Select Management Institutes: A Study. *International Journal of Library Science*, 3(j11), 75-85.

Raza, Masoom (2010) "Use of E-Journals by the Researchers: A comparative Study". *International Journal of Library Science*, 2(A 10), 52-63.

Raza, Masoom (2010) "Information Seeking Behaviour of Researchers in the Central Drug Research Institute (CDRI), Lucknow. *Library Philosophy and Practice*, June, 1-10.

Funds Received

For the national seminar on PDLTLP (Personality Development in Library Profession) on 21–23 October 2010.

1. North Eastern Council (NEC) Rs. 1.25 lakhs
2. Indian Council of Social Science Research (ICSSR-NERC) Rs. 75,000/-
3. Raja Ram Mohan Roy Library Foundation (RRRLF) Rs. 1.00 lakhs
4. NEHU Rs. 50,000/-

Other Academic Activities

Prof. M.M. Raza was a Resource Person for a workshop on Knowledge Repositories at Mizoram University, Aizawl on 18th – 20th November, 2010. He was keynote speaker at the national seminar on 'Contemporary Issues for the information professionals in a Digital Era(NASIP 2011)' held at IMMANTEC, Gaziabad in collaboration with Management Library Network (MANLIBNET), New Delhi on January 22, 2011.

Department of Management

Name of the Head : Dr. Kushendra Mishra
Telephone : 03651-224566(O), 09436702080 (M)
Email : kushendra78@gmail.com

Thrust Area

The department offers specialization in the areas like, Marketing Management, Human Resource Management, Finance and Agri-business Management.

Brief Statement of Academic Activities

The Department of Management was established in July 2006 offering Master of Business Administration and PhD programmes. Students are admitted to MBA programme

School of Economics, Management and Information Sciences

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 faculties from premier institutes across the globe are invited to interact with our students for

encouraging and strengthening cross-fertilization of ideas. The department has a fully networked industry-university interface cell looking after the winter training and final placements 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, RGVN, PRADAN, ICICI, HDFC-SL etc. showing keen interest in our department. The placement has been 100% with average CTC offered being 3.5 lakhs.

Faculty Profile

| | |
|---------------------|------------------------------------------------------------------------------|
| Professor | Gandu Singaiah, MBA; PhD (Utkal U) |
| Associate Professor | K. Mishra, MMS; PhD (Lucknow U) J. U. Ahmed, LLB; M.Com; PhD (Assam U) |
| Assistant Professor | Benjamin F. Lyngdoh, M.Com (Gauhati U) Deepak Bhagat, MBA (Assam Agri. U) |

Visiting and Guest Faculty

| | |
|------------------------|---------------------------------------|
| Prof. B.N. Singh | IIT, Kharagpur |
| Prof. Nimit Chowdhury | IITTM, Gwalior, MP |
| Prof. AK Mishra | Mizoram University |
| Prof Ran Singh | Punjabi University, Patiala |
| Prof Gurucharan Singh | Punjabi University, Patiala |
| Prof. Yogesh Upadhya | Jiwaji University, Gwalior, MP |
| Prof. Manas Pandey | VBS University, Juanpur, UP |
| Prof. K. C. Talukdar | Assam Agricultural University, Jorhat |
| Dr. Ashish Bajpai | BHU, Varanasi, UP |
| Mr. Samip Baruah | ITC, Kolkata |
| Miss. Mischelle Sangma | IIM Bangalore |

Students Intake

Enrollment Capacity: MBA – 33

PhD - 20

Actual Admission:

| | SC | ST | Gen | Male | Female | Total |
|-----|----|----|-----|------|--------|-------|
| MBA | 3 | 18 | 9 | 19 | 11 | 30 |
| PhD | 0 | 2 | 2 | 3 | 1 | 4 |

Degrees Awarded

| | SC | ST | Gen | Male | Female | Total |
|-----|----|----|-----|------|--------|-------|
| MBA | 5 | 10 | 12 | 24 | 3 | 27 |
| PhD | 0 | 0 | 0 | 0 | 0 | 0 |

NEHU Annual Report 2010-2011

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 specializations are to be pursued in each semester.

Study Tours/Regular Industrial Visits

| Date | Place of Visit | Teacher-in-Charge |
|-----------------|-------------------------------------------------------------------------------------|-------------------|
| 25 January 2010 | Manali, Shimla and Delhi | Dr. K. Mishra |
| September 2010 | Visited cashew nut and pineapple processing industries at Phulbari, West Garo Hills | Mr. Deepak Bhagat |

Seminars/Conferences/Workshops/Extension Programmes

Organised

| Theme | Date | Venue | Coordinator/Organiser |
|---------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------|
| Entrepreneurship Development Programme on computer hardware and Networking (LAN, WAN) | 31/03/2011 to 19/03/2011 | Department of Management, NEHU | Prof. G. Singaiah |
| Management Development Programme (MDP) on perspective planning | 17-21 May 2011 | IIT Guwahati | K. Mishra, Co coordinator/ IIT Guwahati and Planning Commission, New Delhi |
| Refresher Course entitled 'Business Studies' | 29 th November - 19 th December 2010 | Department of Management | Dr. J. U. Ahmed/ UGC Academic Staff College, NEHU |
| Management Development Programme (MDP) in collaboration with MSME | February 2010 | Department of Management | Dr. J. U. Ahmed |

Attended

| Name of the teacher | Title of paper | Theme | Organiser | Date | Venue |
|---------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| Dr. K. Mishra | Service Quality and quality certifications: An insight from selected Indian Pharmaceutical companies | Service quality Paradigms | Institute of Quality Research, Kanpur | 26 th April 2010 | HBTI Kanpur |
| Dr. K. Mishra | FDI in Indian Retail sector: Challenges and way ahead | National Seminar on Issues and challenges in Indian Retail sector | School of Management, Punjabi University, Patiala | 11 th -12 th November 2010 | Punjabi University Patiala |
| Dr. K. Mishra | Tourism in North East India: Issues and Challenges | Indian Tourism Congress | Emirates Academy of Hospitality Management | 10 th -11 th September 2010 | Imperial Suites Hotel Dubai |
| Mr. B.F. Lyngdoh | Microfinance and Socio-economic Change: An Assessment of Meghalaya | Microfinance in North-East | Bankers Institute of Rural Development, Lucknow | 28 th - 29 th January 2011 | Indian Institute of Bank Management, Guwahati |

School of Economics, Management and Information Sciences

| | | | | | |
|-------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------|
| Mr. Deepak Bhagat | Agribusiness Opportunities in Meghalaya: A Marketing and Supply Chain Perspective | XXXIV Indian Social Science Congress | Indian Academy of Social Sciences | 27 th – 31 st December 2010 | Gauhati University, Guwahati |
| Mr. Deepak Bhagat | Factors affecting market accessibility of small farmers: A supply chain perspective | Biennial Supply Chain Management Conference 2011 - Opportunities and Challenges in Services Supply Chain | Indian Institute of Management, Bangalore | 7 th -8 th , January 2011 | Indian Institute of Management, Bangalore |
| Mr. Deepak Bhagat | Determinants of entrepreneurial success in hilly areas- a study of rural entrepreneurs in West Garo Hills, Meghalaya | International Conference on Managing Sustainable Development of Rural Economy and Agribusiness (ICONBHU11) | Department of Agricultural Economics, Institute of Agricultural Sciences | 21 st – 23 rd January, 2011 | Banaras Hindu University, Varanasi |

Publications

Published in India

Ahmed, J.U (Eds) (2010). *Micro Finance in India: Issues and Challenges*, Guwahati: DVS Publishers.

Ahmed, J.U. (2010). Customers Orientation and Service Quality of Commercial Banks: The Empirical Evidence from State Bank of India, *International Journal of Management*, 1 (2): 174-203.

Ahmed, J.U. (2010). The Growth Performance of Micro and Small Enterprises in the Global Era: Evidence from Indian Industrial Sector, *International Journal of Economics*, 4 (2): 295-310.

Ahmed, J.U. 2010. Priority Sector Lending by Commercial Banks in India: A Case of Barak Valley, *Asian Journal of Finance & Accounting*, 2(1:E5).

Ahmed, J.U. 2010. Problems Experienced by Rural Entrepreneurs: A Case Study in Garo Hills of Meghalaya, in Mandal, R.K (Ed) *Entrepreneurship and Rural Development in North East India*, DVS Publishers, Guwahati, 222-29.

Ahmed, J.U. 2010. Rural Transformation in India: A Study on the Efficacy of DWCRA, in Singha,

K (ed) *Rural Development in India: Retrospect and Prospects*, Concept Publishing Company Pvt. Ltd, New Delhi, 98-107.

Ahmed, J.U. 2010. The Issues Relating to the Development of MSEs in the Global Era, in Islam, B. I (ed), *Mizoram: The Emerging Issues of Development*, DVS Publishers, Guwahati, 136-62.

Bhagat, D. (2010). A study on consumer's perceived value and satisfaction with insecticides used in paddy in Jorhat district of Assam. *Indian Journal of Marketing*, Volume 40(10): 17- 24.

Bhagat, D. (2010). Globalization, agriculture and revealed comparative advantage: policies and strategies for north- east India. *The NEHU Journal*, Volume VIII (2): 35- 52.

Bhagat, D. (2010). Microfinance in Garo Hills- Accomplishments, Opportunities and Challenges. In Ahmed, J. U. (ed) *Development Scenario of North East India: A Holistic Approach*. DVS Publishers, Guwahati.

Bhagat, D. (2010). Regional Disparities In Microfinance- Analysing the SHG Bank Linkage Programme In North- East India. In Ahmed, J. U., Bhagat, D. & Singaiah, G. (eds). *Microfinance in India- Issues and Challenges*. DVS Publishers, Guwahati.

Bhagat, D. (Eds) (2010). *Micro Finance in India: Issues and Challenges*, Guwahati: DVS Publishers.

Lyngdoh, B.F. (Eds) (2010). *Micro Finance in India: Issues and Challenges*, Guwahati: DVS Publishers.

Lyngdoh, B.F. (Eds) (2011). *Microfinance and India's Rural Economy*. New Delhi: New Century Publications.

Mishra, K. (Eds) (2010) *Quality in Service sector: An Objective reality*, New Delhi: Palaka Prakashan.

Research Projects

Completed

| Title of project | Funding agency | PI |
|-----------------------------------------------------------------------------------------------------------|----------------|------------------|
| Socio-economic Outcomes of Microfinance Intervention: A Study on Women Microfinance Clients of Meghalaya. | UGC, New Delhi | Mr. B.F. Lyngdoh |

Ongoing

| Title of project | Funding agency | PI |
|--------------------------------------------------------------------------------------------------|----------------|-------------------|
| Evolution of Entrepreneurial Motivation from Cross-Cultural Perspectives in the North East India | UGC | Prof. G. Singaiah |
| Performance of Commercial Banks in India: The Profitability and Productive Efficiency | ICSSR | Dr. J. U. Ahmed |

Other Academic Activities

Prof. G. Singaiah delivered as a guest faculty lectures on “Cross-Cultural Management” during May 2010 at the Department of Management, Nagaland University, Dimapur. He also delivered the valedictory speech at the national seminar on Corporate Social Responsibility organized by Noble Institute of Science and Management on 18/12/2010 at Visakhapatnam. He chaired the technical session of the national seminar on Human Capital and its Challenges organized on 09/01/2011 by Siddhartha PG college of Management, Vijyawada. He delivered special lecture on Motivational cross-culture by VRS Syran PG College, Chirala on 28 January 2011 and at Maharaj College of PG courses, Vijayanagaram on 5th February 2011.

Dr. K. Mishra organized the cultural fest MO-SAIC to showcase the essence and the importance of management education in the region on 8th October 2010. Around 300 students participated in various management-related simulation exercises and events. He acted as resource

person in the Entrepreneurship Development Programmes conducted by SISI and Department of Tourism, Government of Meghalaya at Tura during April 2010. He taught a module (Business Ethics) at the University of Lucknow, Department of Management, from December 22 to January 08, 2010. He delivered two lectures on Research Methods at the workshop organized by the Academic Staff College of University of Lucknow on January 10, 2011. He served as Managing Editor, *Mandate-A Journal of Development Management*, published by ICART, Lucknow. He delivered the keynote address at the national seminar organized by School of Management Studies, Punjabi University, Patiala on 11th November 2010.

Dr. JU Ahmed delivered lecture as Resource Person in one day workshop organized by ICAFI University, Tura Meghalaya during March 2010.

Mr. Benjamin F. Lyngdoh participated in the Refresher Course on Business Studies at the Department of Management, Tura from 29th November to 19th December 2010, and attended as

Resource Person in Training cum Workshop on Development of Rural Microenterprise in South Garo Hills: Problems and Prospects, organised by Meghalaya Rural Development Society, Baghmara on 19th – 20th August, 2010 and delivered a lecture on Business Planning, Promotion and Marketing Strategies for Microenterprise.

Mr. Deepak Bhagat attended the 8th Orientation Programme (general) of UGC-Academic Staff College, NEHU, Shillong organized by the Department of Education, NEHU, Tura Campus from 29th March to 26th April 2010. He attended the Refresher

Course (Business Studies) organised by the Department of Management, NEHU, Tura Campus from 29th November 2010 to 19th December 2010. He was a resource person for the training cum workshop on Development of Rural Micro Enterprises in South Garo Hills: Problem and Prospects organized by MRDS (South Garo Hills) from 19th to 20th August 2010 and for the training of trainers regarding agribusiness development in East Garo Hills organized by MRDS (East Garo hills) on 11th September 2010.

Chapter II

SCHOOL OF EDUCATION

Dean : Prof. P.K. Gupta
Telephone : 2723590, 2723591 (o)
Email : pkgupta.nehu@gmail.com

The School of Education comprises the Department of Adult & Continuing Education, Department of Education (Shillong as well as Tura campuses), Centre for Distance Education and the Centre for Science Education. The Department of Education conducts M.A (Education) and PhD programmes both in Shillong and Tura campuses while MEd Programme is conducted in Shillong Campus only. The Department of Adult & Continuing Education, besides various kinds of training and extension activities, offers M.A, PG Diploma and PhD programmes in Adult & Continuing Education. It also conducts self-financing certificate courses in Research Methodology and Basic Computer Literacy. The Centre for Distance Education offers various courses through distance mode viz., BEd (Special Education) P.G. Diploma in Special Education, PG Diploma in Entrepreneurship, Certificate Course in Floriculture, and Foundation Course

on Education of Children with Disabilities. The Centre for Science Education mainly concentrates on research and extension activities related to popularization of science in the Northeast India.

Each department/centre has its own identified thrust areas of research. At present about 24 research scholars are working for their PhD in various departments/centres of the School. During the year under report, five research scholars received Rajiv Gandhi National Fellowship, 17 students cleared NET and four scholars were awarded PhD degree. The Department of Adult & Continuing Education organized a Refresher Course under the theme 'Life Long Learning and Life Skills Education' in the month of December 2010. As a monitoring institution the department was involved in the Project Appraisal of Sarva Shiksha Abhiyan (SSA) of the Ministry of HRD, New Delhi for the state of Meghalaya.

Department of Adult and Continuing Education

Head : Prof. E. Jyrwa
Telephone : (O)272-3323 (M) 9863096010
Email : drejyrwa@rediffmail.com

Thrust Areas

Adult and Continuing Education, Literacy Programme, Mass Media, Women Empowerment and Rural Livelihood.

Brief Statement of Academic Activities

The department focused its activities on lifelong learning and extension by disseminating knowledge to the community through training, extension and field outreach programmes.

Faculty Profile

Professor : E. Jyrwa, M.A. M.Phil, Ph.D. (NEHU)
Associate Professors : B.P. Sahu, MSW, Ph.D. (Kurukshetra)
 J. Mawthoh, M.A. Ph.D. (NEHU)
Assistant Professors : W.S. Myllemngap, M.A, M.Phil (NEHU)
 N.P. Goel, M.Sc., MPS (IIPS, Mumbai), PH.D (NEHU)
 J.I. Rapphap, MSW (Bombay U)
 E. Syngkon, M.A, Ph.D. (NEHU)

Student Intake

Enrollment Capacity

M.A.: 30

P.G Diploma in Adult and Continuing Education: 35

P.G Certificate Course in Research Methodology: Variable

Basic Computer Literacy: 15

PhD: 7

| <i>Actual admission :</i> | <i>SC</i> | <i>ST</i> | <i>OBC</i> | <i>Gen</i> | <i>Male</i> | <i>Female</i> | <i>Total</i> |
|---------------------------|-----------|-----------|------------|------------|-------------|---------------|--------------|
| M.A. | - | 29 | - | 1 | 4 | 26 | 30 |
| P.G Diploma | - | 5 | - | - | 2 | 3 | 5 |
| P.G Certificate Course | - | 3 | - | 1 | 2 | 2 | 4 |
| Basic Computer Literacy | 1 | 9 | - | - | 4 | 6 | 10 |
| Ph.D | - | 2 | 1 | 4 | 5 | 2 | 7 |

Degree Awarded:

| | <i>SC</i> | <i>ST</i> | <i>Gen</i> | <i>Male</i> | <i>Female</i> | <i>Total</i> |
|------------------------------------------------|-----------|-----------|------------|-------------|---------------|--------------|
| P.G Certificate Course in Research Methodology | - | 2 | - | 1 | 1 | 2 |
| Basic Computer Literacy | - | 5 | - | 1 | 4 | 5 |

Study Tours/Field Trips of Students

Field trip to Diengpasoh on 11th December 2010. Dr. J. Mawthoh and Mrs. W.S. Myllemngap were teachers-in-charge of the field trip.

Seminars/Conferences/Workshops/Extension Programmes

Organised

1. Refresher Course in Adult and Continuing Education under the theme "Life Long Learning and Life Skill Education" under the aegis of UGC, Academy Staff College, NEHU from 2nd to 22nd December 2010. Coordinator: Dr. B.P. Sahu.
2. Extension Programme on Resource Management Programme on Environment and Rural Livelihood from 7th to 9th March 2010 at Bethel Academy, Baghmara, South Garo Hills, Meghalaya organized by Dr. B.P. Sahu, in collaboration with Bethel Academy, Baghmara.
3. Leadership Training Programme for Women SHG members from 7th to 11th March 2011 at Bosco Reach Out Hall Nongthymmai, Shillong, organized by Ms. J.I. Raptap in collaboration with Bosco Reach Out.
4. Extension Programme on Resource Management on Conservation and Protection of Forests from 10th to 12th March 2010 at Bethel Academy, Baghmara, South Garo Hills, Meghalaya, organized by Dr. B.P. Sahu, in collaboration with Bethel Academy, Baghmara.
5. Training on NGO Management on 14th - 15th March 2011 at UNODC, Sympli Building, Shillong organized by Dr. J. Mawthoh in collaboration with Impulse NGO Network.
6. Training on Project Formulation, Management, Monitoring and Evaluation on 16th-17th March 2011 at UNODC, Sympli Building, Shillong, organized by Dr. J. Mawthoh, in collaboration with Impulse NGO Network.
7. State Level Seminar on "Legal Rights of Tribal Women in North- Eastern Region of India" on 18th March 2011 at Shillong Science Centre, NEHU, Shillong, organized by Dr. J. Mawthoh, in collaboration with NCW, Women Cell, NEHU, Shillong.
8. Training on Area and Strategies of intervention on 18th-19th March 2011 at UNODC, Sympli Building, Shillong organized by Dr. J. Mawthoh, in collaboration with Impulse NGO Network.
9. Extension Programme for Women Empowerment on Improving Quality of Life for Rural Women on 19th - 22nd March 2011 at Community Hall, Mawkyrwat, West Khasi Hills, Meghalaya organized by Dr. (Mrs) E. Syngkon in collaboration with Seng Kynthei, Mawkyrwat.
10. Three-Day workshop on Problems of School Dropouts on 21st - 23rd March 2011 at Conference Hall, Bakdil, Lower Chandmari, Tura, organized by Dr. N.P. Goel.
11. Training of CBOs and NGOs on 23rd - 25th March 2011 at MLTC Social Welfare Department, Govt. of Meghalaya, Laitumkrah, Shillong organized by Ms. J.I. Raptap in collaboration with Bosco Reach Out.
12. Three-Day workshop on Problems of Street Children on 29th - 31st March, 2011 at Punjabi Line, Bara Bazar, Shillong, organized by Dr. N.P. Goel.
13. One week vocational training programme on Beauty Care from 29th March to 2nd April 2011 at Youth Hostel, Shillong organized by Ms. W.S. Myllemngap.

Attended

Dr. B. P. Sahu presented a paper on “Teaching Methodology: Class Room Teaching, Stimulated Situations and Role Plays” at the national seminar on ‘Teaching Methodology’ organized by Jaintia Eastern College, Khliehriat on 10th June 2010. He also presented a paper on “Understanding Field Practice and Theories” at the state level seminar on ‘Revisiting Social work Education and Profession –Their relevance in the North East’ organized by Department of Social Work, St. Edmunds college on 1st November 2010 at St. Edmund College.

Funds Received

15 lakhs was received from UGC under the scheme of Lifelong Learning and Extension.

Academic/Professional Collaboration

The department collaborated with the Social Welfare Department, Govt. of Meghalaya, Women Cell, NEHU, and ASC, NEHU during the year under report. It also collaborated with agencies like Bethel Academy of Baghmara and Impulse NGO Network, Shillong.

Other Academic Activities

Dr. B.P. Sahu delivered two lectures on (i) Evolution of Cyclones and Cyclone risk scenario of India, and (ii) Case study of the Orissa Super Cyclone and the lessons learnt on 13th September 2010 for government officials at the ‘Training Programme in Hazard Specific- Cyclone Risk Mitigation and Management’ organized by Meghalaya Training Institute Shillong from 13th to 17th Sept 2010 at MATI, Shillong.

Dr. J. Mawthoh attended the sensitization programme on gender issues in education for teachers and teacher-educators of NE States on 12th August 2010 at the North East Regional Institute of Education, Shillong. He delivered

lectures on (i) Promoting gender equity through education, and Women Education and Legal Issues on the 12th and 13th August 2010 for teachers and teacher-educators of NE states at North East Regional Institute of Education, Shillong, (ii) Importance of Feedback from other SHG Members on 9th March 2011 for Women SHG Leaders and members of East Khasi Hills District at Bosco Reach Out, Shillong, (iii) Rights of women in a matrilineal society on 22nd March 2011 for community people and students at Sngap Syiem College, Mawkyrwat, and (v) Role of NGOs in assessing community needs for successful implementation of programmes & NGO Approach to Solving Community Problems on 25th March 2011 for CBOs and NGO members of Shillong town at Social Welfare, New Colony, Shillong.

Mrs. W.S. Myllemngap delivered lectures on (i) Equal Rights, Equal Opportunities - Progress for all on 8th March, 2010 for Members of Self Help Groups, CBOs and Community Members at Jatah, Lakadong, Mawkyrnrew Block, (ii) Early Pregnancy and Family Life Education on 13th October 2010 for students and community members at Mawlynrei, (iii) Literacy and Sustainable Development on 11th December 2010 for teachers and community members at Nongumlong village, Umlyngka.

Dr. N.P. Goel delivered a series of lectures on Computer Application and Research Methodology and practical on SPSS from 1st to 10th March 2010 to the participants of workshop on Capacity Building in Social Science organized by ICSSR at North Eastern Regional Centre, Shillong.

Ms. J.I. Rapphap delivered lecture on (i) Trauma Counselling on 4th October 2010 for government officials at Meghalaya Administrative Training Institute, Shilong.

Department of Education

Name of the Head : Prof. S.M. Sungoh
Telephone : 2723340 (Head), 2723347(O),
Email : hodedu@nehu.ac.in

Thrust Areas

The thrust areas of the department are system of education in the North East, correlates of achievement, test construction and standardization, environmental education, and mental health.

Brief Statement of Academic Activities

The department admitted 48 Students in the M.A. programme and 21 in the M.Ed programme

during the year. 16 students passed NET (Lectureship) in 2010 and 1 student cleared JRF. All the teachers of the department actively participated in various activities like attending seminars, conferences and workshops. The department was the monitoring institution for Sarva Shiksha Abhiyan (SSA) of the Ministry of Human Resource Development, (MHRD), Govt. of India, for the State of Meghalaya during the year 2010-11.

Faculty Profile

Professors : P. K. Gupta, M.Sc (Agra U), M.Ed (Delhi U), M.Phil/Ph.D (Merrut U)
A. Henia, M.A, (Gauhati U); M.Phil/ Ph.D (JNU)
S. M. Sungoh, M.A; M.Phil; Ph.D (NEHU)

Associate Professors : C. Nongbri, M.A; M.Ed; Ph.D. (NEHU)

Assistant Professors : Ibadani Syiemlieh, MA; Ph.D (NEHU)
B. Bazeley Rymbai, MA; Ph.D (NEHU)
Yodida Bhutia, MA, M.Ed ; Ph.D (NEHU)

Student Intake

| | | | | | | |
|------------------------|----|----|-----|------|--------|-------|
| M.A | | | | | | |
| Enrolment Capacity: 48 | | | | | | |
| Actual admission | SC | ST | GEN | Male | Female | Total |
| | - | 46 | 2 | 5 | 43 | 48 |
| M.Ed | | | | | | |
| Enrolment Capacity: 21 | | | | | | |
| Actual Admission | SC | ST | GEN | Male | Female | Total |
| | - | 20 | 1 | 3 | 18 | 21 |
| Ph.D | | | | | | |
| | SC | ST | GEN | Male | Female | Total |
| | - | 6 | 4 | - | 10 | 10 |

School of Education

Degrees Awarded

| | | | | | | |
|--------|----|----|-----|------|--------|-------|
| Course | SC | ST | GEN | Male | Female | Total |
| MA | - | 42 | 1 | 3 | 40 | 43 |
| Course | SC | ST | GEN | Male | Female | Total |
| M.Ed | - | 19 | 2 | 7 | 14 | 21 |
| Course | SC | ST | GEN | Male | Female | Total |
| Ph.D | - | 4 | - | 1 | 3 | 4 |

| Name | Topic of Research | Supervisor |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Ms Ibadani S. Syiem: | “Emotional Intelligence and its Relationship to Selected Personality Characteristics of Secondary School Students of Meghalaya “ | Prof. S.M. Sungoh |
| Mr. Jangkholum Mate | “A Study of Higher Education in Manipur” | Prof. A. Henia |
| Ms. Winnie Joice Shylla | “Construction and Standardization of a Verbal Group Test of Intelligence in the Khasi Language for School Going Children” | Prof. P.K. Gupta |
| Ms. Evangelyne Syiem | “Analytical Study on the Functioning of the Schools Catering to Early Childhood Education in Greater Shillong” | Prof. S.M. Sungoh |

Courses Conducted

MA

Semester I: Philosophy of Education, Psychology of Education, Educational Management and Change, Research Methodology in Education (I&II), Semester II: Curriculum Development and Instruction, Sociology of Education, Educational Testing & Evaluation, Environmental Education and Mental Health Education, Semester III: Educational Technology, Comparative Education, Early Childhood Education, Teacher Education, Special Education, Semester IV: Laboratory Practical, Higher Education in India, Guidance and Counseling, Methods of Teaching at Tertiary Level, Economics of Education.

M.Ed

Semester I: Foundations of Education; Educational Psychology; Research Method- (I &II) and System of Teacher, Education in India, Semester II: Theory and Practice of Teaching; Educational Testing; Dissertation, Educational Planning and Finance; Mental Health Education.

Ph.D

Research Methodology, Data Analysis & Computer Applications and Review of Related Literature.

Seminars/Conferences/Symposium/Extension programmes

Attended

Prof. P.K. Gupta delivered a lecture on Research Methodology in a ‘Research Workshop

'organized by Rapsbun School of Nursing C/O Nazareth Hospital, Laitumkhrah, Shillong on 25th August 2010. He delivered two lectures on the topics (i) Understanding Qualitative & Quantitative Research and (ii) Experimental Inquiry in Social science Research at a workshop on 'Research Methodology in Social Science' organized by ICSSR-NE Regional Centre at IGNOU, Agartala on 10th September 2010. Delivered keynote address at the inaugural function of the UGC sponsored national seminar on 'Quality Assurance in Higher Education-Role of Stake Holders' organized by Goreshwar College, Goreshwar, Assam on 23rd Nov 2010. As a resource person he delivered a lecture on the topic "Grading & Credit System" at the UGC sponsored workshop on 'Examination Reforms' organized by IQAC, Lady Keane's College, Shillong on 7th December 2010. Delivered a lecture on "Understanding Qualitative and Quantitative Research" at the Training Course on Research Methodology in Social Science organized by ICSSR-NERC, Shillong on 16th December 2010.

Prof. A. Henia presented a paper entitled "Higher Education towards Modernization of India" at the 34th Indian Social Science Congress, organised by Gauhati University in association with the Indian Academy of Social Sciences, Allahabad, and held at Gauhati University on 27th - 31st December 2010.

Prof. (Mrs) S.M. Sungoh attended an international seminar on 'Indian Education: The Positive Turmoil' organized by the Educational Technology and Management Academy, New Delhi on 7th -9th February 2011 and presented a paper entitled "The Emerging Trends in Teacher Education". She also presented the keynote address at the state level seminar on 'Legal Rights of Women' organized by the National Commission for Women in collaboration with

Adult and Continuing Education and Women's Cell, NEHU at the Science Centre, NEHU, Shillong on 18th March 2011.

Dr. C. Nongbri attended the UGC sponsored national seminar on Population Explosion and Development in India with special Reference to NE region at Doomsdooma College, Tinsukia, Assam on 27-28th August 2010 and presented a paper titled "Women in Meghalaya: Their Reproductive Health and Right." Attended the Education Conference 2010 of the All India Association for Educational Research at Lovely Professional University, Jalandhar, Punjab on 12-13th November 2010 and presented a paper titled "Teachers' Professional Development in Meghalaya: The Management Concern". Presented a paper on "Professional Development of Teachers in Meghalaya in the context of RTE: The Challenge" at the national seminar on 'Right To Education Act 2009: Its Prospects and Challenges' on 7th - 9th March 2011 organised by NERIE - NCERT, Shillong. Participated in one day State Level seminar on 'Legal Rights of Tribal Women in North East' on 18th March 2011 organised by the Department of Adult and Continuing Education, NEHU, Shillong in collaboration with the Women's Cell, NEHU Shillong and presented a paper on "Women in Meghalaya and their Reproductive Health and Right".

Dr. I. Syiem presented a paper on "Vocational Training in Industrial Training Institutes, Industrial Training Centre (ITIs/ITCs) of Meghalaya" at the national seminar organized by Union Christian College, Umiam Khwan (Barapani) held on 16th -18th September 2010. She also presented a paper on "Value of Emotional Intelligence in Library Management" at the national seminar organized by Department of Library and Information Science, NEHU, Shillong held on 21st to 23rd October 2010.

Dr. Brinda Bazeley Rymbai presented a paper titled "Global Economic Melt Down - Its Effects On Higher Education" at the national symposium on 'Great Depression of 1930's and Present Global Economic Meltdown: Identifying the Commonalities and Lessons thereof' on 25th - 26th of June 2010, organized by -Shillong College and Shillong College Academic Society. Contributed a paper titled "Quality, Improvement and Sustenance in Rural Colleges - NAAC Perspective" at the national seminar on 'Development of Rural Colleges in the NAAC Perspective' organized by UCC, Barapani on 16th- 18th of September 2010. Presented a paper titled "Communication Skills and Information for Personality Development In Library Profession" at the national seminar on 'Personality Development in the Library Profession' organized by the Department of Library and Information Science NEHU, Shillong on 21st-23rd October 2010. Presented a paper on "Internalization Of Indian Higher Education" at the research committee of XXXIV Indian Social Science Congress held on 27th- 31st of December 2010 at Gauhati University. Presented a paper titled "Prospects of Environmental education in the schools of Meghalaya" at the national seminar on 'Problems and Prospects of Environmental Education in the Schools of North East India', organized by North East Regional Institute of Education and held at NERIE Shillong on 7th-9th of February 2011. Presented a paper titled "Right to Education Act and Quality Education" at the national seminar on 'Right to Education Act: Its Prospects and Challenges' organized by North East Regional Institute of Education at NERIE, Shillong on 7th- 9th of March 2011. Presented a paper titled "Women in Khasi society" at the State Level seminar on 'Legal Rights of Tribal Women In The North Eastern Region' organized by the

Department of Adult and Continuing Education, NEHU in collaboration with Women Cell, NEHU on 18th of March 2011 held at the Shillong Science Centre, NEHU campus.

Dr. Yodida Bhutia attended the UGC sponsored national seminar at Doomdooma College, Tinsukia, Assam on 27-28th August 2010 and presented a paper titled "Family Life Education: Better life and Progressive Population". Attended the national seminar on 'Personality Development in the Library Profession' organised by Department of Library and Information Science, NEHU, Shillong on 21st- 23rd October 2010, and presented a paper titled "Personality Development through Motivation in instruction". Attended the World Conference EduCon 2010 at Lovely Professional University, Jalandhar, Punjab on 12-13th November 2010 and presented a paper titled "Professional Development of teachers of secondary schools of Sikkim State". Participated in one day State Level seminar on 'Legal Rights of Tribal Women in North East' and presented a paper on "Rights of Bhutia Lepcha Women of Sikkim" organized NCW in collaboration with the Department of Adult and Continuing Education and Women's Cell, NEHU on 18th March 2011.

Publications

Published in India

Bhutia, Y. 2010, "Institutional Assessment of Colleges of Sikkim" *Proceedings of North East India Education Society*, Shillong: North-East Education Society. pp. 147-51.

Bhutia, Y. 2010, "Personality Development through Motivation in Instruction" *Proceedings of the National Seminar on Personality Dev. in the Library Profession*, Shillong, Department of Library and Information Science, NEHU, Shillong pp. 271-77.

Bhutia, Y. 2010, "Present Status of Girl's Education in the State of Sikkim" *Journal of the North East India Education Society*, Vol. 13 pp. 87-93.

Bhutia, Y. 2010, "The Study of Professional Development of Teachers of Government Secondary Schools" *Proceedings of World Conference of Education*, Lovely Professional University, Punjab, pp. 814-821.

Gupta, P.K. 2010. "Challenges of Higher Education with special Reference to the North-East" *Proceedings of North East India Education Society*, Shillong: North-East Education Society, 2010: xi to xxii.

Henia, A. 2010. "Library Professionals and their Personality Development", in *Proceedings of the National Seminar on Personality Dev. in the Library Profession*, Shillong, Department of Library and Information Science, NEHU, Shillong, pp.64-70.

Nongbri, C. 2010. "Management of Higher Education Institutions in Meghalaya: Issues and Concerns" *Proceedings of North East India Education Society*, Shillong: North-East Education Society, pp. 183-195.

Nongbri, C. 2010. "Management Structure for implementation of SSA Programme in Meghalaya", *Journal of the North East India Education Society*, Vol. 13, pp. 126-134.

Rymbai, B.B. 2010, "Quality Assessment in Higher Education" *Proceedings of North East India Education Society*, Shillong: North-East Education Society, pp. 17-24.

Rymbai, B.B. 2010. "Communication skills and Information for Personality Dev. in Library Profession" *Proceedings of the National Seminar*, Shillong: Department of Library and Information Science, NEHU, pp. 180-90.

Rymbai, B.B. 2010. "Internalization of Indian Higher Education" in the *Proceedings of the*

34th Indian Academy of Social Sciences, Allahabad: N.P. Chaubey, Indian Academy of Social Science, pp. 238-39 Vol. 14.

Rymbai, B.B. 2010. "Role of Teacher in higher education" in *Teacher Education Challenges and Expectation*. New Delhi: Edited by Dr. R. Pandey and Pooja Tyagi, Omega Publishers Chapter 13, pp. 146-50.

Rymbai, B.B. 2010, "Need for guidance and counseling in Higher Education" *Journal of the North East India Education Society*, Vol. 13 pp. 14-17.

Sungoh, S.M. 2010. "Personality Dimensions of Higher Secondary Students in Shillong, Meghalaya" *Journal of the North East India Education Society*, Vol. 13, pp. 103-18.

Syiem, I.S. 2010. "Emotional Intelligence and why it matters in Higher Education" *Journal of the North East India Education Society*, Vol. 13 pp. 122-25.

Syiem, I.S. 2010. "Value of Emotional Intelligence in Library Management" *Proceedings of the National Seminar on Personality Dev. In the Library Profession*, Shillong, Department of Library and Information Science, NEHU, Shillong pp. 304-11.

Funds Received

Rs. 3.30 lakhs from MHRD, New Delhi for monitoring work of SSA for the State of Meghalaya.

Other Academic Activities

Prof P.K. Gupta

1. Delivered two lectures on Methods of Inquiry: Logical and Scientific at the UGC sponsored Orientation Programme organized by Academic Staff College, Gauhati University, Guwahati.
2. Delivered four lectures at the 83rd and 84th Orientation Programme organized by

School of Education

Academic Staff College, Gauhati University, Guwahati on (i) Logical Method of Inquiry (ii) Scientific Method of Inquiry on 1 and 2nd June 2010.

3. Delivered two lectures on (i) Experimental Methods of Research, and (ii) Analysis of Experimental Data in the XV Refresher Course in Education organized by UGC Academic Staff College, Gauhati University, Guwahati on 15th December 2010.

Prof. S.M. Sungoh

1. Acted as a resource person at the workshop on 'Role of NGOs in School Education at Elementary Level, Insights from North-East India' organized by the North-East Regional Institute of Education NCERT, Shillong, on 4th -5th October 2010.
2. Acted as a resource person for a 2-day workshop on 'Development of Tools for Research Studies' organized by the State Education Mission Authority of Meghalaya, Shillong on 29th and 30th September 2010.

Dr. C. Nongbri

1. Acted as resource person at the 'Training of KRPs of NE States in Examination Reforms with reference to Evaluation Techniques and Question paper setting for Social Science at Secondary level', organized by the North East Regional Institute of Education, NCERT, Shillong from 18th to 22nd October 2010 at NERIE, Shillong.
2. Acted as a resource person for the Counseling of MA Course in Education organized by Regional Centre, IGNOU,

Shillong on 16th May 2010.

3. Acted as a resource person for a 2 day workshop on 'Development of Tools for Research Studies' organized by the State Education Mission Authority of Meghalaya, Shillong on 29th and 30th September 2010.
4. Was a consultant for Research Studies of DIET Faculty members of DIET Nongstoin, West Khasi Hills and DIET Baghmara, South Garo Hills from April 2010 to March 2011.

Dr. B.B. Rymbai

1. Was Academic Counselor, CTE, PGT (1866P) M.A. Education at Indira Gandhi National Open University – Shillong Regional Centre.
2. Delivered lectures at IGNOU, Shillong for M.A Education from 15th to 30th of May 2010.
3. Her paper titled "Global Economic Melt Down – Its Effects on Higher Education" was awarded the best paper at the national symposium on 'Great Depression of 19930's and Present Global Economic Meltdown – Identifying the Commonalities and Lessons Thereof' on 2^{5th} – 2^{6th} June 2010 organized by Shillong College and Shillong College Academic Society.

Dr. Y. Bhutia

1. Was a resource person at the workshop at the Regional Centre, Itanagar, IGNOU, on 'Ethics of Research, Research Problem, Hypothesis, Report Writing and Bibliography & Concept Attainment Model', on 22-23 July 2010.

Department of Education
[Tura]

Head : Dr. B. C. Das
Telephone : 03651 – 220258 (O)
Email : dasbishnucharan@gmail.com

Thrust Areas

Value and Peace Education, Teacher Education, Methods of Teaching at Tertiary Level, Special Education, and Elementary Education are the thrust areas of the department.

Brief Statement of Academic Activities

Besides regular teaching and research work, the department conducted course seminars in which students presented papers on various topics. The department also engaged in research projects funded by the UGC and ICSSR, New Delhi.

Faculty Profile

Associate Professor : Dr. Bishnu Charan Das, M.A. (Utkal U), M.Phil.(DAV), Ph.D.(BHU)
Assistant Professors : Dr. (Mrs.) Nikme S. C. Momin, M.A & Ph.D. (NEHU)
Dr. S.C. Subudhi, M.A., M.Phil. & Ph.D. (Kurukshetra U)
Dr. Madhusudan J.V., M.Ed., M.Phil & Ph.D. (Gulbarga U)

Students Intake

| Enrolment Capacity: | MA: 30 | | | PhD: Variable | | | |
|---------------------|--------|----|----|---------------|------|--------|-------|
| Actual Admission: | OBC | SC | ST | Gen | Male | Female | Total |
| M.A. | 3 | - | 27 | - | 5 | 25 | 30 |
| Ph.D | - | - | 2 | - | - | 2 | 2 |

Degrees Awarded

| MA | OBC | SC | ST | Gen | Male | Female | Total |
|----|-----|----|----|-----|------|--------|-------|
| | 1 | 2 | 22 | - | 5 | 20 | 25 |

Courses Conducted

MA

Semester I: Philosophy of Education, Psychology of Education, Educational Management and Change, and Research Methodology in Education (I & II). Semester II: Curriculum Development and Instruction, Sociology of Education, Educational Testing & Evaluation, Environmental Education and Mental Health Education. Semester III: Educational Technology, Comparative Education, Early Childhood Education, Teacher Education, Education for the Gifted & the

Creative and Special Education. Semester IV: Laboratory Practical, Higher Education in India, Guidance and Counseling, Education for the Physically and the Cognitively Challenged, Methods of Teaching at Tertiary Level and Economic of Education.

PhD

Research Methodology, Data Analysis and Computer Application, Review of Related Literature.

Study Tours/Field Trips of Students

Dr. Madhusudan J. V. took the students to Gangtok and Darjeeling for a week.

Seminar/Conferences/Workshop/Extension Programmes

Organised

Dr. B. C. Das was Joint Coordinator of the training programme on Research Methodology for Non-Ph.D. College and University Teachers and Research Scholars from 8th to 13th November 2010, Department of Education, NEHU, Tura Campus, Tura.

Dr. S. C. Subudhi was Coordinator of the training programme on Research Methodology for Non-Ph.D. College and University teachers and Research Scholars from 8th to 13th November 2010, Department of Education, NEHU, Tura Campus, Tura.

Dr. Nikme S. C. Momin coordinated the 4 week 8th Orientation Programme of the UGC-ASC, NEHU, Shillong from 29th March to 26th April 2010 at Department of Education, NEHU, Tura Campus, Tura.

Attended

Dr. Madhusudan, J.V.

1. "Scenario and Challenges in Universalisation of Secondary Education in Rural Areas of North-East India", paper presented at the national seminar on 'Universalisation of Secondary Education: Issues, Challenges and Policy Perspectives in Rural Context', held at NCERT New Delhi on 30-31 March 2011.
2. "Role of Teachers Attitudes and Socio-Political Concerns in India", paper presented at the national seminar on 'Role of Teachers in Promoting Communal Harmony and National Integration' held on 29-30 November 2010 at Punjabi University, Patiala.
3. "Educational Attainment by Socio-Religious Communities in India: Evidences

from NFHS and some Implications", paper presented at the First Asian Population Association Conference, Vigyan Bhawan, New Delhi on 16-20 November 2010.

4. "Educational Attainment by Socio-Religious Communities in India: Evidences from NFHS", paper presented at the Annual Conference of Comparative Education Society of India (CESI) on 'Globalization, Educational Change and Reforms: Comparative Perspectives' at JNU, New Delhi, on 16-20 November 2010.
5. "Trends in Schooling among Muslims and Hindus in India", paper presented at the first Social Scientist Meet of ICSSR-NERC at Shillong held on 9-10 March 2010.

Dr. Nikme S. C. Momin

1. Presented a paper entitled "Are Garo Boys and Girls Underachievers?" at the seminar on 'Status of A'chik Women' organized by the Department of Garo, NEHU, Tura in collaboration with Literature Society on 10th -11th September 2010 at the District Auditorium, Tura West Garo Hills, Meghalaya.
2. Attended the workshop on 'Problems of School Drop-out' organized by the Department of Adult and Continuing Education, NEHU, Shillong, and held at Bakdil, Tura West Garo Hills District, Meghalaya on 21st -23rd March 2011. A paper entitled "Advocating Quality Early Childhood Education to Downsize School Drop-Out in Garo Hills of Meghalaya" was presented for discussion.
3. Presented a paper entitled "Feeble Guidance and Counseling Component in Rural Meghalaya: A Question for Quality improvement in Universalisation of Secondary Education?" at the Golden

Jubilee national seminar on 'Universalisation of Secondary Education: Issues, Challenges and Policy Perspectives in Rural Context' (30th -31st March 2011) organized by NECERT, New Delhi.

Publications

Published in India

Das, B. C. (2010) "Teaching School Students through Distance Mode: Some Reflections, *Journal of Indian Education*, NCERT, Vol. XXXVI, No.2, New Delhi, 66-77.

Das, B. C. (2010) "What Resists Secondary Teacher Education Institutions from being Innovative. *Edutracks*, Vol.10, No.6, 3-8.

Das, B. C. (2010) "Facilitative Factors in the spread of Innovations in Teacher Education Institutions. *Vetri Education*, Vol.6, No.1, Poduchhery, 5-11.

Madhusudan, J. V., Kh. Jitenkumar Singh and Jeetendra Yadav (2010) "Study of Trends and Determinants of Educational Attainment in Major States in India", *Journal of Human Development*, 2:(2),177-92.

Madhusudan J. V. and Sharanbasvraj Patil (2010) "Social Exclusion and Scenario of Schooling at Primary Stage in India" *Developmental Perspectives: Issues, Challenges, Interventions* (Ed) S.K. Kollolikar & G.B. Sonar, Current Publication, Agra.

Madhusudan J. V., Kh. Jitenkumar Singh and Jeetendra Yadav (2011) "Inequalities in School Participation at Primary Stage among Muslims and Hindus in India: Evidences from NFHS III" in *Human Rights and Social Security: Perspectives, Issues, Challenges* (Ed) Anisur Rehman, Manak Publications Pvt. Ltd, New Delhi.

Momin, Nikme S. C. (2010) "Challenges for Sustainable Development in Nokrek Biosphere

Reserve of Meghalaya: Role of Environmental Education, *Indian Journal of Environmental Education* (CPREEC), Chennai Vol. 10, April, 201, pp.21-26.

Momin, Nikme S. C. (2010) Momin "Discovering Factors Responsible for Illiteracy in Meghalaya: A Status of Adult Education in Garo Hills" *Journal of North-East India Education Society* (NEIES), Shillong, Vol. 13 of 2008-2009, 46-62.

Funds Received

For Research Methodology Workshop ICSSR gave Rs. 1 lakh and NEC Rs. 60 thousand.

Research Project

Completed

S. C. Subudhi completed the project titled "Training Needs and Modification of Special School Teachers in Meghalaya" funded by ICSSR.

Ongoing

1. A Critical Evaluation of Teaching-learning Process adopted for Management of Refresher Courses in Academic Staff Colleges in India. Principal Investigator: Dr. B. C. Das, Sponsored by UGC, New Delhi.
2. A Study of the Organization of Secondary Teacher Education Programmes in the North-Eastern States of India. Principal Investigator: Dr. B. C. Das, Sponsored by ICSSR, New Delhi.

New

Nikme S. C. Momin is running a 2 year UGC Major Research Project from 1.2.2011 to 31.01.2013 with an approved financial assistance of Rs. 4,43,700.00. The project is entitled as "Teachers' Personal Values and Teaching Competency as an Agenda towards Quality in Secondary Education of Garo Hills region of Meghalaya". She is also running a project

School of Education

funded by ICSSR, New Delhi (Rs.2,90,250.00) and entitled “Maladjusted Adolescent of Meghalaya and the Need for Guidance and Counseling Services: A Cross-cultural Analysis”.

Dr. J. V. Madhusudan has been granted fund for a project titled “Scenario and determinants of school attendance: A household and school level study in West Garo Hills District of Meghalaya”. Rs.50,000 from ICSSR-NERC under first Post-Doctoral Initiation Programme.

Other Academic Activities

Nikme S. C. Momin was invited as resource person in the training programme entitled ‘Institutional Planning and Management’ organized by District Institute of Education and Training (DIET), Tura, Meghalaya for the Head Teachers of Lower Primary Schools under Dalu and Gambegre blocks of West Garo Hills District

of Meghalaya on 6th – 10th September 2010. She spoke on “Participatory Rural Appraisal (RPA)” on 18th January 2011 at the Community Awareness Programme conducted by District Institute of Education and Training (DIET), Tura Meghalaya from 17th January to 21st January, 2011 at Salmanpara Village of Zikzak Block of West Garo Hills, District of Meghalaya. She spoke on “The Value of School in the Community” on 19th January 2011 at the Community Awareness Programme conducted by the District Institute of Education and Training (DIET), Tura Meghalaya from 17th to 21st January 2011 at Salmanpara Village of Zikzak Block of West Garo Hills District of Meghalaya. She gave a series of 6 lectures for “A Seminar on Psychology for BD students” held on 4th - 16th February 2011 organised by the Harding Theological College (HTC), Mission Compound, Tura, Meghalaya.

Centre for Distance Education

Name of the Head : Dr. S.N. Sarma
Telephone : 0364-2226822/2228705
Email : Surendranath2@gmail.com

Thrust Area

The Centre for Distance Education (CDE) has been selected as the only nodal agency of the Rehabilitation Council of India (RCI), New Delhi to spread the teaching learning on disability areas in the entire Northeastern region of India through the distance mode. A fresh Memorandum of Understanding (MOU) has been signed on 1st December 2010 after the expiry of the last MOU between NEHU and the RCI. The Centre for Distance Education started with Floriculture course a decade ago and the same is the most sought after programme in the region.

In the disability areas, the Centre started B.Ed. Special Education in 2007. The number of students enrolled in the course is many but few appeared in the examination. The Foundation Course on Education of Children with Disabilities (FC-SEDE) started from September 2009. The Post-Graduate Professional Diploma in Special Education (PGPD-SEDE) was launched in March 2010. The last mentioned programme through the distance mode was started in eight RCI approved study centres in the Northeast India. In addition, the Centre has Post Graduate Diploma in Entrepreneurship (PGDE) course going on smoothly. For

NEHU Annual Report 2010-2011

Floriculture courses the Centre organizes field trip for students every year to provide them hands on training in different parts of Meghalaya. The programme coordinators and counselors have been exposed to new techniques of distance mode of education through orientation programmes.

Brief statement of academic activities

The following courses were offered during the year under report:

1. 6 months' Certificate Course in Floriculture

2. 3 months' General Course in Floriculture
3. 1 year Post Graduate Diploma Course in Entrepreneurship
4. 2 years B.Ed.- Special Education (B.Ed.-SEDE)
5. 3 months' Foundation Course on Education of Children with Disabilities (FC-SEDE)
6. 1 year Post Graduate Professional Diploma in Special Education (PGPD-SEDE)

Faculty Profile

Associate Professors:

| | | | |
|-------------|------|---------------------------|------------|
| S. N. Sarma | MA | Ph.D (Gauhati University) | Education |
| S. Wangu | M.Sc | Ph.D (Kashmir University) | Botany |
| R.N. Rai | M.A | Ph.D | Psychology |

Assistant Professor:

| | | | |
|------------|-----|--------------------------|------------|
| R.C.Pandey | M.A | Ph.D (Kumaon University) | Psychology |
|------------|-----|--------------------------|------------|

Student Intake

Enrolment capacity: No limit

Actually Enrolled

| Actual Admission | SC | ST | Gen | Male | Female | Total | |
|------------------------------------------------------------------------|----|-----|-----|------|--------|-------|--|
| B.Ed.-SEDE | 6 | 43 | 35 | 32 | 52 | 84 | |
| Post Graduate Diploma in Entrepreneurship | 1 | 7 | 0 | 4 | 4 | 8 | |
| Certificate Course in Floriculture | 0 | 15 | 3 | 6 | 12 | 18 | |
| Foundation Course on Education of Children with Disabilities (FC-SEDE) | 6 | 137 | 82 | 121 | 104 | 225 | |
| Post Graduate Professional Diploma in Special Education (PGPD-SEDE) | 1 | 5 | 13 | 10 | 10 | 20 | |

Degrees Awarded

| | SC | ST | Gen | OBC | Male | Female | Total |
|-------------------------------------------|----|----|-----|-----|------|--------|-------|
| B.Ed.-SEDE 1 st Year | 1 | 6 | 4 | 1 | 5 | 7 | 12 |
| B.Ed.-SEDE 2 nd Year | 0 | 12 | 5 | 0 | 5 | 12 | 17 |
| Certificate Course in Floriculture (July) | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| General Course in Floriculture (July) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

School of Education

| | | | | | | | |
|-----------------------------------------------------------------------------|---|---|----|---|----|---|----|
| General Course in Floriculture (December) | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Foundation Course on Special Education of Children with Disabilities (July) | 2 | 3 | 15 | 4 | 16 | 8 | 24 |

Field Trip of Students

1. Dr. J. K. Durong and Mr. Amrit Bhuyan took the Floriculture distance learners on 14th May 2010 to Floriculture Model Farm Bio-Control Laboratory and Farmer's Nursery in Upper Shillong for studying different types of orchids etc. They took the same learners on 1st June 2010 to Anthurium Nursery in Byrnihat for preparing the poly house for Anthurium, and to Bhulaganj and Shella on 2nd June 2010 for the same purpose.

Publication

Published in India

Pandey, R.C. and Rai, R.N. "Gender differences in creativity among Indian and Nepali students in Aizawl," *Journal of North-East India Council for Social Science Research*, Vol. 34:1, 2010, pp.93-96.

Other Academic Activities

Dr. S.N. Sarma delivered lectures as Guest Faculty on "Education Technology and Communication" from July 2010 to March 2011 at BSc Nursing College, NEIGRIGMS, Shillong.

Dr. R.N. Rai delivered lecture on "Stress and coping strategies" from 8th to 13th November 2010 for JCO's and PBOR from Non AMC Unit as Psychological Counsellor organized by Military Hospital, Shillong. He delivered lectures as Guest Faculty on the topics of psychology from July 2010 to February 2011 for 1st year BSc Nursing students in the College of Nursing, NEIGRIHMS, Shillong.

Dr. R.C. Pandey attended the Refresher Course in Psychology organized by the Academic Staff College, Jai Nain Vyas University, Jodhpur w.e.f 15.11.2010 to 5.12.2010.

Centre for Science Education

Name of the Head : Prof. Man Mohan Singh
Telephone : 2550449 (o)
Email : profinmscse@yahoo.co.in

Thrust Area

The thrust areas of the Centre for Science

Education are science education, scientific awareness, and scientific attitude.

Faculty Profile

Professors : Prof. Man Mohan Singh
Prof. M. S. Bisht, MSc (Jodhpur U, PhD (Delhi U)
Prof. D. Bhattacharjee, MSc (NEHU), PhD (Warsaw)
Associate Professor : Dr. D. K. Patra, MSc (Sambalpur U), PhD (NEHU)

Publication

Published Abroad

Nirmala Chongtham, Bisht, M. S. and Sheena Haorongbam (2011) Nutritional properties of bamboo shoots: potential and prospects for utilization as a health food. *Comprehensive Reviews in Food Science and Safety*, Vol. 10, pp. 153-69.

Patra, D. K. and S. Kumar (2010) Upper bound on the load on a cantilevered thick multiwalled carbon nanotube. *American Institute of Physics Conf. Proc.*, vol. 1276, No. 1, pp. 401-06.

Projects

Prof. M. S. Bisht is the PI and CoPI of the following two projects, respectively:

1. Novel plant genotypes for predicted climate change, funded by UGC (Rs.6,66,800).

2. Exploration and germplasm collection of citrus from the Northeast India and characterization of genetic variability using cellular and molecular cytogenetical approaches, funded by UGC (Rs.11,01,000). The PI of this project is Prof. S. R. Rao of the Department of Biotechnology and Bioinformatics, NEHU.

Other Academic Activities

Prof. M. S. Bisht delivered a lecture titled "Processing and packaging of bamboo shoots and other neglected crops of North-East India: Prospects for prosperity and food security" at the workshop on Packaging of bamboo shoots and other ethnic foods for cottage, micro, small and medium entrepreneurs, held at Pinewood Hotel, Shillong on February 24, 2011.

Chapter III

SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Dean : Prof. B.S. Mipun
Telephone : 272 3221 (o) Fax: 2550040
Email : bsmipun@hotmail.com

The School of Human and Environmental Sciences comprises four departments, namely, Anthropology, Environmental Studies, Geography and Rural Development and Agricultural Production. There are 34 faculty members in the School. They were actively engaged in research and teaching programmes during the year under report. Several faculty

members have collaborative research programmes with prestigious national and international research institutes. Faculty members also carried out a number of externally funded research projects. Many research publications by faculty members were published in national and international journals.

Department of Anthropology

Head : Professor T. B. Subba
Telephone : (0364) 2723101/2726106/2551717
Email : tbsubba@nehu.ac.in

Thrust Area

Biological and cultural diversity of the people of Northeast India.

Brief Statement of Academic Activities

The Department admitted 32 students for M.A./M.Sc. programmes and 14 students for Ph.D. Programme during the current year. Twenty six (26) students successfully completed their M.A./M.Sc. Six students were awarded Ph.D. degree and six students passed the UGC NET Examinations. The faculty remained active in

publication of their research findings in book chapters and nationally and internationally refereed journals. The department organized the XV Dr. Verrier Elwin Endowment Lectures on 29-30 March 2011. The lectures were delivered by Prof. A.N.M. Irshad Ali of Gauhati University, Assam. The project entitled "Culture, Genetics and Status of Health in Northeast India" under Area Studies of the University with Potential for Excellence (UPE) Scheme of the University Grants Commission is ongoing.

NEHU Annual Report 2010-2011

Faculty Profile

| | | |
|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Professors | : | T. B. Subba, MA, Ph.D. (NBU) H. Lamin, MA, Ph.D. (NEHU) R. Khongsdier, MSc, Ph.D. (NEHU) |
| Associate Professors | : | L. Zehol, MA, Ph.D. (NEHU) D. K. Limbu, MSc, Ph.D. (NEHU) |
| Readers | : | B. Langstieh, MSc, Ph.D. (ISI, Cal. U) G. Ranjan, MA, Ph.D. (Lucknow U) |
| Assistant Professors | : | Valentina Pakyntein, MA (NEHU), M.Phil. (Delhi U) J. W. Dkhar, MSc, Ph.D. (NEHU) Q. Marak, M.A. (Gauhati U), PhD (NEHU) Sudipta Ghosh, MSc., Ph.D. (Delhi U) |

Student Intake

Enrolment capacity: M.A./M.Sc. - 32; Ph.D. – variable.

| Actual Admission: | SC | ST | Gen | Male | Female | From Meghalaya | Outside Meghalaya |
|-------------------|----|----|-----|------|--------|-------------------|----------------------|
| M.A./M.Sc. | - | 27 | 1 | 10 | 18 | 16 | 12 |
| Ph.D. | - | 12 | 2 | 7 | 7 | 5 | 9 |
| Degrees Awarded | SC | ST | Gen | Male | Female | Total | |
| M.A./M.Sc. | | 23 | 3 | 8 | 18 | 26 | |
| Ph.D | | 5 | - | 1 | 4 | 5 | |

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Ms. Queenbala Marak, “Food, Identity and Difference: An Anthropological Study of the Garos”, awarded by NEHU in September 2010. Supervisor: Prof. T. B. Subba. 2. Ms. Valerie Dkhar, “Natural Resources Management: An Anthropological Study in Two Villages of Meghalaya”, awarded by NEHU in September 2010. Supervisor: Prof. T. B. Subba. 3. Mr. Immanuel Zarzosang Varte, “Impact of Development on the Hmars of Tipaimukh in Churachandpur District, Manipur”, awarded by NEHU in May 2011 Supervisor: Dr. L. Zehol. | <ol style="list-style-type: none"> 4. Ilyn Gangte, “A Biosocial and demographic Study among the Gangtes of Churachandpur district”, awarded by NEHU in April 2010. Supervisor: R. Khongsdier. 5. B.C. Warjri, “Study of growth and Nutritional Status of Khasi Children of West Khasi Hills District, Meghalaya”, awarded by NEHU in September 2010. Supervisor: R. Khongsdier. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Courses Conducted

M.A./M.Sc.

Semester I: Palaeoanthropology, Archaeological Anthropology, Physical Anthropology, Social and Cultural Anthropology, Indian Prehistoric Archeology. Semester II: Human Origin and

School of Human and Environmental Sciences

Evolution, Fieldwork Methods and Techniques, Human Ecology and Adaptation (Open), Anthropology of Northeast India (Open), Asian Prehistoric Archaeology. Semester III: Social/Cultural: Anthropology of India, Anthropology of Gender, Culture, Health and Medicine, Language, Culture and Society (Open), Demography. Physical/Biological: Language, Culture and Society (Open), Demography, Human Genetics, Human Growth and Body Composition, Practical in Physical Anthropology – I. Semester IV: Social/Cultural: Theories in Anthropology, Economy and Culture, Development Anthropology, Biostatistics, Dissertation & Viva Voce. Physical/Biological: Biostatistics, Dissertation & Viva Voce, Biocultural Anthropology, Dental Anthropology, Practical in Physical Anthropology – II.

PhD

Research Methodology in Anthropology, Biological and Cultural Diversity in Northeast India, Recent Developments in Social and Cultural Anthropology, Advanced Studies in Biological Anthropology, Review of Literature and Seminar.

Study Tours/Field Trips of Students

Dr. Lucy Zehol took the 3rd Semester students to Sodzulhou, 7th Mile and Zani villages, Dimapur, Nagaland for their fieldwork training, which is a compulsory part of the curriculum with effect from 6th to 30th January, 2011.

Seminars/Conferences/Symposia/Extension Programmes, etc.

Organised

1. The department organized the XV Dr. Verrier Elwin Endowment Lectures on 29-30 March 2011. The lectures were delivered by Prof. A.N.M. Irshad Ali of Gauhati University, Assam.

2. Professor H. Lamin organized a national seminar on 'Mother Tongue in Northeast India with Special Reference to Meghalaya' jointly with the Department of Linguistics, NEHU, Shillong, July 5-7, 2010.

Attended

Professor T. B. Subba attended the national workshop on 'Mother Tongue in Northeast India with special reference to Meghalaya' organised by the departments of Anthropology and Linguistics, NEHU, Shillong on 5-7 August 2010. Chaired one session and presented a paper titled "Mother Tongue Maintenance: Some Constraints".

Dr. L. Zehol attended: (i) national seminar on 'Development and Ecology: Issues and Perspectives' organized by the Department of Sociology, NEHU, Shillong, 21-22 March 2011 and presented a paper on "Sacred Forest: A cultural symbol of Tribal identity/Politics and the Interpretation of Meaning", (ii) workshop on 'Community Forests of North East India: Status and Strategies for Conservation' organized by the Regional centre, National Afforestation and Eco-Development Board, NEHU, Shillong, 10 December 2009, and presented a paper on "Undisturbed Forests (*bo kunyu wo*) of Nagaland", (iii) a workshop on 'Gender Perspectives in Women Studies' organized by Women's Studies Centre, St. Edmund's College, Shillong, 22nd May 2010, and presented a paper on "Women's Studies Perspectives", (iv) national training programmes on 'Empowerment of Women Executives Through Self-awareness' organized by the Regional Head Quarter of Power Grid Corporation of India Limited, Shillong, 7-9 April 2010, and presented a paper on "Managing Social (personal) and Professional Roles."

Dr. G. Ranjan attended: (i) international seminar on 'Theory at Work: Text, History and Culture' organized by the Department of English, Banaras Hindu University, Varanasi, November 9-11, 2010 and presented a paper entitled "Ethnography of North East India and Post Modernism", (ii) international conference on 'Revisiting Research Methods in Social Sciences' organized by the Department of Anthropology, Sambalpur University, and the Contemporary India Study Centre Aarhus, Aarhus University, Denmark, at Sambalpur University, November 25-27, 2010 and presented a paper titled "Anthropological Approach to Understand the Politics of Power in a Vulnerable Group", (iii) international seminar on 'Inclusive Development in India: Past Experiences, Present Challenges and Future Directions' organized by the Department of Social Work, University of Lucknow, December 20-21, 2010, and presented a paper titled "Matriliny and Women Empowerment in the Khasi Tribe of Meghalaya: Promise and Paradox", (iv) national seminar on 'Human Concerns of Environmental Conservation in 21st Century, organized by Jwala Devi Vidya Mandir Post Graduate College, Anand Bagh, Kanpur, February 12, 2011, and presented a paper entitled "Symbiosis between Natural and Human Resources in Uttaranchal Terai", and (v) national seminar on 'Development and Ecology: Issues and Perspectives' organized by the Department of Sociology, NEHU, Shillong, March 21-22, 2011, and presented a paper entitled "Panchayat (Extension to Scheduled Areas) Act, 1996 (PESA) and the Use of Natural Resources By the Tribes."

Ms. V. Pakyntein attended: (i) International consortium on 'Embracing Peace Education: Empowering the Individual, Institutions and Communities. Special Focus on India' jointly

organized by the Peace Studies Department, MLCU, Centre for Peace Education (CFPEM), Gandhi Peace Foundation (GPF) New Delhi and Institute of Global Education (IGE) in special consultative status with ECOSOC, United Nations, MLCU, Shillong, November 6-8, 2010, and presented two papers on 7 November 2010: (i) "The concept of Peace and Resolution of Conflicts in Traditional Pnar Society" and (ii) "Indigenous Pnar Gift-Giving".

Dr. Q. Marak attended: (i) the 31st Annual Session of North East India History Association at Don Bosco College, Tura, February 14-16, 2011 and presented a paper entitled "Stone Age Archaeology in the Garo Hills: Some Issues and Prospects", (ii) the Inter-Congress in Anthropology, organized by Indian National Confederation and Academy of Anthropologists (INCAA) and Anthropological Survey of India from February 21st to 23rd, 2011 at Kolkata, and presented a paper titled "Changing Dimensions of Rice in Garo Foodways", and (iii) national seminar on 'Development and Ecology' organized by Department of Sociology, NEHU, Shillong, 21-22 March 2011, and presented a paper titled "Traditional versus Non-Traditional Rice: Issues developing due to government initiatives."

Publications

Published in India

Haloi A, Thabah CR, Limbu DK, Dkhar PS, Chakraborty R 2010. Assessment of Certain Essential Elements in Some Common Edibles from Dadara and Agyathuri Villages of Kamrup District of Assam. *Journal of Human Ecology*, 31(2):79-85.

Khongsdier, R., S. Bisai and K. Bose, 2009. Evaluation of thinness among urban Bengalee adolescents of Midnapore, India: Using new international BMI cut-offs. *Indian Journal of Biological Sciences*, 15:49-55.

Marak, Q. 2009. Comfort Food: Its Significance in Garo Society. *Bulletin of the Department of Anthropology Dibrugarh University*, 37: 145-48.

Marak, Q. 2010. *Jagua Nakam*: A Look into Its Properties, and Its Revelations on Garo Lifeways. *Antrocom Online Journal of Anthropology*, 6(2): 227-34.

Marak, Q. 2010. Sex Typing of Children's Tasks: A Study among the Garos of Assam. *The Oriental Anthropologist*, 10(2): 301-10.

Subba, T. B. 2010. Anthropological Ambivalences: Are there ways forward? In A. K. Danda and Dipali G. Danda (eds), *Anthropology in India: Current Epistemology and Future Challenges*. Jhargram: Indian National Confederation and Academy of Anthropologists and Bhopal: Indira Gandhi Rastriya Manav Sangrahalaya, 129-44.

Published Abroad

Khongsdier, R., S. Bisai, K. Bose, A. K. Bhunia, D. Mahalanabis and S. Koziel, 2010. Prevalence of overweight and obesity among Bengalee adolescents in Midnapore town, West Bengal, India. *International Journal of Current Research*, 10:74-83.

Subba, T. B. and Jelle J. P. Wouters, 2010. Revisiting Srinivas's remembered village. *Journal of the Anthropological Society of Oxford, New Series*, 2 (1-2): 44-65.

Research Projects

Ongoing

UPE project titled "Culture, Genetics and Status of Health in Northeast India".

Honours/Awards/Recognition

Prof. T.B. Subba was renominated as Member, Editorial Advisory Board, *Contributions to Indian Sociology*, Institute of Economic Growth, Delhi University, Delhi, for three years from 2010.

Other Academic Activities

T. B. Subba attended the international conference on 'Ritual, Art and Language: Making Indigenous Politics in India' held at Fraueninsel and organized by the Institute of Ethnologie, Munich University, Germany (4-6 January 2011). Conducted an Open Session on "Indigeneity in Context" and summed up the conference. He continued as Editor, *The NEHU Journal* and Coordinator, *NEHU Extension Lectures*. Was chairman of the Syllabus Drafting Committee for five-year integrated course on Indigenous Cultural Studies at the Central University of Jhargram. Delivered two lectures at the Refresher Course organized by the Academic Staff College of Gauhati University on "Teaching in Anthropology in India" and "Research in Anthropology in India" on 19.3.2011.

Prof. R. Khongsdier served as a member of the editorial boards of *The NEHU Journal*, *Journal of Human Biology*, *Journal of Life Sciences* and the *Anthropologist Journal*, New Delhi. He served as a referee for the *European Journal of Clinical Nutrition* and *British Medical Journal*, UK. He also served as a member of the Technical Advisory Committee, Biological Divisions, Indian Statistical Institute, Kolkata, and was Vice-Chairman, State Resource Centre, NEHU.

Dr. B.T. Langstieh delivered a lecture on "Contemporary reflections on Evolution from an Anthropological viewpoint" at St. Anthony's College, organised by the Department of Zoology (Inauguration of Golden jubilee celebrations), St. Anthony's College, Shillong, 21st July 2010 on the theme "A Question of Origins: Creation versus Evolution".

Dr. G. Ranjan delivered two lectures titled (i) "Understanding Cultures: Challenges and

NEHU Annual Report 2010-2011

Constraints” and (ii) “Scheduled Tribe: A Category, A Label” at the workshop on ‘Advance Course in Sociology and Anthropology’ at ICSSR-NERC, Shillong, December 3-4, 2010.

Mrs. V. Pakyntein participated in panel discussion on ‘Women Reservation: Are we ready for It?’ organized by Women’s Cell-Shillong College, 29 May 2010.

Department of Environmental Studies

Name of the Head : Prof. B. K. Tiwari
Telephone : 0364-272-1158, 9436100984 (Cell)
Email : bktiwarinehu@gmail.com

Thrust Areas : Biodiversity Conservation, Environmental Monitoring, Forest Management, Environmental Impact Assessment, and Environmental Biology.

Faculty Profile

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

Associate Professors : Dr. D. Walia, M. Tech. (Dr HSGVV, Sagar), Ph.D. (Gauhati University)
Dr. D. Paul, M. Sc., Ph.D. (NEHU)

Assistant Professor : Dr. S.S. Chaturvedi, M. Sc. (DDU, Gorakhpur), Ph.D. (BHU)

Student Intake

Enrolment Capacity: M.Sc: 25, Ph.D.: Variable

Actual Admission

M.Sc.

| Actual admission | SC | ST | Gen | Male | Female | Total |
|------------------|----|----|-----|------|--------|-------|
| M.Sc. | - | 23 | 2 | 15 | 10 | 25 |

Ph.D.

| Actual admission | SC | ST | Gen | Male | Female | Total |
|------------------|----|----|-----|------|--------|-------|
| Ph.D. | 1 | 5 | 2 | 5 | 3 | 8 |

Degrees Awarded

M.Sc.

| Name of the Degree | SC | ST | Gen | Male | Female | Total |
|--------------------|----|----|-----|------|--------|-------|
| M.Sc | - | 13 | 1 | 7 | 7 | 14 |

Courses Conducted

MSc

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, Environmental Law, Environmental Geosciences and Energy, Research Methods, Techniques and Statistical Analysis, Disaster Management, Environmental Issues and Problems of North East India, Environmental Economics and Sociology, Forest Management and Biodiversity.

PhD

Research Methodology in Environmental Science, Contemporary Environmental Science, and Review of Literature and Seminar.

Study Tours/Field Trips of Students

Dr. D. Walia and Dr D. Paul guided the third semester M.Sc. students for Study Tour from 2nd to 15th January 2011. The students visited several academic institutions and places of biological and environmental interest in Chennai, Pudduchery and Kolkata.

Seminars/Conferences/ Workshops/Extension Programmes

Organized

Prof. B. K. Tiwari coordinated the international workshop on 'Managing biodiversity for sustainable livelihoods in changing environment in marginal mountain regions' in collaboration with Delhi University, Jawaharlal Nehru University and United Nations University, Tokyo on 21-23 December 2010 at NEHU, Shillong.

Dr. Devesh Walia organized the 'Training

programme on Nonlinear dynamics and its application in geosciences', Seismology Division, Ministry of Earth Sciences, GOI, New Delhi, held on from 18th to 22nd June 2010; International Earth Science Olympiad – Entrance Test sponsored by the Geological Society of India in Earth Sciences on January 16, 2011. Discussion Meet on 'The status of the Geophysical Studies in NEHU', Seismology Division, MoES, GOI, New Delhi on 21st May 2010. Interactions meet on Status of Hydrogeological and structural geology BARC-BRNS projects from 22nd to 24th May 2010 at NEHU Shillong. Dr. Walia (Coordinator) and Dr. D. Paul (Jt. Coordinator) organized the first interdisciplinary Refresher Course in Environmental Sciences on the theme 'Environmental Science and conservation of Natural Resources' from 26th June to 16th July 2010 under the aegis of UGC-ASC, NEHU, Shillong.

Attended

Prof. B. K. Tiwari attended the seminar on 'Resettlement and Rehabilitation Policy: Hype and Hope', July 5-6, 2010, Shillong, organized by Indian Environmental Society, New Delhi and Friedrich Ebert Stiftung, Germany and presented a paper entitled "Resettlement and ecological issues in coal mining in Jaintia Hills, Meghalaya"; Eastern Himalayas Regional Workshop on Forests and Climate Change on 24-28 January 2011, Kathmandu, organized by United States Forest Service and ICIMOD and presented a paper entitled "Climate Change Mitigation: Initiatives for Operationalizing REDD in North-East India"; Workshop on 'Evolving Mechanisms for Payment to Communities for Improving the Flow of Ecosystem Services from Forests with Special Attention to Rainwater Harvesting and Protection of Watersheds' 7-8 February 2011,

Aizawl and presented a paper entitled "Ecosystem goods and services from forests with special reference to north east India". Knowledge sharing workshop on 'Climate induced water hazards in Brahmaputra basin in northeast India: Adaptation, governance and community based risk mitigation' on February 15, 2011, Guwahati, organized by Aaranyak and ICIMOD, Kathmandu and presented keynote address paper entitled "Implication of climate change on northeast India: strategies for adaption". 'South East Asia Regional workshop on best practices in adaptive water governance', 17-19 January 2011, Guwahati organized by the University of Jena, Germany, presented a paper entitled "Integrated Water Resource Management in Umew River Basin, Meghalaya". 34th Indian Social Science Congress, 27-31 December, Guwahati, presented an invited paper entitled "Traditional Natural Resource Management Systems Practiced by the Khasi Community of Meghalaya, North-East India" on 29th December 2011 in the plenary session on Biological and Life Sciences. International Conference on Sustainability: Management and Beyond, 8-10 December 2010, Shillong, presented a paper entitled "Elements of sustainability in traditional natural resource management systems practiced by Khasi community of Meghalaya, northeast India". Asia-Pacific Regional Workshop on people in Biodiversity conservation: emerging experiences, opportunities and challenges organized by NERCORMP and MRDS-LIFCOM on November 16-18, 2010 in Shillong, presented a paper entitled "Contribution of NTFPs to the subsistence and cash income of War Khasi community of South Meghalaya, northeast India" and chaired Technical Session III on Biodiversity-agriculture and horticulture. Seminar on 'Global climate change and clean

Development Mechanism: Issues and Impacts' 6th September 2010, Agartala, organised by Tripura University, and delivered an invited talk entitled "Climate change Adaptations and CDM in North-East India". Shillong CMS Vatavaran, Environment and Wildlife Film Festival & Forum, 28 August - 3rd September 2010, Shillong, presented a talk on "Climate change: vulnerability of Shillong City" on 1st September 2010. National Seminar on New and Innovative Renewable Energy Efficiency organized by Environment Watch and Management Institute on 10-11 July 2010, Guwahati, delivered an invited lecture entitled "Climate Change and Renewable Energy". National Seminar on Climate change and sustainable development with reference to India, April 1-3, 2010, Tejpur University, presented a paper entitled "Impact of climate change in Meghalaya: Micro-level perception and institutional response". International workshop on "Managing biodiversity for sustainable livelihoods in changing environment in marginal mountain regions" organized by Delhi University, Jawaharlal Nehru University, NEHU and United Nations University on 21-23 December 2010, Shillong, presented paper entitled "People centered forest management in Meghalaya". Ecosystem Services and Poverty Alleviation (ESPA) Research and Development Workshop, 4-6 October 2010, University of Edinburgh, presented a paper on "Forest Ecosystem Services and Poverty in Meghalaya, India".

Prof. L. K. Jha presented a paper entitled "Are the provisions of India's Biological Diversity Act, 2002 adequate in attaining its goal? A critical analysis and suggestions for substitution/ Institution in the provisions to strengthen the Act" at international workshop on 'Managing biodiversity for sustainable livelihoods in changing environment in marginal

mountain regions' organized by Delhi University, Jawaharlal Nehru University and United Nations University, Tokyo and held in NEHU, Shillong on 21-23 December 2010.

Prof. O. P. Singh presented a paper on "Impact of Mining on environment and Biodiversity: A case study of Meghalaya" at the national seminar on 'Optimizing Biodiversity and Social Security in Mining Areas' organized by Balipara Foundation, Balipara (Assam) on December 2-3, 2010 at Balipara.

Dr. Devesh Walia attended the Disaster Management Congress on 'Recent developments in Earthquake Forecasting', Guwahati, 26-27 March 2011 and presented a paper on "The Great Earthquake: revisit to 1897 Shillong earthquake"; Presented invited paper during 98th Indian Science Congress 2010, January, Earth System Sciences Section, on 5th January 2011 entitled, "Alpha Radiations in spring and groundwater of Shillong". Presented a paper during the international workshop on EM Sounding in memory of Mark Berdichevsky and Peter Weidelt in Zvenigorod, Moscow on 10-13 June 2010, Geoelectric Structure over the Arakan-Yoma Fold Belt, Surma Basin. Invited talk during national seminar on 'Seismic Disaster Management and Mitigation on Active Fault Zones Mapping in the Shillong Plateau Using Geophysical Data' organized by AASC and NIDM on 23-25 February 2011.

Dr. D. Paul attended the national seminar on 'Biodiversity Conservation: Forest and Land resources management' at Assam University Silchar (March 4-5, 2010) and presented a paper entitled "Ethno-zoological study of wild edible insects of 12th mile village in East Khasi Hills's district of Meghalaya and assessment of the nutritive value of some of the commonly used insects"; Attended the international seminar on 'Energy, Environment and Development: From

Stockholm to Copanhangen and beyond' at Sambalpur University (December 10-12, 2010) and presented a paper entitled "Selenium content of some crops harvested from soils of Meghalaya".

Dr. S. S. Chaturvedi presented a paper entitled "Assessment of doses and risk due to natural radionuclide in green leafy vegetables of Domiasiat, Meghalaya, India" at the international conference on 'Application of Radiotracer in Chemical, Environmental and Biological Sciences' (ARCEBS), organized by Saha Institute of Nuclear Physics, Kolkata in cooperation with IAE, November 7-13, 2010.

Publications

Published in India

Ao, Imotemu and Jha, L.K (2010) Encroachment over the Rights of the Nagas by enacting and extending the application of Forest Conservation, Act 1980 and Bio-diversity Act, 2002: a Critical analysis and Appraisal. *Express Review*, 5th December.

Giri, N., O. P. Singh and G. K. Chhopel (2010). Physico-chemical characteristics of surface water in and around the agricultural fields of Samtse district, Bhutan. *J. Renewable Natural Resources*, 6: 128-45.

Jha, L.K. and Laengmawia (2010). Notes on taxonomic characters, distribution, habitat and utility of orchids of genus *Cryptochilus* Wall; *Cymbidium* SW and *Eria* Lindl. Growing in forests of Mizoram, *Indian J. of Tropical Biodiversity*, 18(1):1-8.

Jha, L. K. (2010) Sustainable land use in North East mountainous areas (foot hills and hills/ mountains) vis a vis modern technology, Proceedings of the national seminar on Management of Natural Resources and Environment in India, GAD Institute of Development Studies, Amritsar, 153-63.

- Jha, L. K. (2010) Pernicious system of shifting cultivation in Meghalaya: eco-restoration measures for its management on sustainable basis, Proceeding National Seminar on Management of Natural Resources and Environment in India, GAD Institute, Amritsar, 262-70.
- Lalnuntluanga and L. K. Jha (2010). Status of research on rattans: a review, *Science Vision*, 10(2):51-56.
- Paul, D, R. Lalnunsangi and L. K. Jha (2010). Small Scale agroforestry systems: Implications on sustainable environmental health. *NeBio*, 1 (2):51-54.
- Sarma, K. L. K. Jha and B. K. Tiwari (2010). Land use/land cover dynamics in New Shillong township area of Meghalaya using geospatial tools, pp. 1-9. Proceedings of International Geographical Union (IGU) Commission Seminar on Land Use, Biodiversity and Climate Change, www.iguwahati2010.org.
- Tiwari, B. K., H. Tynsong, M. B. Lynser, B. Nongbri, U. Shilla, B.M. Kharkongor and M.M. Lynrah (2011). Elements of sustainability in traditional natural resource management systems practiced by Khasi community of Meghalaya, north-east India. In Proceedings of International Conference on Sustainability: Management and Beyond, 41-43.
- Tynsong, H. and Tiwari B.K. (2010). Plant Diversity in the homegardens and their significance in the livelihoods of *War Khasi* Community of Meghalaya, North-East India. *Journal of Biodiversity*, 1(1): 1-11. *Published Abroad*
- Jha, L.K. (2010) Bamboo based agro forestry systems to reclaim degraded hilly tracts (jhum) land in North Eastern India: study on uses, species diversity, distribution, and growth performance of *Melocanna baccifera*, *Dendrocalamus hamiltonii*, *D. longispachus* and *Bambusa tulda* in natural stands and in stands managed on a sustainable basis, *Bamboo Science and Culture*, American Bamboo Society, 23: 1-28.
- Tiwari, B. K., H. Tynsong and M.B. Lynser. 2010. Forest Management Practices of the Tribal People of Meghalaya, North-East India. *Journal of Tropical Forest Science*, 22(3): 329–42.
- Tiwari, B. K. H. Tynsong and S. Phanbuh (2010). Impact of cash crop cultivation on gender relations dynamics in Khasi community a matrilineal tribe of Meghalaya, India Proceedings of International Symposium towards sustainable livelihoods and ecosystems in mountainous regions 7-9 March 2006 Chiang Mai Thailand. p 1-8. <https://www.uni-hohenheim.de/sfb564/uplands2006/contributions/CPS-2-4Tiwari-full.pdf>;
- Tynsong, H. and Tiwari, B.K. 2010. Diversity of plant species in arecanut agroforests of south Meghalaya, north-east India. *Journal of Forestry Research*, 21(3): 281-86.
- Walia, Devesh and Bijay S. Mipun (2010) Hydrological behavior of Umshing river, east Khasi Hills, Meghalaya, *Acta Geophysica*, 58 (5): 908-921.
- Walia, Devesh, Andrew C. Lyngdoh and A. Saxena (2010) Seismotectonic zones demarcation in the Shillong Plateau using the microearthquakes and radon emanation, *Acta Geophysica*, 58 (5): 893–907.

School of Human and Environmental Sciences

Funds Received

| | | |
|------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|
| Research Project: GDP of the Poor | Rs 1,23,886 | University of Liverpool, UK |
| Seminar on Managing biodiversity | Rs 70,000 | ICSSR, Shillong |
| | Rs 75,000 | DST, New Delhi |
| | Rs 35,000 | NEHU, Shillong |
| Metagenomics of insect gut microflora implicated in cellulose digestion. | Rs. 10.0 Lakhs | NEC, Shillong |
| “Quantification and characterization Of Solid waste and sewage for the Shillong urban agglomeration (SUA) area . | Rs. 1.7 Lakhs | Mott McDonald |
| Implications of soil faunal grazing on N Mineralization process in Forest and Agroecosystem soils | Rs. 8.55 Lakhs | UGC |
| Baseline data of Domisiat ecosystem due to natural radiation dose | Rs. 9.87 Lakhs | DAE |

Research Projects

Completed

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Investigator: Dr. Devesh Walia |
| 1. Age, Sr–Nd and paleomagnetic Studies on alkaline complexes from Assam and Meghalaya, North Eastern India, funded by Department of Science & Technology (DST), GOI, N. Delhi. Principal | 2. Landslide Mapping/Erosional, Aspects, Vulnerability and Risk Assessment of Shillong Urban Area with Special Reference to Umshing Micro Watershed. DST, GOI, N. Delhi. Principal Investigator: Dr. Devesh Walia |

New

| Title | Funding agency | Amount | PI |
|--------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|-------------|
| 1. GDP of the Poor | University of Liverpool | 1.24 Lakhs | B.K. Tiwari |
| 2. Metagenomics of insect gut microflora implicated in cellulose digestion . | NEC | 24.66 Lakhs | D. Paul |
| 3. Quantification and characterization of Solid waste and sewage for the Shillong urban agglomeration (SUA) area . | Mott McDonald | 8.99 Lakhs | D. Paul |
| 4. Implications of soil faunal grazing on N Mineralization process in Forest and Agroecosystem soils | UGC | 10.55 Lakhs | D. Paul |
| 5. Assessment of Lipids and fat soluble vitamins in the commonly consumed wild edible Insects of Meghalaya | DRDO | 25.85 Lakhs | D. Paul |

Academic Collaboration

Prof. B. K. Tiwari has academic collaborations with 1. University of Liverpool, UK, for research on “GDP of the Poor in North East India”; 2. Indian Institute of Science, Bangalore and KFW, Germany for research on “Climate change vulnerability and adaptation for North East India”.

Dr Devesh Walia has academic collaborations with NGRI, Hyderabad, BARC, Mumbai and IIG, Navi Mumbai.

Honours/Awards/Recognition

Professor B. K. Tiwari was elected as Sectional President of Environmental Science, 99th Session of Indian Science Congress Association 2011-2012. He continued to be Chairman, State level Expert Appraisal Committee appointed by Government of India, under EPA Act of 1986. Member of Meghalaya Catchment Area Development Board, Meghalaya, Member of Joint Action Committee on Uranium Mining in Meghalaya, Member of State Level Committee for Preparation State Action Plan for Climate Change Meghalaya.

Prof. O. P. Singh has been nominated as a member of the Environmental Advisory Group (EAG) of North Eastern Electric Power Corporation (NEEPCO), Shillong for the period 2010-2012.

Dr Devesh Walia has been elected as Life Fellow, Indian Geophysical Union, NGRI, Hyderabad.

Other Academic Activities

Prof. B. K. Tiwari delivered an invited lecture on “Climate Change” on 9th July 2010 at Shillong College. Delivered an invited lecture on “Role of forest in combating climate change” on 26th October 2010, under an awareness campaign on environment and social forestry organized by IGNOU, Shillong during celebration of Silver Jubilee of IGNOU. 1st Memorial Lecture in the

memory of Valentine Richard Miranda and Marjorie Miranda on 8th December, 2010 at St. Edmunds College entitled “Forest and the People of Meghalaya”.

Prof. O. P. Singh delivered an invited lecture on “Climate change: Issues and Impact in Northeast India” at the Regional Media Workshop on Reporting Climate Change organized at Shillong by the Centre for Media Studies (CMS), New Delhi from August 28 to September 3, 2010 under the aegis of Shillong CMS Vatavaran Traveling Film Festival- 2010; Participated and delivered an invited talk on “Sustainable options of development of the North-Eastern Region of India” at the national seminar on ‘Development and Ecology: Issues and perspectives’ organized by the Department of Sociology, North-Eastern Hill University during March 21-22, 2010 at Shillong. Prof. Singh attended meeting on Midterm Evaluation of progress of work done under Major Research Projects sanctioned by the University Grants Commission, New Delhi held on March 16, 2011 in New Delhi. Prof. Singh chaired a session of the national seminar on Maintenance of Teaching Standard in Higher Education: Issues, Problems and Reforms organized by North-Eastern Hill University Teachers’ Association (NEHUTA) on March 25 – 26, 2011.

Dr. Devesh Walia attended the TPDM, BARC-BRNS on the “Requirement of hydro-geological data for Ground Water Modeling”, held at Mumbai, April 12, 2010; Attended the TPDM at VECC, Kolkata, November 15-16, 2010; Attended the Industry-Academia workshop on IOR – EOR: Challenges, process and technologies on 15th and 16th April 2010 organized by ONGC and Petrofed at Le Meridian, New Delhi; Attended the Industry-Academia workshop on Upstream Petroleum Technology at PDPU, Gandhi Nagar, November 11-13, 2010 organized by PDPU,

School of Human and Environmental Sciences

ONGC and Petrofed. Imparted training to state government officers, architects and engineers on seismic disaster and its mitigation through Meghalaya Administrative Training Institute and National Disaster Management Institute, New Delhi on June 21- 26, 2010. Attended Expert Committee meeting on Landslides on June 7 & 8, 2010 at Department of Civil Engineering, IIT, New Delhi; Attended summit on EM-powering North-East-Energy for sustainable development on 31st July 2010 at Shillong, organized by ICC, Kolkata; Invited lecture delivered at the national seminar on 'Earthquakes, hazard mitigation and

management', organized by SEED, Guwahati on March 26-27, 2011 on seismic hazard forecasting and mitigation and recent trends in meteorological parameters indicating tendencies in climate change in and around Shillong and Sohra (Cherrapunjee).

Dr. S. S. Chaturvedi co-chaired a technical session of the international seminar/workshop on 'Managing Biodiversity for Sustainable livelihoods in the changing Environment in Mountain Regions' organized by Department of Environmental Studies, NEHU in collaboration with JNU, Delhi University and UNU, Dec 21- 23, 2010.

Department of Geography

Name of the Head : A.C. Mohapatra
Telephone : 0364-2723203, 2723202 (O)
Email : acmohapatra@hotmail.com/ acmohapatra@nehu.ac.in

Thrust Areas

(i) Geomorphology with focus on Regional and Applied geomorphology, (ii) Environmental studies with focus on Climatology & Climate change, Water Resources and Hydrology, Biogeography and Biodiversity 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 nine students qualified in the UGC NET under Lectureship category. The department organized a series of lectures delivered by eminent geographers like Prof. R. N. Vyas from Sikkim University and Prof. A.H. Kidwai

and Prof. Harjit Singh from JNU, New Delhi under the SAP-DRSII programme. The department organized an international seminar on 'Mapping Change in South and Southeast Asia: Geopolitics, Economy and Demography' during the year under review. A Refresher Course for the college and university teachers was also organized by the department under the aegis of the ASC, NEHU. The faculty remained active in publication of research papers in a number of international and national journals as well as book chapters. As many as seven research scholars were awarded PhD degree. The research scholars of the department took initiative to start a forum called NEHU Geographical Research Forum with the objective of sharing, exchanging and improving intellectual capacity. The forum organised a number of talks on contemporary issues of geographical significance.

Faculty Profile

| | | |
|----------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Professors | : | A. C. Mohapatra, M.A, MPhil (JNU) Ph.D (NEHU) Surendra Singh, M.A. Ph. D (Meerut U) B.S. Mipun, MA (JNU) Ph.D (NEHU) D. K. Nayak, M.A. MPhil, Ph. D (JNU) Z. H. Qureshi, M.A. Ph. D (M. L. Sukhadia U) |
| Associate Professors | : | H. J. Syiemlieh, M.A., MPhil (NEHU) Ph.D (NEHU) L. Cajee, Msc., Ph.D (NEHU) N. K. Sinha, M.A. (Gauhati U) Ph.D (NEHU) P. G. Momin, M.A (JNU), M. Phil (NEHU) |
| Assistant Professors | : | P. K. Ryngnga, M.A (NEHU), M. Phil, Ph.D. (JNU) S. Purkayastha, M.A, Ph.D. (NEHU) |

Student Intake

| | | | | | | |
|-----------------------------------------|----|----|-----|-------------------------|--------|-------|
| <i>Enrolment Capacity: MA/M.Sc – 38</i> | | | | <i>Ph. D.: Variable</i> | | |
| <i>Actual Admission</i> | | | | | | |
| | SC | ST | Gen | Male | Female | Total |
| <i>MA/MSc</i> | - | 34 | 4 | 18 | 20 | 38 |
| <i>Ph.D.</i> | - | 6 | 4 | 2 | 8 | 10 |

Degrees Awarded

| | | | | | | |
|-------------------|----|----|-----|------|--------|-------|
| | SC | ST | Gen | Male | Female | Total |
| <i>M.A. /M.Sc</i> | 1 | 30 | 1 | 15 | 17 | 32 |
| <i>Ph. D:</i> | 1 | 2 | 4 | 5 | 2 | 7 |

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| <ol style="list-style-type: none"> 1. Ambikapatty, “Urban Growth and Managing the Solid Waste: A study in Environmental Sanitation of Shillong Urban Agglomeration” Supervisor: Prof. A. C. Mohapatra. 2. Sujata Deori, “Spatial Distribution of Deori Tribes in Assam: Case Study of Dhemaji District” Supervisor: Prof. B. S. Mipun. 3. Subhalakhmi Rajkumari, “Water logging in Jorhat Town: A Geographical Analysis” Supervisor: Prof. B. S. Mipun. 4. Soilalsiam, “Changing Vaiphei Society: A Geographical Analysis” Supervisor: Dr. N. K. Sinha. 5. Debraj Sarma, “Forest Resources Utilisation in Kamrup District: A | <ol style="list-style-type: none"> 6. Geographical Analysis” Supervisor: Dr. H. J. Syiemlieh. 6. Niranjana Das, “Potentiality of Ecotourism in Nameri National Park, Assam: A Geographical Analysis” Supervisor: Dr. H. J. Syiemlieh. 7. R. Lalmuankima, “Shift in Occupational Structure in Small Town of Serchhip District, Mizoram” Supervisor: Prof. A. C. Mohapatra. |
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Courses Conducted

MA/MSc

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

Geography of India, Principles of Ecology (open course) Bio-Geography (open course), Population and Settlement Geography, Geographical Thought-II, Quantitative Techniques in Geography-II, Cartography-II (Practical), Geography of North-East India (open course). Semester III: Regional Development and Planning, Social and Cultural Geography (open course), Environment and Development (open course), Research Methodology, Computer Aided Cartography (Practical), remote Sensing and GIS (Practical). Semester IV: Dissertation, Advanced Geomorphology, Environmental Geomorphology, Applied Climatology, Integrated Area Planning, Agricultural Geography, Social Geography, Cultural Geography, Population and Development.

Ph. D.

Research Methodology in Geography, Advanced Tools and Techniques in Geographical Studies, Contemporary Geomorphic Issues in North-east India, Geo-Hydrological Processes of Extreme Humid Tropics; Population, Development and Environment, Remote Sensing and GIS Techniques for Agricultural Geography, Contemporary Issues in Urban Development with Special Reference to India, Geographical Perspectives in Cultural Tourism.

Study Tours/Field Trips of Students

Socio-economic survey at Umran area, East Khasi Hills District, Meghalaya, Second Semester M.A. /M.Sc. conducted on December 13–22, 2010, Teachers In-Charge: Prof. B. S. Mipun and Dr. L. Cajee.

All India Study Tour conducted at Pune-Hyderabad region on 6-22 January 2011. Teachers-in-Charge: Dr. H.J. Syiemlieh and Mr. P.G. Momin.

Seminars/Conferences/Symposia/Extension Programme

Organised

1. Refresher Course on Application of Advanced Techniques in Geography Teaching and Research, 1-20 November 2010.
2. International Seminar on Mapping Change in South and Southeast Asia: Geopolitics, economy and Demography (Supported by MAK AIS, SAP-DRS, NEHU, IIPS & ICSSR).

Attended

Prof. A.C. Mohapatra (i) delivered as a resource person a lecture on “Climate Change and Possible Effects on Livelihood of Farmers in Upland Areas of North East Region” at the national seminar on ‘Climate Change, Potential Environmental Apocalypse and Human Ethics etc’, Synod College, Shillong, October 7-8, 2010; (ii) presented a paper on “The Land, Tribe and Social Justice” at the annual conference of National Association of Geographers, India (NAGI), Panjab University, Chandigarh, November 19-21, 2010; (iii) presented a keynote paper on “At the Heart of Darkness: The Land Question of the Central Indian Tribes” at the annual conference of Indian Institute of Geographers, Rajasthan University, Jaipur, January 16-18, 2011.

Prof. Surendra Singh (i) acted as resource person in UGC sponsored workshop on ‘Philosophy and Methodology of Research in Geography’, J. B. College, Jorhat, 27-29 May, 2010; (ii) presented a key note paper on “Prediction of Runoff in the Extremely Humid areas of Cherrapunji” at the national seminar on ‘Natural Resource Management’, Department of Geography, University of Calcutta, Kolkata, 10-11 March, 2011; (iii) presented a paper on

“Regional Structure of Indian Agriculture: An analysis of Post Liberalisation Phase” at the 34th annual conference of the Australia and New Zealand Regional Science Association International (ANZRSAI), Melbourne (Australia), 7-10 December 2010.

Prof. B.S. Mipun (i) presented a paper on “Earthquake Monitoring and Evaluation-Its Effects and Mechanism” at the workshop on ‘Understanding Earth System Sciences’, Nagaland University, Lumami, 27-28 March 2010; (ii) presented a paper on “Village Groupings and Its Impact on Mizo Society” at the international seminar on ‘Grouping of Villages’, Zoram Research Foundation, Aizwal, 6-10 September, 2010; (iii) presented a paper on “Landslide Mapping and Risk Assessment of Umshing Micro watershed using RS, GIS and GPS” at Map Asia 2010 international conference, Kuala Lumpur, 26-28 July, 2010; (iv) presented a paper on “New Environment for Rhino Habitat Using Land Cover Change Dynamics Analysis in Rajiv Gandhi Orang National Park of Assam, using Remote Sensing and GIS Technique” and chaired a session in the national seminar on ‘Tourism and Environment’, Lady Keane College, Shillong, 7-8 October, 2010.

Prof. D.K. Nayak (i) presented a paper (with Mayuri Das) on “Resettlement and Rehabilitation: The Case of Majuli” at a seminar on ‘Resettlement and Rehabilitation Policy: Hype and Hope, Indian Environmental Society’ supported by Friedrich Ebert Stiftung, Hotel Pine Wood, Shillong, 5-6 July 2010; (ii) presented a paper on “Climate Change and its Impact on Human Migration with Special Reference to the North-East India” at the DST sponsored seminar on ‘Global Climate Changes and Clean Development Mechanism: Issues and Challenges’, Department of Chemistry, Tripura University, 6th September, 2010, also delivered

the Valedictory Address; (iii) delivered an invited lecture on “Demographic Dynamics and Climate Change” at the national seminar on ‘Climate Change: Issues and Challenges’, M.S.U. Vadodara, 22-23 October, 2010, and chaired a session; (iv) presented a paper on “Population and Climate Change” at the XXXII Indian Geographers Meet and international conference on ‘Climate Change, Geo Hazards and Disaster Management’, University of Rajasthan, Jaipur, 17-19 January, 2011, chaired a session on Geography of Health; (v) presented a paper on “Social Construction of Disasters: The Case of Floods” at the UGC-SAP national seminar on ‘Disasters: Perception and Mitigation’, North-Bengal University, Siliguri, 11-12 March, 2011.

Prof. Z.H. Qureshi (i) presented three papers on “Shifting Course of the Kameng River” (with A.C. Debnath), “Human Impact on Silsako wetlands of Guwahati City” (with N. Memma Singha) and on “Morphometric analysis of the Manas watershed using remote sensing technique” (with Jenita Mary Nongkynrih) at the 23rd annual conference of the IGI and national seminar on ‘Global Environmental Change: Geomorphological Issues and Challenges’, Gauhati University, Guwahati, 20-22 November, 2010, chaired technical session VI; (ii) presented a paper titled “Fluvial hazards in Northeast India: perception and Mitigation” at the UGC SAP DRS-I seminar on ‘Disaster: Perception and Mitigation’, Department of Geography and Applied Geography, North Bengal University, Siliguri, 10-11 March, 2011.

Dr. H.J. Syiemlieh (i) presented a paper titled “Prediction of Runoff in the Umulah Catchment of Extremely Wet area of Cherrapunji, India” at the 4th international seminar on ‘Small Catchments Dynamics: Connectivity in Time and Space’, Israel, 21-25 November 2010, (ii) presented (with Jane E. Warjri *et.al*) a paper on

“Morphological Study of Small Streams in Extreme Humid Areas: A Case Study of Sderkarieh, Cherrapunjee” at the XXXII Indian Geographers Meet and international conference on Climate Change, Geo Hazards and Disaster Management, University of Rajasthan, Jaipur, 17-19 January, 2011.

Dr. L. Cajee presented (with L. Haokip) a paper on “Diversity of Bamboo species and its Utilization in the North Eastern Region of India” at the International Geographical Union (IGU) Commission Seminar on Landuse, Bio Diversity and Climate Change, Cotton College, Guwahati, 11-13 December, 2010.

Dr. P. K. Ryngha (i) presented a paper on “Conservation of Bio Diversity in Urban areas: A Case of Shillong” at the International Geographical Union (IGU) Commission seminar on ‘Landuse, Bio Diversity and Climate Change’, Cotton College, Guwahati, 11-13 December, 2010; (ii) presented a paper on “Urban Management Challenges in North East India: A Case of Shillong” at the national seminar on ‘Environmental Issues’, PG National College, Lucknow, 18-20 February, 2011 and chaired a session.

Publications

Published in India

Hynniewta, I and Mohapatra, A.C. 2010. Street Corner Stores in the City: A Case Study of Jaiaw Ward of Shillong. *Indian Journal of Regional Science*, 42(1): 38-48.

Nayak, D.K. 2011. A Geographical Perspective on the Patterns of Ageing in the Tribal Areas of the North-Eastern Region of India (eds. S Lahiri, B. Paswan and K C Das) *Migration, Health and Development*. New Delhi: Rawat, 279-298.

Nayak, D.K. 2010. Review of *Water Ecosystem and Society: A Confluence of Disciplines* by Jayanta Bandyopadhyay, *The NEHU Journal*, VIII (2) July: 128-32.

Purkayastha, S. 2010. Spatial Distribution of Reproductive and Child Health Services In Meghalaya. *Journal of NEICSSR*, 34(2): 30-37.

Ryngnga, P.K. 2010. Solid Waste Management in Shillong: A Socio-Environmental Concern, *Journal of NEICSSR* 34(1):75-85.

Singh, S and Syiemlieh H. J. 2009. Hourly Weather Statistics of Four Stations of the Central Meghalaya Plateau (July 2008-December 2008), Research Monograph No. GE/NRDMS/DST/SS/9, Department of Geography, North-Eastern Hill University Shillong 793022: 240+iv pp. (Not referred in 2009-10).

Singh, S and Syiemlieh H. J. 2010. Runoff Processes in Extremely Humid Areas of the Central Meghalaya Plateau, Research Monograph No. GE/NRDMS/DST/SS/10, Department of Geography, North-Eastern Hill University Shillong 793022: 86+vii pp.

Singh, S. 2010. Modelling and Simulation Techniques in Geographical Research, (eds. P. R. Sharma, R. S. Yadava and V. N. Sharma) *Research Methodology: Concepts and Studies* New Delhi: R.K. Books, 377-393.

Singh, S. and Banida Kharkhongor. 2010. Role of Transport Network in Development of North East India, *Journal of NEICSSR*, 34(1):1-15.

Published Abroad

Ryngnga, P.K. 2010. Spatial Data Analysis: Application of Spatial Analysis in Social Sciences and its Insinuation *The International Journal of Interdisciplinary Social Sciences*, 5(4): 419-32.

Ryngnga, P.K. 2011. Tourism: A link between India's North East and South East Asia. *South Asian Journal of Tourism and Heritage*, 4(1):83-89.

Singh, S. 2010. Biophysical Attributes and Prediction of Summer Rice Yield in the Brahmaputra Valley, Assam (ed. A. K. Bhagabati)

Proceedings of International Workshop on Agricultural Ecosystem and Sustainable Development in Brahmaputra Basin, Assam, India. Centre for South East Asian Studies, Kyoto University.

Walia, Devesh and Bijay S. Mipun (2010) Hydrological behavior of Umshing river, east Khasi Hills, Meghalaya, *Acta Geophysica*, 58 (5): 908-21.

Funds Received

UGC (SAP) DRS Programme: Rs. 3.5 Lakhs

MAKAIAS Rs. 6.25 Lakhs

Mott MacDonalda

Private Limited Rs. 8.41 Lakhs

Research Projects

Completed

1. SWADHAR scheme, Department of Women & Child Welfare, MHRD, GOI. PI: Prof. A.C. Mohapatra.
2. Role of Socio-Economic Determinants in Reproductive and Child Health care: A Case Study of Urban Poor Population of Shillong, Meghalaya. UGC-SAP PI: Dr. S. Purkayastha.
3. Land-use /Land-cover and Population Density Influences on Urban Heat Island in Shillong: A Methodological Consideration. UGC-SAP, PI: Dr. P. K. Ryngnga.

New

Baseline Survey for Provision of Infrastructure (Sewerage and Solid Waste Management) for Greater Shillong Planning Area. Mott Macdonald, Ahmadabad PI: Prof. B.S. Mipun, Co-PI: Prof. D. K. Nayak.

Infrastructure Facilities

Water Analyser Kit, Digital Precision Balance, Trinocular Microscope with CCD, BOD

Incubator, Magnetic Stirrer with heater, Flame Photometer, Double Distillation Plant, ArcGIS 931.

Other Academic Activities

Prof. A. C. Mohapatra acted as a discussant at the international seminar on Mapping Change in South and Southeast Asia: Geopolitics, Economy and Demography held at NEHU, Shillong, March 24-26, 2011 and participated as a panellist in the valedictory session on 26.03.2011.

Prof. S. Singh delivered a series of lectures on Methods and Techniques in Geography, UGC sponsored workshop on Philosophy and Methodology of Research in Geography, J.B. College, Jorhat, 27-29 May, 2010; was invited as a Visiting Professor to the School of Business IT and Logistics, Royal Melbourne Institute of Technology (RMIT) University, Melbourne, December 2010; was appointed member of the Editorial Board, *Journal of Business and Economics* (ISSN 2155-7950), Academic Star Publishing Company, New York.

Prof. B.S. Mipun acted as the course coordinator, refresher course in Geography on Application of Advanced Techniques in Geography Teaching and Research, NEHU, Shillong, 1-20 November 2010; was convener, international seminar on Mapping Change in South and Southeast Asia: Geopolitics, Economy and Demography, 24-26 March, 2011, NEHU, Shillong in collaboration with MAKAIAS, Kolkata and IIPS, Mumbai; chaired a session of the International Geographical Union Commission seminar on Land use, Bio Diversity and Climate Change, Cotton College, Guwahati-11-13 December, 2010.

Prof. D.K. Nayak delivered a series of lectures on settlement geography in the Department of Geography and Disaster Management at Tripura

University, 6-9 September, 2010 as a visiting professor; organising secretary, international seminar on Mapping Change in South and Southeast Asia: Geopolitics, Economy and Demography, Department of Geography, NEHU, Shillong, 24-26 March, 2011; appointed national representative and executive committee member of the International Association of Meteorology and Atmospheric Sciences (IAMAS); chaired a session in the International Geographical Union Commission seminar on Land use, Bio Diversity and Climate Change, Cotton College, Guwahati, 11-13 December, 2010; acted as a discussant and chaired a session at the international seminar on Mapping Change in South and Southeast Asia: Geopolitics, Economy and Demography, 24-26 March, 2011, NEHU, Shillong in collaboration with MAKAIAS, Kolkata and IIPS, Mumbai.

Prof. Z.H. Qureshi was associated with the project on Fluvial Geomorphology of the Manas and Pagladia River Basins, NE-SAC, Barapani; chaired technical session III of the First Indian Landslide Congress, Lucknow, 1-2 November, 2010.

Dr. H. J. Syiemlieh was a co-investigator in the project on Identification Strategy for mapping of S & T Needs in Meghalaya, sponsored by the Government of Meghalaya and was a team member of the Indo-Japan collaboration with Japanese scientists from Disaster Prevention Research Institute, Kyoto University on Climate Change in South Asia; co-hosted the first *Niangtaser* Festival (Cicada Festival unique for its four year cycle) at Lewsier, Ri Bhoi District, 11 June 2010.

Dr. L. Cajee attended the regional training-cum-workshop on Capacity Building in Social Science Research Training Course on SPSS, 1-10 March, 2011 at ICSSR-NERC; was chairman, project committee on Preparation of Training Manuals on Non Timber Forest Products, Phase-I of the project on Piloting of Bio-resource Conservation through Sustainable Livelihood Initiatives in 5 Village-Clusters of Five districts of Meghalaya, MRDS-LIFCOM, Meghalaya; was a team member of the Indo-Japan Collaboration with Japanese scientists from Disaster Prevention Research Institute, Kyoto University on Climate Change in South Asia.

Department of Rural Development and Agricultural Production

Head : Dr. S. K. Nanda
Telephone : 03651-221407 (O) 09436702498 (M)
Email : nanda_subrat2@yahoo.com

Thrust Areas

The department focuses on interdisciplinary research relating to various dimensions of rural development. It also encourages research works in agricultural production especially concerning various fields of horticulture, agronomy, dairy development and animal husbandry.

Brief Statement of Academic Activities

The department started coursework in Ph.D. programme in August 2010 and eight PhD students successfully completed their coursework in December 2010. The department also conducted consultancy services and took up a few project works. Under the Students' Outreach Programme the third and fourth

semester students of the department interacted with several rural groups and communities and assisted some local NGOs in the implementation

of various rural developmental programmes in Garo Hills region.

Faculty Profile

| | | |
|----------------------|---|---------------------------------------|
| Professor | : | S. C. Srivastava, Ph.D. (Allahabad U) |
| Associate Professor | : | S. K. Nanda, Ph.D. (JNU) |
| Reader | : | D. C. Kalita, Ph. D. (AAU) |
| Assistant Professors | : | J. P. Jaiswal, M. Sc. (Allahabad U) |
| | | B. K. Mishra, PH.D. (BHU) |
| | | B. Mathew, Ph.D. (BCKV) |
| | | L. S. Pereira, Ph.D. (BCKV) |

Visiting Professor/Fellow/Scholar: Prof. N. C. Deka of the Department of Agronomy, Assam Agricultural University, Jorhat visited the department in November 2010 and gave some

classes for Introductory Agriculture and Agronomy offered in the 1st semester of MSc (RDAP) course.

Student Intake

| Enrolment Capacity: M. Sc.: 25 | Ph. D.: Variable | | | | | |
|--------------------------------|------------------|----|-----|------|--------|-------|
| Actual Admission | SC | ST | Gen | Male | Female | Total |
| M. Sc. | - | 24 | 1 | 7 | 18 | 25 |
| Ph. D. | - | 1 | 2 | 1 | 2 | 3 |

Degrees Awarded

| | SC | ST | Gen | Male | Female | Total |
|--------|----|----|-----|------|--------|-------|
| M. Sc. | - | 24 | - | 7 | 17 | 24 |

Courses Conducted

MSc.

Semester-I: General Aspects of Rural Development; Introductory Agriculture and Agronomy; Fundamentals of Horticulture; Introduction to Animal Husbandry and Poultry; Soil Conservation and Watershed Management; Insect Pests of Field and Horticultural Crops and Their Management. Semester-II: Rural Development Approaches, Programmes and Policies; Package of Practices for Field Crops; Plant Propagation and Nursery Management; Dairy and Livestock Development; Diseases of Field and Horticultural Crops and Their

Management; Organic Farming. Semester-III: Basic Statistics and Computer Application; Rural Development Organisations, Institutions and Administration; Production Technology of Fruits and Plantation Crops; Rural Development Planning and Project management; Commercial Floriculture and Landscaping; Dairy Farming and Rural Development; Economic Reforms and Rural Development. Semester-IV: Rural Marketing and Entrepreneurship Development; Research Methods; Agricultural Surveying and Levelling; Rural Credit and Micro-Finance; Production Technology of Vegetables and Spices; IEC and Rural Development; Post-Harvest management of Horticultural Crops;

Micro-Enterprise and Non-Farm Sector Development; Minor Horticultural Crops.

Study Tours/Field Trips of Students

As field trips constitute one of the integral parts of the PG syllabus of the department, the students were periodically taken by concerned faculty members and technical assistants on visits to nearby villages to interact with the beneficiaries of various government programmes and make assessment of the impact of various rural development programmes in different sectors.

Seminars/Conferences/Symposia/Workshops/Extension Programmes

Attended

Dr. D. C Kalita attended the 34th National Social Science Congress held at Gauhati University from 27 to 31 December and presented a paper on “Trends of Area, Production and Productivity of Potato in Nagaland”.

Dr. B. K. Mishra attended: (a) the national symposium on ‘Technology Management, Visioning and Up-scaling for Accelerating Livestock and Management’ organized by College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati from 11 to 13 November 2010 and presented a paper entitled “Scientific Dairy Farming: A Tool for Rural Development”; (b) international conference on ‘Managing Sustainable Development of Rural Economy and Agribusiness’ (ICONBHU 11) held at BHU, Varanasi from 21 to 23 January 2011 and presented a paper entitled “Private Dairy Farms: A Study of Selected Farms in Khanapara Area of Guwahati”; (c) the XXXIX Dairy Industry Conference on Dairying Path to Sustainability held from 4 to 6 February 2011 and presented a paper on “Use of Microwave Technology in Dairy and Food Industries”; (d) 13th Indian Agriculture and

Farmers Congress organized by Bio-Ved Society, Allahabad from 21 to 22 February 2011 and presented a paper entitled “A Review on Status and Culture of Women in Meghalaya”.

Dr. Binu Mathew attended the 7th International Pineapple Symposium at Johar Bahru, Malaysia on 13-14 July 2010 and presented two papers, viz, “Pineapple Production in Meghalaya (India): Indigenous Cultural Practices and Status” and “Induction of Flowering and Performance of Pineapple as Influenced by NAA and Ethrel (*Ananas comosus*. (L.) Merr)”.

Publications

Published in India

Mathew, B. and L. S. Pereira, 2010. Effect of *in situ* Rainwater Harvesting Techniques on Mandarin Orange Plants Grown in Garo Hills of Meghalaya. *Environment and Ecology*, 28(3b): 1975-78.

Research Projects

Ongoing

Village Knowledge Connectivity. Coordinator: Prof. S. C. Srivastava and sponsored by DRDA, West Garo Hills, Meghalaya.

Completed

1. Studies on Effect of *in situ* Rainwater Harvesting Technique on Field Establishment and Growth of Mandarin Orange and Guava Sapling in West Garo Hills of Meghalaya. Principal Investigator: Dr. Binu Mathew and Sponsored by University Grants Commission, New Delhi.
2. District Planning under Backward Regions Grant Fund. Principal Investigator: Prof. S. C. Srivastava and sponsored by National Institute of Rural Development, Hyderabad.
3. Comprehensive District Agricultural Planning for Garo Hills”. Principal

NEHU Annual Report 2010-2011

Investigator: Prof. S. C. Srivastava and sponsored by National Institute of Rural Development, Hyderabad.

Academic/Professional Collaboration

The department continued to have collaboration with (a) NIRD-Regional Centre, Guwahati and NIRD Headquarters, Hyderabad; (b) CAPART and Institute of Applied Manpower Research, New Delhi, (c) State Institute of Rural

Development (SIRD), Guwahati, and (d) ICAR Research Complex for Northeast Hill Region, Barapani.

Other Academic Activities

Dr. Binu Mathew attended the Refresher Course in Plant Diversity and Conservation conducted by UGC-Academic Staff College, NEHU from 16 March to 5 April 2011.

Chapter IV

SCHOOL OF HUMANITIES

Name of the Dean : Prof. Juanita War
Telephone : 0364-2723501 (office)
Email : jwarshil14@yahoo.co.in

The School of Humanities and the School of Education were bifurcated in 2009-10, with the former comprising

English (both Shillong and Tura campuses), Garo, Hindi, Khasi, Linguistics, and Philosophy departments.

Department of English

Name of the Head : Moon Moon Mazumdar
Telephone : 0364-2723503(O)/0364-2723513 (O)/ Mobile: 9436104897
Email : moonzip2002@yahoo.co.in

Thrust Areas

The thrust areas of the department are: British Literature, American Literature, Post Colonial Literature, New Literature in English, and Literature from the North-East.

Brief Statement of Academic Activities

During the year under report the department organized various events like poetry reading, film screening, writers' meet, lectures, theatre workshop and a national seminar on 'Translation, Transmission and Cultural Transactions'.

Faculty Profile

Professors : Prof. T.Ao, MA (Gauhati U), DTE (CIEFL), PhD (NEHU) (Retd in October 2010)
Prof. Esther Syiem, MA (Delhi U), MPhil and PhD (NEHU)

Associate Professors : Dr. M.M. Mazumdar, MA (NEHU), DDE (IGNOU), PhD (NEHU)
Dr. Mala Renganathan, MA (Madurai), MPhil (Pondicherry), PhD (Madurai U)
Dr. S. Bhattacharjee, MA, MPhil and PhD (NEHU)
Dr. Utpala G. Sewa, MA, MPhil and PhD (NEHU)
Dr. Kynpham Sing Nongkynrih, MA and PhD (NEHU)
Ms. N. Ganguly, MA (NEHU)
Mrs. N. Syiem, MA (NEHU), MPhil (Delhi U)

NEHU Annual Report 2010-2011

Assistant Professors : Mr. Ngangom Rabindra Singh, MA (NEHU)
 Mr. Langkumar K. War, MA (NEHU)
 Ms. Suranjana Choudhury, MA (Assam U), MPhil (Jadavpur U)

Student Intake

| | | | | | | |
|------------------------|----|---------------|-----|------|--------|-------|
| Enrolment capacity: 50 | | PhD: Variable | | | | |
| Actual Admission: 53 | SC | ST | Gen | Male | Female | Total |
| <i>MA</i> | - | 49 | 4 | 14 | 39 | 53 |

Degrees Awarded

| | | | | | | |
|-----------|----|----|-----|------|--------|-------|
| <i>MA</i> | SC | ST | Gen | Male | Female | Total |
| | - | 34 | 1 | 5 | 30 | 35 |

PhD

1. Sumita Dutta Kharkongor, A Study of Some Selected American Novels about Adolescence by J.D. Salinger, Saul Bellow, Sandra Cisneros and Carson Mc Cullers. Supervisor: Prof. T. Ao.
2. Ranjana Das, Critiquing the Post Colonial Construct: A re-reading of Chinua Achebe's Major Novels. Supervisor: Dr. Moon Moon Mazumdar.
3. Lanurenla, Speaking through Ancestors: Mothers and Daughters in Amy Tan's Novels. Supervisor: Prof. T. Ao.

Courses Conducted

M.A.

1st Semester: Poetry I, Fiction I, Drama I, Literary Theory & Criticism I, American Literature I, 2nd Semester: Poetry II, Fiction II, Drama II, Literary Theory & Criticism II, Commonwealth Literature (Option A), World Literature in Translation (Option B), 3rd Semester: Poetry III, Shakespeare I, Literary Theory & Criticism III, American Literature II, Indian Fiction in Translation (Option A), Women's Writing (Option B), 4th Semester: Fiction III, Drama III, Shakespeare

II, Literary Theory & Criticism IV, Environment & Indian Writing in English

MPhil

Research Methodology, Research Writing and Presentation. Optional: Contemporary Literary Criticism, Theory and Text, Contemporary World Poetry, the Literature of North-East, Multiculturalism in American Literature, Modern Canadian Drama, India in 20th Century Narratives: English Writings and Translations.

Seminars/Conferences/Workshops/Extension Programmes

Organised

1. Organised a National Writers Meet in collaboration with the Sahitya Akademi on 31st May 2010-2nd June 2010.
2. Organised a Drama Performance directed by Prof. Parasuram Ramamoorthi (Visiting Fellow to the Department) on 17th September 2010.
3. Dr. Moon Moon Mazumdar, Head, Department of English and Dr. S.K. Singh, Department of Linguistics, NEHU, Shillong organized a national seminar on 'Translation Transmission and Cultural Transactions' on 18-19 November 2010.

School of Humanities

4. Dr. Moon Moon Mazumdar, Head, Department of English and Dr. S.K. Singh, Department of Linguistics, NEHU, Shillong organized a regional workshop on 'Language Teaching and Phonetics' on 20 November 2010.
5. Dr. Kynpham Sing Nongkynrih in collaboration with Sahitya Akademi organised the "National Writers' Meet" on 1-3 June 2010 at the Science Auditorium, NEHU, Shillong.
6. Ms. Suranjana Choudhury was Secretary of the Organising Committee of the national seminar and workshop on 'Translation Studies in North-Eastern Hill University' organized by the departments of English and Linguistics, North-Eastern Hill University, Shillong from 18th to 20th November 2010.

Attended

| Name of the teacher | Title of the paper presented | Theme of the seminar/, conference etc | Organized by | Date and Venue |
|---------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Prof. Esther Syiem | Identity and Belonging in Transnational Setting: The Khasi Jaintia Setting in North East India | International Society for Folk Narrative Research | Interim Conference of the International Society for Folk Narrative Research, Shillong | 22-25 February 2011, NEHU, Shillong. |
| Dr. Moon Moon Mazumdar | Between the Lines: Tagore and the Northeast | International Seminar on 'Tagore at home in the World' | English Department of University of Calcutta, RTCHDS &UGC | 10-12 Feb. 2011 University of Calcutta, Alipore Campus |
| Dr. Mala Renganathan | Representation of Terror in Women's Writings: A Gender Perspective | Contemporary Women's Writing: New Texts, Approaches, and Technologies | Contemporary Women's Writing Network and University of San Diego | 7-9 July 2010 Hotel Hilton, San Diego |
| Dr. Sukalpa Bhattacharjee | Theorizing Tribal Literatures: A Postcolonial Perspective | National Seminar on Postcolonial Writings In Tribal Languages of India | Department of Khasi, NEHU | 1-3 of June 2010 Department of Khasi, NEHU, Shillong |
| | Representing Otherness | National Seminar on The Other and the Community: Philosophical reflections on Identities, Tribes and Worldviews | Department of Philosophy NEHU, Shillong, sponsored by ICPR New Delhi | Department of Philosophy NEHU, Shillong 18-20 November 2010 |

NEHU Annual Report 2010-2011

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|-----------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| | Representing Othemess | National Seminar on The Other and the Community: Philosophical reflections on Identities, Tribes and Worldviews | Department of Philosophy NEHU, Shillong, sponsored by ICPR New Delhi | Department of Philosophy NEHU, Shillong 18-20 November 2010 |
| | Possibilities of Interpretation and the 'Forked' Paths of Meaning | National Seminar on Language, Communication and Cultural Studies | English and Foreign Language University, Shillong and Balvant Parekh Centre for General Semantics and Other Human Sciences, Vadodhara | 27 October 2010 at Shillong. |
| | Recasting the 'Ethnic': Agency and Cultural Representation | National Seminar on Social Forces and Ethnic Conflicts in Northeast India | Department of Political Science, NEHU, Shillong and sponsored by ICSSR NERC and MAKIAIS, Kolkata | 10-12 March 2011 |
| Dr. Kynpham Sing Nongkynrih | Attended "Mountain Echoes Literary Festival 2010" and participated in poetry readings | Seminar on "Words as Arrows: Poetry and Archery" | Siyahi and the India-Bhutan Foundation in Thimphu, Bhutan | 17-20 May 2010 |
| | Attended a "Translation Workshop from English to Khasi" and delivered a lecture as a Resource Person | "Translation Workshop from English to Khasi" | IGNOU, New Delhi, | 27-29 September 2010 Shillong |
| | Attended a "Poetry Tour of Chennai" and read out self-composed poems. | "Poetry Tour of Chennai" | Prakriti | from 29-30 December 2010 |
| Mr. Ng. R. Singh | English Poetry of the Northeast | Friday Lecture Series | The English & Foreign Languages University, Shillong | 22 October 2010 The English & Foreign Languages University, Shillong |
| | Poetry Translation and Readings | Multilingual & Multimedia Performance | Literature Across Frontiers, Wales, UK and German Book Office, New Delhi. | 8-18 of December 2010 Pondicherry, Chennai and Pune |

School of Humanities

| | | | | |
|---------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|
| | Poetry of the Northeast & Poetry Readings | Writer-Residence in | Centre for English Studies, School of Languages, Literature & Culture Studies | 6-14 of February 2011 New Delhi |
| | Poetry Reading and lecture: Introduction to the Poetry of the Northeast | North-Eastern & Western Poetry Festival in Mumbai | Sahitya Akademi, New Delhi | 26-27 of February 2011 Mumbai |
| | Poetry in the Time of Terror | Delivered the Mumin Barkataki Memorial lecture | Mumin Barkataki Memorial Trust, Assam | 5 March 2011 Guwahati, Assam |
| Suranjana Choudhury | Violence Played out-Identifying the Lesser Players in Select Partition Narratives | International Comparative Literature Association of India Conference | Central University of Gujarat | 3-6 March, 2011 in Gandhinagar, Gujarat. |

Publications

Published in India

Ao, T., E. Syiem, M. M. Majumdar, M. Renganathan, S. Bhattacharjee, U. G. Sewa, K. S. Nongkynrih, N. Ganguly, N. Syiem, Ng. R. Singh, L. K. War and S. Choudhury (eds). *NEHU Anthology of Prose and Drama for BA Pass Course*. New Delhi: CUP Foundation Books, 2010.

_____. *NEHU Anthology of Short Plays and Biographies for BA Pass, B.Com, BBA, BCA, B.Sc., and B.Sc Home Science*. New Delhi: Orient BlackSwan, 2010.

_____. *The Looking Glass: NEHU Anthology of Poetry for BA Pass and Major*. New Delhi: CUP Foundation Books, 2010.

_____. *Time's Inscriptions: NEHU Anthology for Literature*. New Delhi: Orient BlackSwan, 2010.

Bhattacharjee, Sukalpa (2010), IGNOU Module entitled "Folk Culture Of India" in *Folk Culture and Tradition Of India* (OVA-011), IGNOU New Delhi. pp 19-27.

Bhattacharjee, Sukalpa (2010), Book Review Article on H. Srikanth's *Indigenous Peoples in*

Liberal Democratic States: a Comparative Study of Conflict and Accommodation in India and Canada, (Bauu Press, Boulder Canada, 2010) in *Man and Society* (A Journal Of North-East Studies), Vol VII Summer 2010,169-73.

Bhattacharjee, Sukalpa (2011), "Narrative Constructions of Identity and the Sylheti Experience" in Tilottoma Misra ed. *The Oxford Anthology of Writings from North-East India* (Poetry and Essays) New Delhi, Oxford University Press, 245-58.

Bhattacharjee, Sukalpa (2011), "Treasure Trove" (Translation of Shekhar Das' "Koshagar" in Bengali) in Tilottoma Misra ed. *The Oxford Anthology of Writings from North-East India* (Fiction) New Delhi, Oxford University Press, 151-65.

Nongkynrih, Kynpham Sing (ed.). 2011. *Ka Shad Suk Mynsiem Centenary Souvenir*. Shillong: Seng Khasi Seng Kmie.

Nongkynrih, Kynpham Sing. 2010. *Ka Mother Teresa: Ka Kmie ki Kam Isynei*. Shillong: Gautam Publications.

Nongkynrih, Kynpham Sing. *A Head of White*

Hair, Diwali Night, & Ri Pnar (Poems). *Muse India* (Online Journal, summer 2010).

Nongkynrih, Kynpham Sing. *Japih: Scrumptious Meat or Prophetic Frogs?* (Short Story). *The Oxford Anthology of Writings from North-East India: Fiction*. Ed. Tilottoma Misra. New Delhi: OUP, 2011, 206-08.

Nongkynrih, Kynpham Sing. The Colours of Truth, The Ancient Rocks of Cherra, A Day in Sohra & A Farewell Letter of Cherries (Poems). *The Oxford Anthology of Writings from North-East India: Poetry*. Ed. Tilottoma Misra. New Delhi: OUP, 2011, 66-69.

Nongkynrih, Kynpham Sing. The Fungus & Sundori (Poems). *Wasafiri* (no. 65, spring 2011): 15.

Nongkynrih, Kynpham Sing. The Ghost (Poem). *Writing Love: An Anthology of Indian-English Poetry*. Ed. Ashmi Aluwalia. New Delhi: Rupa, 2010, 38.

Sewa, U.G (2010), *Memory as Vision – A Study of the Poetry of Thomas Hardy*. New Delhi: Aryan Books.

Syiem, Esther, Social Identity and the Liminal Character of the Folk: A Study in the Khasi Context and a poem entitled, Retelling Nam's Tale in *The Oxford Anthology of Writings from North-East India Poetry and Essays* ed. Tilottoma Misra New Delhi: Oxford University Press, 2011.

Syiem, Esther. Identity and Belonging in a Transnational Setting: The Khasi Jaintia Setting in North East India in *Protocol Journal of Translation, Creative and Critical Writings* Vol. IV No. 1&2 Spring and Winter 2010.

Syiem, Esther. *Ka Jingkynmaw Burom ia I Prof. R.S Lyngdoh in Ka Thwet Jingstad* (Quest for Knowledge) Vol. 11 No.1 October 2010.

Syiem, Esther. *Offfollies and frailties of wit and wisdom*. Kolkata: Writers Workshop, 2010.

Syiem, Esther. "A Terrifying Glimpse From a Passing Taxi" and "To Bemsynda". *Indian Literature* No. 257, May/June 2010.

Published Abroad

Choudhury, Suranjana. Secular Families: Communal Violence and the Question of Women's Honour in Select Partition Narratives in *Contemporary Discourse: A Peer Reviewed International Journal*, Vol.2 (Issue-1):130-135.

Nongkynrih, Kynpham Sing. *Laitkynsew* (Poem). In *Our Own Words: A Generation Defining Itself Volume 8* (Anthology). Ed. Marlow Peerse Weaver. Cary, USA: MW Enterprise, 2010. 82-84.

Renganathan, Mala. (2010) *Maria Irene Fornes' Theatre: A Study*. Illinois: CG Publishers.

Honours/Awards/Recognition

Dr. Mala Renganathan was awarded the OUCIP (Osmania University Centre for International Programmes) Post-Doctoral Fellowship for 2010-11.

Dr. Kynpham Sing Nongkynrih's drama, *Ki Miet ka Jingriem* (Nights of Terror), is being serialised by DDK, Shillong.

Other Academic Activities

Prof. Esther Syiem

1. Read out poems at National Writers' Meet organised by Indian Literature Sahitya Akademi in collaboration with NEHU, Shillong from 1st June -3rd June 2010.
2. Delivered a lecture on American Literature at Women's College, Shillong on 16th August 2010.
3. Chaired sessions at Interim Conference of the International Society for Folk Narrative Research, Shillong on February 22nd-25th 2011.

Dr. Mala Renganathan

1. Chaired a session of the *Third Biennial International Conference* on

School of Humanities

- 'Contemporary Women's Writing: New Texts, Approaches, and Technologies' organized by Contemporary Women's Writing Network and University of San Diego from 7 to 9 July, 2010.
2. Participated in the Expert Committee Meeting of Certificate and Diploma Course Programme in Folk Theatre and Performance of North East India, held by the IGNOU Institute of Vocational Education & Training (IIVET), Shillong in collaboration with School of Performing and Visual Arts as Vocational Education, (SOPVA), IGNOU, New Delhi, from 5 to 6 April, 2010 and also from 1 to 2 December 2010 in IGNOU, Shillong.
 3. Delivered a talk on "Performing Arts Today" and conducted a Children's Theatre Workshop at the Omna Ancient Arts Center, Queens, New York, on 3 July 2010.
 4. Delivered the Key Note Address at the One Day Seminar on 'Literature: Quest for Selfhood' organized by the Department of English, St. Edmunds College, Shillong on 7 September 2010.
 5. Convened the National Theatre Workshop in collaboration with ICSSR-NERC, Shillong from 24 August to 17 September 2010.
 6. Coordinated the play "We Were ONE" directed by Parasuram Ramamoorthi performed in NEHU, Shillong on 17 September 2010 as part of the National Theatre Workshop "Drama in Performance".
 7. Coordinated the Departmental Programme "Interactive Session with Parasuram Ramamoorthi," (Visiting Fellow of the Department and Poet / Playwright / Director, Velvi Theatre Group, Madurai) on 20 September, 2010).
 8. Delivered two plenary lectures on "Reflections of 9/11 Terror in American Literature: A Gender Perspective" as a Post-Doctoral Fellow at OUCIP, Hyderabad, on 17 and 26 February 2011.
 9. Participated in the Fulbright Alumnae Meet organized by the Fulbright Alumni Association, North East Chapter and sponsored by USIEF and American Center, Kolkata, at IIT Guwahati on 13 November 2010.
 10. Participated as a NEHU representative in the Fulbright Mentoring Workshop "Building partnerships" sponsored by Public Affairs Section, US Embassy, India and Hosted by USIEF, February 10-11, 2011, Kolkata.
- Dr. Sukalpa Bhattacharjee
1. Delivered four lectures entitled "Self and Autobiography" as Resource Person at the UGC Sponsored Refresher Course in Burdwan University organized by the departments of English and Bengali on "Autobiographies, Memoirs and Diaries" on the 1st and 2nd July 2010.
 2. Delivered two Invited Lectures entitled "Gendered Constructions of Identity in Theory, Politics and Narratives" at Tezpur University at the Two Day National Workshop on Contemporary Gender Issues organized by the Equal Opportunity Cell of Tezpur University on the 17th and 18th September 2010.
 3. Chaired an Academic Session in the Interim Conference of the International Society for Folk Narrative Research, organized by the Department of Cultural and Creative Studies NEHU on 24th February 2011.

NEHU Annual Report 2010-2011

4. Acted as Resource Person at the National Workshop of the 2nd ICSSR Post Doctoral Initiation Programme on 17-18 March 2011.

Dr. Kynpham Sing Nongkynrih

1. Judged the “Second Meghalaya Poetry Competition 2010”.
2. Gave a lecture at the “Felicitation Programme of Pioneers in Khasi Literature”

organised by the Department of Khasi on 29 September 2010.

3. Gave a lecture at the “Second Meghalaya Poetry Competition and Poetry Reading Festival” on 10 October.
5. Attended a meeting of the “Expert Committee on Translation” to oversee the translation of IGNOU Course Materials/Texts.

Department of English

[Tura]

Name of the Head : Dr. Jyotirmoy Prodhani

Telephone : 03651-223628 (o)

Email : rajaprodhani@gmail.com

Thrust Areas

Cultural Studies and Translation, Dalit and Ethnic Literature, Indian and Postcolonial Literature, Narrative Studies, Women and Gender Discourse.

Brief Statement of Academic Activities

The department introduced Students Seminar to imbibe research oriented interest among the MA students. A research journal *Protocol: A journal for translation, creative and critical writings* was published by the department. Scholars and professionals from the areas of

mass media, graphic design, anthropology, and film studies were invited to the department to present their talks and interact with the students. Poets’ meet and workshop on creative and critical writing, seminars and workshops were organized regularly. Regular film and audio – visual show were held to give supplementary exposure to the students. Jointly organised a Refresher Course with Garo Department on ‘English and Comparative Literatures’ English & Garo) with Dr. Angela W. Ingty as Course Coordinator and Dr. Jacqueline Marak as Co-coordinator.

Faculty Profile

Professor : Dr. Sujata Gurudev, M.A./M.Phil./Ph.D.(NEHU)

Associate Professor : Dr. Jyotirmoy Prodhani, M.A. (Pune Univ.) Ph.D. (NEHU)

Assistant Professors : Mr. Raj Shekhar Thakur, M.A. (Patna University)

Dr. Angela R. W. Ingty, M.A. (Gauhati Univ), M.Phil (Madras Christian College), PGDTE (CIEFL, Shillong), Ph.D. (NEHU)

Mrs. Ramona M. Sangma, M. A. (NEHU)

Dr. Jova C. Marak M.A., Ph. D. (NEHU, Tura Campus)

Student Intake

| | | | | | | |
|------------------------|----|----|-----|-----|------|--------|
| Enrolment capacity: 33 | | | | | | |
| Actual Admission | SC | ST | Gen | OBC | Male | Female |
| MA | - | 27 | 3 | - | 9 | 21 |
| PhD | 1 | 6 | 2 | 1 | 2 | 8 |

Courses Conducted

MA

Semester I: Poetry I, Fiction I, Drama I, Literary Theory and Criticism I, American Literature I, Semester II: Poetry II, Fiction II Drama II, Literary Theory and Criticism II, Commonwealth Literature (Option A), World Literature in Translation (Option B), Semester III: Poetry III, Shakespeare I, Literary Theory and Criticism III, American Literature II Indian Fiction in Translation (Option A), Women’s Writing (Option B), Semester IV: Fiction III, Drama III, Literary Theory and Criticism IV, environment and Indian Writing

Study Tours/Field Trips of Students

Mrs. Jova C. Marak was the Teacher-in-Charge of III Semester students who visited Sikkim, Darjeeling and Gangtok.

Seminars/Conferences/Symposia/Workshop/Extension Programmes

Attended

Dr. J. Prodhani attended the national Seminar on ‘Society and Literature: Interdisciplinary Transactions’ organised by Department of English, NEHU, Shillong in collaboration with ICSSRNERC and IAS, Shimla and held at ICSSRNERC, Shillong on 16, 17 & 18 March, 2010. Title of the paper: ‘Pratima Barua Pandey: Queen of the Lost Lore’. He attended the national seminar on ‘Tagore in Translation: The North East India Perspective’, organised by Department of Cultural Studies and Sahitya Akademi at Tezpur University on 4 and 5 March 2011. Title of the paper: “Tagore and Rajbanshi

Literatue”. Was invited as Resource Person to national seminar on ‘The Study of Indian folklore: An Interdisciplinary Study of North Eastern Folk Tradition’, organised by Chilarai College in collaboration with UGC at Golakganj, Assam, on 3-4 September 2010. Title of the paper presented: “Folklore and the Mass Media: Experiences from a Border Village of Assam”. Chaired a session of the national seminar on ‘Creation Myths in Different North East Oral Languages’ organised by Achik Literary Society in collaboration with Sahitya Akademi at Tura on 7-8 October 2010. Paper presented: “Rajbanshi Creation Myth”.

Prof. Sujata Gurudev attended the national conference on ‘Status of Achik Women’ organized by Government of Meghalaya and Department of Arts and Culture on 10 & 11 September 2011. Title of the paper presented “Thoughts of a Non Achik Woman”.

Dr. Angela Ingty presented a paper at the 31st Session of the North East India History Association (NEIHA) hosted by the Don Bosco College, Tura from the 14th to 16th February 2011 on the topic “Loan Words in the Garo Language.”

Mrs. Ramona M. Sangma presented a paper on “Patriarchy and Elements of Patriarchy in Garo Matrilineal Society” at the Annual General Conference Seminar organized by the A’chik Literature Society, Tura, Meghalaya, on 10-11 September 2010.

Dr. Jova C. Marak presented a paper on “Violence against Women in A’chik Society” at the seminar on ‘Status of A’chik Women’,

organized by the A'chik Literature Society, Tura Campus, Meghalaya on 10-11 September 2010.

Publications

Published in India

Marak, Jova ch. *From Literary Naturalism to Hopeful Humanism*. Eastern Book House, Guwahati, 2010.

Marak, Jova ch. Human Sacrifice and Head Hunting among The Garos of Meghalaya, *Journal of Indian Folkloristics*, Vol X, Nos 1 & 2, January - December 2008 (N.S) pp. 51-57.

Marak, Jova ch. Violence against Women in A'chik Society. *Literary Endeavour*, Vol. I, No. 4, January 2011, pp. 128-131.

Prodhani, J. Arrogating the Postmodern: Off Broadway and Sam Shepard, *Protocol:JTCCW*, Vol, IV, No. 1 & 2, Winter & Spring, 2010.

Prodhani, J. "The Opera" Translation of Assamese short story by Sheelabhadra. *Asia Writes* (E-journal), <http://www.asiawrites.org>. Saturday, January 22, 2011.

Prodhani, J. Salience of Emerging Sounds: Rajbanshi Poetry and the Idioms of Identity, *Bodhidroom*. Ed. Nirmal Koch. Dhubri: Borkona Kali Dham Centenary Celebration Committee, 2011.

Prodhani, J. "The Circle" Translation of Assamese short story by Sheelabhadra. *Asia Writes* (E-journal). <http://www.asiawrites.org>. Tuesday, April 19, 2011.

Department of Garo

[Tura]

Teacher-in-Charge : Dr. Jacqueline R. Marak
Telephone : 03651-220016
Email : marakjr@rediffmail.com

Thrust Areas

Folklore and related genre, Garo Fictional Studies, Linguistics in relation to Garo Language, Cultural Studies and Archaic Representations in Garo Literature

Brief Statement of Academic Activities

The department organized workshops, extension lectures, and interactive sessions with visiting scholars and authors.

Faculty Profile

Assistant Professors : Jacqueline R. Marak, M.Ed. (Utkal) Ph.D. (NEHU)
Fameline K. Marak, M.A. (NEHU) Ph.D. (NEHU)
D.Ch. Marak, M.A., Ph.D. (NEHU)

Student Intake

| | | | |
|---------------------|----------------------|-------------|-------|
| Enrolment capacity: | MA:33, PhD: Variable | | |
| Actual Admission: | ST (Male) | ST (Female) | Total |
| M.A. | 13 | 20 | 33 |

Degree Awarded

| | | | |
|------|-----------|-------------|-------|
| M.A. | ST (Male) | ST (Female) | Total |
| | 5 | 5 | 10 |

Courses Conducted

MA

Semester I: History of Garo Language and Literature, Poetry-I, Sacrificial Rites & Invocations, Drama-I Linguistics-I: Basic Concepts, Definitions & Scope of Linguistics, Garo Morphology and Semantics, Environmental Studies, Semester II: Fiction-I, Literature in Translation, Prose-I, Linguistics-II: Phonetics and Phonology, Linguistics-III Tibeto-Burman Languages of the North-East (classification and Bodo group of Languages), Semester III: Literary Theory & Criticism, Epic as a Literary Genre, Drama-II,

Semester IV: Poetry-II: Poetry from 1881 to 1944, Folklore-II Garo Folktales, Folksongs, Proverbs and Sayings, Tragedy as a Literary Genre, Indian Literature in English, Modern Poetry.

Study Tour/Field Trips of Students

Dr. Dokatchi Ch. Marak took 3rd semester students for a study tour to Gangtok & Kolkata from 5th to 15th January 2011. The students of 2nd Semester were taken for a field study to Balpakram and Siju, South Garo Hills from 23rd to 26th March 2011. Mr. Benister Ch. Marak of the department accompanied the students.

Seminars/Conferences/Symposia/Workshops/Extension Programmes

Organized

1. The department conducted a national seminar on 'Folklore and A'chik Literature' on 7-8 October 2010 in collaboration with Sahitya Akademi, Regional office.
2. Conducted a regional seminar on 'Creation Myths in different North-Eastern Languages' on 15th and 16th November 2010 in collaboration with North-East Centre for Oral Literature in which distinguished scholars from outside i.e. West Bengal,

Assam, Nagaland, Mizoram, Sikkim and Tripura participated.

3. Hosted the second phase of Garo-Bengali Translation Workshop on 19th and 20th February 2011 organized by Sahitya Akademi Regional Office, Kolkata in which scholars from West Bengal came to participate.
4. On 3-23 March, 2011 the department in collaboration with English Department conducted Refresher Course for Lecturers in Garo and English on the theme 'English and Comparative Literatures - English and Garo'.

Attended

Dr. Jacqueline R. Marak presented a paper on "Origin of A'king and Nokma" at a seminar on 'Nokmaship in Garo Hills' organized by the Nokma Council, Garo Hills on 6th April 2010 at Tura. She also presented a paper on "Status of A.chik Nokma" at the seminar on 'Status of Achik Women' organized by the Achik Literature Society at Tura on 10-11 September 2010.

Dr. Fameline K Marak presented a paper on "A.ko Daka Chiko Dina" at the seminar on 'Creation Myths' on 7-8 October 2010 at Tura organized by Department of Garo in collaboration with North East Centre for Oral Literature Sahitya Akademi, Agartala. She also presented a paper on "Karitango Stugipa" at a seminar on 'Status of A.chik Women' organized by A.chik Literature Society at Tura on 10-11 September 2010. Presented a paper on "Types of Nokmas and the Functions" at the seminar on 'Nokmaship in Garo Hills' organized by the Nokma Council, Garo Hills on 6-7 April 2010.

Dr. Dokatchi Marak presented a paper on "A'chik Me'chikrangni Songsalo Janggi Tanganio Namdatpatna Jakku De'ani" at the

NEHU Annual Report 2010-2011

seminar on 'Status of A'chik Women' organised by A'chik Literature Society on 10-11 September 2010 at Tura.

Funds Received

Received Rs. 35,000 from NEHU, Shillong for organizing a seminar on 'Creation Myths' on 7th and 8th October 2010.

Other Academic Activities

Dr. Jacqueline R. Marak chaired the second

session of the Second Meghalaya Poetry Festival 2010 (Khasi, Garo & English) on 1st November 2010 in Shillong.

Dr. Fameline K. Marak participated in the second phase of Garo to Bengali Translation Workshop organized by Sahitya Akademi, Regional office, Kolkata in collaboration with the Department of Garo, NEHU, Tura Campus on 19-20 February 2011.

Department of Hindi

Name of Head : Dr. S.K. Sharma (Up to July 2010)
Dr. M.P. Pandey (From August 2010)

Telephone : 0364-2723514(O)

Email : mppnehu@yahoo.co.in

Thrust Areas

Modern Hindi Literature and Comparative Study.

Brief Statement of Academic activities

The department organized: (1) a three day national seminar on 'Agyeya: Punarpath ki Aavashyakata' in collaboration with the Central

Institute of Hindi, Regional Centre, Shillong, on 3-5 March 2010 at NEHU, Shillong, and (2) a two day Hindi seminar and workshop was organized with the help of the Central Institute of Hindi, Regional Centre, Shillong on 'Purvottar Bharat mein Hindi ka Sanskritik Mahatwa' on 24-25 March 2011.

Faculty Profile

Associate Professors : Dr. D.K. Choubey, M.A., Ph.D (Manipur U)
Dr. S.K. Sharma, M.A., M.Phil, Ph.D (Delhi U)
Dr. M.P. Pandey, M.A., Ph.D (Kashi Vidyapeeth, Varanasi)

Assistant Professor : Dr. B.P. Tripathi, M.A., M.Phil, Ph.D (JNU)

Student Intake

Enrolment capacity: M.A.: 50, M. Phil.: 10, Ph.D.: Variable

Actual Admission

| M.A. | SC | ST | GEN | Male | Female | From Meghalaya | outside Meghalaya |
|---------|----|----|-----|------|--------|----------------|-------------------|
| | 1 | 15 | 8 | 1 | 23 | 10 | 14 |
| M.Phil. | SC | ST | GEN | Male | Female | From Meghalaya | outside Meghalaya |
| | 1 | 2 | - | 1 | 2 | 3 | - |

School of Humanities

| | | | | | | | |
|-------------|----|----|-----|------|--------|----------------|-------------------|
| <i>Ph.D</i> | SC | ST | GEN | Male | Female | From Meghalaya | outside Meghalaya |
| | - | 2 | - | 1 | 2 | 3 | - |

Degrees Awarded

| | SC | ST | Gen | Male | Female | Total |
|---------|----|----|-----|------|--------|-------|
| MA | | 12 | 12 | 9 | 15 | 24 |
| M. Phil | | 2 | 1 | - | 3 | 3 |
| Ph.D | | - | 1 | 1 | - | 1 |

M. Phil:

1. Kakoli Gogoi, "Hindi aur Asomiya ke Sanskar geeton ka Tulnatmak Adhyayan". Supervisor: Dr. S.K. Sharma.
2. Tashi Tsomu, "Hindi aur Monpa ki Lok-Kathaon ka Adhyayan". Supervisor: Dr. S.K. Sharma.
3. Shainy K. Sangma, "Hindi aur Garo Mulyaparak Lik-Kathaon ka Adhyayan". Supervisor: Dr. D.K. Choubey.

Ph. D.

1. Rajeev Kumar, "Aadhunick Hindi Kavya mein Gandhivadi Chetana (Dwivedi Yug Se Prayogvad Tak)". Supervisor: Dr. S.K. Sharma.

Courses Conducted

M.A.

1st Semester: Hindi Bhasha evam Uska Vikash, Bhartiya Kavyashastra-I, Aadhunik Kavya (Chhayavad tak) evam Paryavaran Parak Kavya, Hindi Gadya Sahitya-I (Natak evam Nibandh), Aadikalin Hindi Sahitya ka Itihas, 2nd Semester: Bhaktikalin Kavya, Bhartya Kavyashastra-II, Hindi Gadya Sahitya-II (Upanyas evam Kahani), Aadikalin Kavya, Prayojanmoolak Hindi, 3rd Semester: Hindi Sahitya ka Madhayakal, Ritikaleen Kavya, Hindi Natak, Anuvad-Sidhant evam Vyawhar, Lok Sahitya, 4th Semester: Hindi Sahitya ka Aadhunikkal, Chhayavadottar Kavya, Paschatya Sahityalochana evam Hindi Aalochana, Bhasha Vigyan, Hindi Nibandh.

Seminars/Conferences/Symposia/Extension Programmes

Attended

Dr. D.K. Choubey attended the international conference on 'Comparative Liturature World Culture and Language' at Andhra University Vishakhapatnam, organised by Department of Hindi and SAP (UGC) on 26-28 February 2011. Title of the paper presented: "Tulnatmak Adhyayan aur Asomiya-Hindi Ramkavya".

He attended the national seminar on 'Agyeya: Punarpath ki Avashyakta' organized by the Central Institute of Hindi, Regional Centre, Shillong and Department of Hindi on 3-5 March 2011 at NEHU, Shillong. Paper presented: "Agaya ke Kavya mein Proyogsheelta". He attended the seminar on 'Purvottar Bharat mein Hindi ka Sanskritik Mahatwa' organized by Kendrya Hindi Sansthan and Department of Hindi in Shillong on 25th March 2011. Title of the paper presented: "Purvottar ki Bahubhasik Sanskriti aur Hindi ki Bhumika".

Dr. M.P. Pandey was invited as Guest of Honour in a two day workshop organized by the National Institute of Technical Teacher's Training & Research on 11-12 March 2011 and delivered two lectures on "Takniki evm Abhiyatriki Sansthanon mein Hindi ka Prayog Kitna Uchit" and "Samakaleen Kavita: Vishesh Sandarbh Bhagwat Rawat" on 11-12 March 2011. He participated in a Parisamvad on 'Nagri Lipi evm Bhartiya Bhashayen' organized by Sahitya Academy, Ravindra Bhawan, New Delhi on 29 December 2010 and presented a paper on

“Purvotter ki Bhashayen aur Nagri Lipi ka Prashana”. He was invited as Guest of Honour in a seminar on ‘Centenary year of Bhagwat Saran Upadhyay’ on 8th January 2011 organized by Rahul Sankrityayan Srijan Peeth, Mau, and delivered a lecture on “Bhagawat Saran Upadhyay”. He attended a three day national seminar organized by Uttar Pradesh Bhasha Sansthan, Lucknow, Kendriya Hindi Sansthan, Agra & Vidyashri Nyas, Varanasi on 12-14 January 2011 in Varanasi and presented a paper on “Aadhunik Hindi Kavita: Vartman aur Bhavishya”.

Shri. B.P. Tripathi attended the national seminar on ‘Agyaya: Punarpath ki Avashakta’ organised by the Central Institute of Hindi, Regional Centre, Shillong and Department of Hindi on 3-5 March 2011 at NEHU, Shillong. Paper presented: “Agyaya’s Poetry”. He attended the seminar on ‘Purvottar Bharat mein Hindi ka Sanskritik Mahatwa’ organised by Kendriya Hindi Sansthan and Department of Hindi in Shillong on 25th March 2011. Paper presented: “Hindi as Market Language”.

Publications

Published in India

Choubey, D.K. 2010-11, Arunachal ke Adivasi aur Unka Lok Sahitya, *Bhasha*, Issue VI, July-August, 220-23.

Choubey, D.K. 2010-11, Lokayan (Lok Rupon Par Ekagra) Issue X, January-December, *Samanvay Purvottar*, 331-33.

Choubey, D.K. 2010-11, Mithak aur Mukti Bodh, Issue IX October-December, *Samonvoy Purvottar*, 165-66.

Choubey, D.K., 2010, Review of *Bhakti Andolan aur Rashtriya Ekta Seminar Research Papers in Ramakhyan Parampara aur Assm ke Shankardev*, August, 229-36.

Choubey, D.K., 2010, Review of *Samikshan* by Dibrugarh University, *Seminar Research Papers on Adhunik Hindi Sahitya mein Patrakarita ka Yogdan*, Issue of April, 239-49.

Choubey, D.K., 2010, Agyaya ke Kavya mein Proyogsheelta, *Bhasha*, Issue 236, November-December, 70-80

Choubey, D.K., 2010, Asom mein Vashnav Mat evam Vaishnav Sahitya ki Vikas Yatra, *Shodh Disha*, Issue II, July to September, 226-37.

Choubey, D.K., 2010, The Tradition of the Ramayan in the Mizo Folk Life, *The Marginal Voice*, Vol. I, 27-34.

Choubey, D.K., 2010-11, ‘Vidyapati-Kavya ka Sanskritik Adhyayan, *Samanvay Purvottar*, Issue VIII, July to September, 172-74.

Pandey, M.P. 2011, ‘Kavita ki Nai Jameen ki Talash’ *Pustak Varta*, Mahatma Gandhi Antarrastriya Hindi Vishwavidyalaya, Vardha, January-February, 26-28.

Pandey, M.P. 2011, ‘Mizo Janjati ka Samajik-Sanskritik Paridrishya’, *Samanvaya Purvottar*, January-March, 61-67.

Pandey, M.P., 2010, *Chukte Nahin Hain Shabda*. Yugantar Prakashan, Chapara.

Pandey, M.P., 2010, *Kavyabimb aur Hindi Navgeet*. Yugantar Prakashan, Chapara.

Tripathi, B.P. 2010-11, ‘Abhivyakti ki Bechain Jid’, *Alochana*, April-June, 115-16.

Tripathi, B.P. 2010-11, ‘Samkaleen Kavita ke Anivarya Adhyaya’, *Pragatisheel Vasudha*, July- September, 273-78.

Tripathi, B.P. 2010-11, ‘Tatke Vartmaan ke Jagrook Sarjak’, *Alochana*, April-June, 221-23.

Projects

Ongoing

“Mahapursh Sankardev aur Madhavdev ke Vyaktitwa-Krititwa ki Samksha evam unki

School of Humanities

Kritiyon ka Lipyantran Sahit Anuvad". Principal Investigator: Dr. D. K. Choubey, Amount: Rs.2,11,000 by UGC, New Delhi.

Awards

Dr. B.P. Tripathi was awarded PhD by the Department of Hindi, JNU, New Delhi on the topic "Samkaleen Hindi Kavita main Abhivyakt Samaj aur Sanskriti" January 2011.

Other Academic Activities

Dr. D.K. Choubey

1. Delivered lectures on implementation of official language in Central Government Offices in Atomic Energy Department on 8th November 2010.
2. Inspected Voluntary Hindi Organisations and Institutes as panel member of committee appointed by Central Hindi Directorate, Government of India, Delhi from 15th to 18th December 2010. Attended the workshop on Official Language Noting and Drafting by Hindi Cell, NEHU on 16.9.2010.
3. Attended the workshop for preparation of

Garo-Hindi-English Dictionary at Guwahati by Hindi Cell, NEHU from 25.5.2010 to 27.5.2010.

4. Attended the UGC NET workshop on evaluation for NET papers at NET Bureau, South Campus, Delhi University from 28th March to 2nd April 2011.

Dr. M. P. Pandey

- (i) Was invited as Visiting Fellow to the Department of Hindi, Tripura University, Agartala to deliver lectures to the M.A. (Hindi) students from 4th February to 14th February 2011.
- (ii) Coordinated a 3 day national seminar on 'Agyaya: Punarpath ki Awashyakata' organized by Kendriya Hindi Sansthan and Department of Hindi, NEHU, Shillong from 3rd March to 5th March 2011.
- (iii) Coordinated a 2 day Hindi Seminar and Workshop in Department of Hindi organized with the help of Kendriya Hindi Sansthan on 'Purvottar Bharat mein Hindi ka Sanskritik Mahatwa' from 24th to 25th March 2011.

Department of Khasi

Name of the Head : Prof. Streamlet Dkhar
Telephone : 0364-2723301(o)
Email : s.dkhar@rediffmail.com

Thrust Areas

The thrust areas of the department include Khasi Literature in all genres, 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 a national seminar on 'Post Colonial Writings in Tribal Languages of India' from 1st to 3rd June 2010.

Faculty Profile

- Professors : B. War, M.A. (NEHU), M.A. (Delhi), M.Phil (Delhi) Ph.D (London)
 M.B. Jyrwa, MA.(Gau), MEd, TEO (University of Manchester), PhD (NEHU)
 S. Dkhar, M.A. (NEHU), M.Phil (NEHU), Ph.D (NEHU)
 A. Kharmalki, M.A. (NEHU), M.A. (Delhi), M.Phil (NEHU) Ph.D (NEHU)
- Associate Professor : D.R.L. Nonglait, M.A., M.Phil (NEHU), PGDTE (CIEFL), Ph.D (NEHU)
- Assistant Professors : B. Bairo, M.A. (NEHU)
 M.M. Khyndeit, M.A. (NEHU) M.PHIL (GU)

Students Intake

| | | | | | | |
|----------------------------------------------------|----|----|-----|------|--------|-------|
| Enrolment capacity: M.A: 52. M.Phil: 10. Ph.D: 18. | | | | | | |
| Actual Admission | SC | ST | Gen | Male | Female | Total |
| M.A. | - | 52 | - | 9 | 43 | 52 |

Degrees Awarded

| | | | | | | |
|--------|----|----|-----|------|--------|-------|
| | SC | ST | Gen | Male | Female | Total |
| M.A. | - | 44 | - | 9 | 35 | 44 |
| M.Phil | - | 2 | - | - | 2 | 2 |
| Ph.D | - | 1 | - | 1 | - | 1 |

M.Phil

- Ms. Trocylin Chyne, “Ka Kyiad; Ka Thynriew jong Ka Raibi bad Bam Kruin kumba paw Ha ka Sawangka Ki San Ngut Baiap Jong u F.M.Pugh bad ka Sawangka Haba Ka Kupar Jot Ka Dawa jong U Anthony Jala”. Supervisor: Prof. S. Dkhar.
- Ms. Banylla Syiemlieh, “Ka Sur Bynñiaw Ha Ka Synjaw Ummat U Jerome Diengdoh”. Supervisor: Prof. M.B. Jyrwa.

Ph.D

- Mr. Ioanis War, “The Paradigms of Conflict in the Works of H.W. Sten with Special reference to his Novels and Drama”. Supervisor: Prof. S. Dkhar.

Courses Conducted

M.A.

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

Semester II: Khasi Linguistics II, Khasi Drama II, Literary Theory and Criticism, Literature in Translation – I and Khasi Poetry II.
 Semester III: Khasi Linguistics III, Khasi Drama III, Culture in Khasi Literature I, Khasi Fiction – II and Literature in Translation – II.
 Semester IV: Linguistics IV, Khasi Fiction III, Environmental Awareness and Poetry III, Culture in Khasi Literature – II and Khasi Drama IV.

M.Phil

Folkloristics, Methodology of Research, Ideas and Criticism.

Study Tours/Field Trips of Students

Field trip on 10th April 2010 to Dainthlen, East Khasi Hills District, under the charge of Mr. M.M. Khyndeit. Field trip in December 2010 to Pungkung, West Khasi Hills District, under the charge of Mr. M.M. Khyndeit.

**Seminars/Conferences/Symposia/
Workshops/Extension Programmes**

Organised

The department organized a national seminar on 'Post Colonial Writings in Tribal Languages of India' from 1st to 3rd June 2010.

Attended

Prof. B. War chaired the inaugural function and presented a paper on "Some aspects of Khasi, an Austro-Asiatic Language" at the national seminar on 'Tribal Literature' and the 4th Conference of the Tribal Literary Forum of India organized by the Department of North-East Studies, Gauhati University on the 2nd and 4th February 2011.

Prof. S. Dkhar acted as a Resource Person at the international seminar on 'Indian Literature Today' and presented a paper on "Indian Literature Today with special reference to Northeast" held on 17th May 2010 at Turin International Book Fair, Turin Italy, organized by Punto India, Salone International Del Libro, Turin, Italy. She also acted as Resource Person and presented a paper on "Ka saiñ Pyrkhat halor ka Hok Longtraï ki nongthoh bad ki nongpynmih kot" at the two day seminar on 'Intellectual Property Rights' organized by St. Anthony's College Shillong on 28-29 October 2010 at St. Anthony's Auditorium. Presented a paper on "Changing Status of Women in the Northeast with special reference to the Khasis of Meghalaya" at the national symposium held on 28th December 2010 at the Academic Staff College, Gauhati University organized by the Women's Studies Centre, Gauhati University as part of the Social Science Congress of Gauhati University. Acted as Resource person at the international seminar on 'Challenges of Multilingualism' and presented a paper on "Challenges of Multilingualism: An Indian experience" held on 13th May 2010 at Turin International Book Fair,

Turin Italy, organized by Punto India, Salone International Del Libro, Turin, Italy.

Prof. A. Kharmalki acted as a Resource Person at the national seminar organized by the Department of Khasi on 'Post Colonial Writings in Tribal Languages of India' on 1-3 June 2010. Paper presented: "Ka Nam in Exile: An Analysis". She also acted as a Resource Person at the Fourth National Tribal Literary Forum of India organized by Guines, Gauhati University, Assam on 2-4 February 2011 and presented a paper on "Figuring The Villages: A Study of I.M. Simon's Short Stories".

Dr. D.R.L. Nonglait presented a paper on "Ka Bri U Hynñiew Trep (The Khasi land) in Khasi Oral Tradition" during the 4th National Seminar on Tribal Literary Forum of India organized by Gauhati University Institute North East Studies, Guwahati on 2-4 February 2011.

M.M. Khymdeit presented a paper entitled "Tiim: A silent resistance against the colonialism in the context of Khasi folk game" at the national seminar on 'Post Colonial Writings in Tribal Languages of India' organized by the Department of Khasi, NEHU, Shillong on 1-3 June 2010. Presented a paper entitled "Interpretation of dreams into practice: A study in the context of Khasi folk gambling" at the international seminar on 'Tradition, Identity and Diversity: The Future of Indigenous Culture in a Globalised World' conducted by the Centre of Indigenous Culture, Central University of Jharkhand, Ranchi, India on 1-2 February 2011. Presented a paper entitled "Inanimate Gender in Khasi Language: A Gender of Matrilineal Society" at the 4th Annual Conference of Tribal Literary Forum in India and national seminar on 'North East India as Diverse Tribal Language Belt' organized by Gauhati University Institute of North East Studies, Gauhati University, Assam on 2-4 February 2011.

Publications

Published in India

Bairo, B. "Ka Byrngia ha Ka Por San Baje" in the journal *Ka Thwet Jingstad (Quest for Knowledge) Vol.II, No.1*, October 2010, Published by the Society for Khasi Studies, Shillong, 59-60.

Bairo, B. Book Review on *U Basan Ka Kastarbrij* in the journal *Ka Thwet Jingstad (Quest for Knowledge) Vol.II, No.1*, October 2010, Published by the Society for Khasi Studies, Shillong, 84-86.

Dkhar,S. "U Rabindranath Tagore: U Khlur Ba Īai Sah Nam Ka Ri India", published in *The Creation*, commemorating 150th Birth Anniversary of Rabindranath Tagore, Shillong, 2010, 50-53.

Dkhar,S. Hindi translation "Hey Pavitra Vatika (Ka 'Law Kyntang)" published in a Hindi Journal, *Samanvaya Poorvottar*, Kendriya Hindi Sansthaan, Agra, Vol. 8, 2010, 25.

Dkhar,S. Hindi translation "Ka Likai" published in a Hindi Journal, *Samanvaya Poorvottar*, Kendriya Hindi Sansthaan, Agra, Vol. 9, 2010, 14-17.

Dkhar,S. Hindi Translation "Ka Saia Nongum" published in a Hindi Journal, *Samanvaya Poorvottar*, Kendriya Hindi Sansthaan, Agra, Vol. 10, 2011, 154-57.

Dkhar,S. "Challenges of Multilingual Culture: Indian Experience" published in *Ka Thwet Jingstad*, Vol. 11 No. 1 October 2010, A Journal of the Society for Khasi Studies, 23-25.

Dkhar,S. "Khasi Sahitya ka Sankshipt Itihas" (A Short History of Khasi Literature), published in a Hindi Journal, *Samanvaya Poorvottar*, Kendriya Hindi Sansthaan, Agra, Vol. 7, 2010, 127-30.

Dkhar,S. "Meri Maa Se Ek Nivedan" (A Plea to my Mother) published in a Hindi Journal,

Samanvaya Poorvottar, Kendriya Hindi Sansthaan, Agra, Vol. 7, 2010, 51.

Jyrwa, M.B. "U Samla Ba Bitar" in *Ka Thwet Jingstad (Quest for Knowledge) Vol II, No.1*, October, 2010, 15-22.

Khyndeit, M.M. "Ki Snap ka fantasy ha ka Khana U Don Putit jong u D.S.Khongdup" in the journal *Ka Thwet Jingstad (Quest for Knowledge) Vol.II, No.1*, October, 2010 published by The Society for Khasi Studies, Shillong, 61-67.

Nonglait, D.R.L. "Ka Phang Pdeng ha ka Literashor" in *Ka Thwet Jingstad*, vol II, No.1 October, 2010, published by The Society for Khasi Studies, Shillong, 34-38.

Nonglait, D.R.L. Book Chapters "Ka Shongkha Shongman Khyannah ba Ka Jingnang Jingstad" and "Ka Shongkha Shongman Khyannah ha ka Jingadei bad ka Riti Ka Dustur Tynrai" in *Ka Shongkha Shongman Khyannah*, published by the Khasi Jaintia Presbyterian Synod Sepngi, in February 2011, 19-32.

War, B. "On Khasi Dialectology" in *Ka Thwet Jingstad (Quest for Knowledge) Vol II, No.1*, October, 2010, 4-14.

Honours/Awards/Recognition

Prof. Streamlet Dkhar was nominated as a member of the UGC National Consultative Committee for Women Managers in Higher Education.

Other Academic Activities

Prof. B. War chaired one session of the seminar on "Ka Kolshor Khasi: Ka Iktiar u Shynrang bad ka bhah ka Kynthei Khasi" organized by the Department of Khasi, Synod College, Shillong on the 30th July 2010. Chaired a session of the national seminar & workshop on 'Translation, Transmission and Cultural Transaction' organized by the Department of

English and the Department of Linguistics, NEHU on 18-20 November 2010. Chaired a session of the interim conference of the International Society for Folk Narrative Research, Shillong organized by the Department of Cultural and Creative Studies, NEHU on 23rd February 2011.

Prof. Streamlet Dkhar participated in the Poetry Reading session and read out poems in Khasi and Italian entitled “Kynthei” (Donna), “Ka Kyrpad ia I Mei” (Una Supplica a Mia Madre), “Ka Jingshisha” La Verita’), “ U Inghkong Shyllangmat” (Traditore), “Balei’ (Perche’?) held on 15-16 May 2010 at Turin International Book Fair, Turin Italy, organized by Punto India, Salone International Del Libro, Turin, Italy. Acted as a chairperson at the inaugural function of the national seminar on ‘Post Colonial Writings in Tribal Languages’ held on 1st June 2010, organized by the Department of Khasi in collaboration with ICSSR and MCAB, Shillong. Read poems at the National Writers’ Meet held on 3rd June 2010 at NEHU, organized by Sahitya Akademi, New Delhi in collaboration with Department of English, NEHU, Shillong. Read a poem titled “Woman” at the “Monsoon Evening of Poetry” organized by the Akhil Bhartiya Marwari Mahila Sammelan held on 10th July 2010 at Sri Aurobindo Cultural Centre, Shillong. Delivered a speech on “Bhanubhakta Acharya A Poet laureate of the Nepali” and presented a poem “A Tribute to Bhanubhakta” on the occasion of the 196 Birthday Celebration of Bhanubhakta Acharya held at BBS College Auditorium Shillong on 13th July 14, 2010. Read four poems at the Literary Day of the Khasi Language organized by Khasi Author’s Society, held on 11th September, 2010 at Mission Community Hall, Shillong. Read two poems in Khasi and English at Hindi Day, organized by Kendriya Hindi Sansthan held on 23rd September

2010 at the Regional office, Kendriya Hindi Sansthan, Shillong. Spoke on “Translation of the Text: Approaches, Problems, Strategies and Solutions” held on 27th – 29th September, 2010 at Don Bosco Youth Centre, Shillong organized by School of Translation Studies and Training North East Centre for Research and Development IGNOU. Presented a Keynote Address at the national seminar on ‘Violence against women in Northeast India’ and chaired two technical sessions held on 12th and 13th November 2010 at Lanka Mahavidyalaya College Auditorium, organized by Department of Political Science, Mahavidyalaya College, Lanka, Nagaon, District, Assam. Presented 4 folk poems entitled “Ka Likai, Ka Suna Pani, Ka Saia Nongum and U Tngam Bad ka Wanduh” and also presented the translated version of Hindi in the All India Poet’s Meet held at Jalianwala Bagh, Amritsar on 18th and 19th November 2010. Delivered a speech on “The contributions of Soso Tham to Khasi Literature” on the occasion of the 170 year death anniversary of Soso Tham held on 13th December 2010, at the bust of Soso Tham near the Department of Khasi, organized by the Department of Khasi, NEHU. Chaired a session of the Interim Conference of the International Society for Folk Narrative Research held on 24th February 2011 at NEHU, Shillong. Delivered a speech on “The importance of Hindi in the Schools of Northeast from the grass root level” and presented Khasi and English poems at Sarvabhasha Kavi Gosthi held on 26 and 27 February 2011 at Kendriya Hindi Sansthan, Lachumiere, Shillong, organized by Kendriya Hindi Nideshalaya, New Delhi in collaboration with Poorvottar Hindi Akademi, Shillong. Presented short story entitled “Measles” and read out three poems the national seminar on ‘Nagri Lipi Sanghosti and Hasya Kavita Paad’ held on 13th March 2011 at Kendriya Hindi

NEHU Annual Report 2010-2011

Sansthan, organized by Nagri Lipi Parishad New Delhi in collaboration with Poorvotar Hindi Akademi, Shillong. Attended as Guest of Honour at the valedictory function on Purvottar Bharat Mein Hindi Ka Sanskritik Mahatva organized by the Central Institute of Hindi, Shillong and Department of Hindi NEHU, held on 25th March 2011.

Prof. A. Kharmalki acted as a Chairperson at the Fourth Annual Conference of Tribal Literary Forum of India and National Seminar on 'North East India as Diverse Tribal Belt' organized by Gauhati University Institute of North East Studies, Gauhati University, Assam, on 2-4 February 2011.

Ms. B. Bairo and Mr. M.M. Khyndeit organized a programme entitled "Programme on Soso Tham" on 13th December 2010.

Dr. D.R.L. Nonglait chaired the Panel Discussion

on "Ka Jingpynneh bad Jingpynroi ia ka Ktien Khasi" organized by the Khasi Students' Union on 9th April 2010 at NEHU, Shillong. Chaired a session of the seminar on "Ka Kolshor Khasi: Ka Iktiar u Shynrang bad ka Bhah ka Kynthei Khasi" organized by Khasi Department, Synod College, on 3rd July, 2010 at Synod College, Shillong.

M.M. Khyndeit was Assistant Coordinator of national seminar on 'Post Colonial Writings in Tribal Languages of India' organized by the Department of Khasi, NEHU, Shillong on 1-3 June, 2010. Participated in the national workshop and one day seminar on 'Alfred Korzpski and his Impact on Language, Communication and Cultural Studies' organized by Balvant Parekh Centre for General Semantics and Other Human Sciences and the English and Foreign Languages University, Shillong Campus on 25-27 October 2010.

Department of Linguistics

Name of the Head : Dr. Shailendra K. Singh
Telephone : (0364) 272-3310 (o), 272-3311
Email : tosksingh@rediffmail.com

Thrust Areas

The thrust areas of the department are Tibeto-

Burman and Austro-Asiatic languages/dialects of the North-East of India.

Faculty Profile

Professor : Juanita War, M.A (Gauhati); M.A (Delhi) Ph.D (Edinburgh)
Associate Professors : Shailendra Kumar Singh, M.A (Delhi); M.Phil, Ph.D (Hyderabad)
Umarani Pappuswamy, MA/M.Phil (Bharathiar U), Ph.D (University of Mysore)
Assistant Professors : Saralin A. Lyngdoh, M.A. (NEHU), M.Phil (Delhi)
Barika Khyriem, M.A. (NEHU); M.Phil (Delhi)
Bijoy L. Dhanwar, M.A. (NEHU), M. Phil. (Hyderabad)

Student Intake

| | | | | | |
|--------------------------------------------|----|----|-----|------|--------|
| Enrollment Capacity: MA: 30, PhD: Variable | | | | | |
| Actual Admission: | SC | ST | GEN | Male | Female |
| MA | - | 31 | 1 | 13 | 19 |

School of Humanities

| | | | | | |
|-----|---|---|---|---|---|
| PhD | - | 3 | 1 | 1 | 3 |
|-----|---|---|---|---|---|

Degrees Awarded

| | SC | ST | Gen | Male | Female | Total |
|------|----|----|-----|------|--------|-------|
| M.A. | - | 26 | 2 | 4 | 24 | 28 |

PhD

| | | |
|----------------------|--------------------------------------------------------------------|-------------------|
| Dr. Karung Tarun Kom | A description of the Kom speech with special emphasis on variation | Prof. Juanita War |
|----------------------|--------------------------------------------------------------------|-------------------|

Courses Conducted

MA

Semester I: Introduction to Linguistics; Morphology; Syntax 1; Phonetics and Phonology, Semester II: Semantics (Part 1); Linguistics and Environment (Part 2); Sociolinguistics; Lexicology and Lexicography, Syntax II and Language, Technology and 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-I, North-east India and Language Ideology. Semester IV: Structure of Tibeto-Burman/Austro-Asiatic Languages; Field Methods (Dissertation); Language Education; Translation Theory and Practice, Readings in Linguistics-II.

Study Tours/Field Trips of Students

Study tour for the III Semester 2010 students: 11th January to 20th January 2011 to CDAC, Pune and Annamalai University, Chidambaram. Teachers-in-charge: Dr. S.K. Singh and Ms. Barika Khyriem.

Seminars/ Conferences / Workshop/ Extension Programmes

Organized

1. National workshop on 'Mother-Tongue in North East India with Special Reference to Meghalaya', Co-ordinators: Dr. Shailendra

Kumar Singh and Dr. Henry Lamin, Department of Anthropology, NEHU, Shillong, August 5-7, 2010.

2. Workshop on 'Tone in Tibeto-Burman Languages of India' sponsored by the Central Institute of Indian Languages, Mysore, and held at NEHU, Shillong on October 4-13, 2011. Coordinator: Dr. U. Pappaswamy, NEHU and Dr. G.D.P. sastry, CIIL, Mysore.
3. National Symposium on Spatial and Temporal Expressions in Natural Languages, held at NEHU, Shillong, October 14-15, 2011.
4. National Seminar on Translation, Transaction, and Cultural Transmission held at NEHU, Shillong on 18-20 November 2010. Co-ordinators: Dr. Shailendra Kumar Singh and Dr. M.M. Mazumdar, Department of English, NEHU Shillong.
5. Workshop on Natural Language Processing and Machine Translation System. Co-ordinator: Dr. Shailendra Kumar Singh, held at CDAC, Pune, 14-19 January 2011.
6. UPE Workshop on Austro-Asiatic Languages (Kynton Phanram dialect) held on 15-16 March 2011. Coordinator: Prof. Juanita War.

Attended

Prof. Juanita War presented a paper on "Language Endangerment and Linguistics

Rights with special reference to Khasi” (with S.A. Lyngdoh) at the seminar on Post Colonial Writing in Tribal Languages of India organized by the Department of Khasi, NEHU on 3rd June 2010. Presented a paper on “Language Variation and the concept of Standard Variety” at the three day national workshop on Mother Tongue in North East India with Special Reference to Meghalaya, organized by the Department of Anthropology, NEHU, Shillong. August 5-7, 2010. Presented a paper on “Reading Strategies” at the seminar on History of Reading organized by the Department of English in collaboration with CUP, India, held in NEHU, Shillong on 18 August 2010. Presented a paper on “In between Time and Space: the Concept of Spatial and Temporal Relations in Khasi” (with S.A. Lyngdoh) at the national symposium on Spatial and Temporal Expressions, organized by the Department of Linguistics in collaboration with CIIL, Mysore, at NEHU, October 14-15, 2010.

Shailendra Kumar Singh presented a paper on “Mother Tongue: Opening Pandora Box” at the national workshop on Mother Tongues in North East India, held on 5-7 August 2010. Presented a paper on “On Education, Multilingualism and Language Planning” at the national workshop on Minority Education in Nagaland. NCERT, Shillong on 20-24 September 2010. Presented a paper on “Translation in New World Order” at the national seminar and workshop on Translation and Transmission, NEHU, Shillong on 18-20 November 2010. Presented a paper on “Purvotar me hindi: 21 vi shadi: ka yatharth” at the national seminar on purvotar me hindi ka saskritik mahatv, Department of Hindi, NEHU on 24-25 March 2011. Presented a paper on “New Linguistic World Order and Language endangerment: Theoretical Preambles” at the national seminar on Endangered Languages in India, Centre for advanced study in linguistics,

Annamalai University on 21-22 January 2011.

Umarani Pappuswamy presented a paper “Towards Building Computational Lexicons for North-East Indian Languages: Some Issues and challenges” at the international conference on Recent Advances in Linguistics, Bharathiar University, 15-16 December 2010. Presented a paper on “Temporal Reasoning in Tamil” at the national symposium on Spatial and Temporal Expressions in Natural Languages, NEHU, Shillong, October 14-15, 2010. Presented a paper on “Modality and Negation in Classical Tamil” at the World Classical Tamil Conference organized by the Chief Minister of Tamilnadu, held at Coimbatore, 23–27 June 2010.

Saralin A. Lyngdoh presented a paper on “Language Endangerment and Linguistics Rights with special reference to Khasi” (with Prof. Juanita War) at the seminar on Post Colonial Writing in Tribal Languages of India, organized by the Department of Khasi, NEHU on 3rd June 2010. Presented a paper “Explaining Languages: the Limitations” at the three day national workshop on Mother Tongue in North East India with Special Reference to Meghalaya, organized by the Department of Anthropology, NEHU, Shillong, August 5-7, 2010. Presented a paper titled “In between Time and Space: the Concept of Spatial and Temporal Relations in Khasi” (with Prof. Juanita War), at the national symposium on Spatial and Temporal Expressions, organized by the Department of Linguistics in collaboration with CIIL, Mysore, at NEHU, October 14-15, 2010.

Publications

Singh, Shailendra K. 2010. *anuvad aur navvimarso ki dhum*. <http://www.hinditech.in>. 19 May 2010.

Singh, Shailendra K. 2010. *ravindra nath tagore ki anuva:d dristi. Ravindra asmarika*, 81-86.

Singh, Shailendra K. 2010. Towards Branding Indian Linguistics: A Destination Next. In Intiaz Hasnain and Shreesh Choudhary, *Problematizing Language Studies: Cultural Theoretical and Applied Perspectives (Essays in Honour of Rama Kant Agnihotri)*. New Delhi: Aakar Books.

Singh, Shailendra K. 2011. New Linguistic World Order and Language endangerment: Theoretical Preambles. In M.Ganesan (ed), *Endangered Languages in India*. Annamalai Nagar: Centre for advanced study in linguistics, Annamalai University.

Research Projects

Ongoing

Research in Tibeto- Burman and Austro- Asiatic Languages in NE India-Phase I". UPE Project Areas Studies – II in collaboration with the Department of Khasi, NEHU. PI: Prof. Juanita War. Total Amount: Rs 30 Lakhs.

Other Academic Activities

Prof. J. War served as a Resource Person at the national seminar on Translation, Transaction, and Cultural Transmission jointly organized by the departments of Linguistics and English, NEHU, Shillong.

Dr. S.K Singh gave a talk at the Refresher Course on Language Teaching, Ranchi University, Ranchi, August-September 2010.

Dr. Umarani Pappuswamy was Associate Editor of *South Asian Language Review* <http://journalsalr.com> and edited the issues of January and June 2010. She also provided consultancy services to the Khasi Dialect Survey undertaken by the Central Institute of Indian Languages, Mysore. She was a Resource Person at the workshop on Tone in Tibeto-Burman Languages of India, held at NEHU, Shillong on October 4-13, 2011.

Saralin Lyngdoh was Organizing Secretary for the national seminar on Translation,

Transaction, and Cultural Transmission jointly organized by the departments of Linguistics and English, NEHU, Shillong, 18-20 November 2010. She was a Resource Person for Language Skills on Training Program organized by DIET, Nongstoin, West Khasi Hills, October 2010.

Barika Khyriem was Teacher In-charge for the Study Tour for IV semester students to Pune and Chidambaram. Attended the Orientation Programme-cum-Refresher Course on Folkloristic and Semiotics, held at NEHU, Shillong, June 26-July 16, 2010. Spoke on "Tone with reference to Tibeto-Burman Languages in India" at the workshop on Tone in Tibeto-Burman Languages of India, held at NEHU, Shillong during October 4-13, 2011. Attended the national symposium on Spatial and Temporal Expressions, organized by the Department of Linguistics in collaboration with CIIL, Mysore, at NEHU, October 14-15, 2010. Was a Resource Person at the national seminar on Translation, Transaction, and Cultural Transmission jointly organized by the Departments of Linguistics and English, NEHU, Shillong during 18-20 November 2010. Also conducted a crash-course on Phonology with Prof. J.V. Sastry for the seminar participants. Attended the workshop on Natural Language Processing and Machine Translation System at CDAC. Pune during 14-19 January 2011. Spoke on "The Phonological Characteristics of Austro-Asiatic Languages" at the UPE Workshop on Austro-Asiatic Languages, organized by the Department of Linguistics, NEHU, Shillong, 15-16 March 2011.

Bijay Dhanwar was a Resource Person at the national seminar on Translation, Transaction, and Cultural Transmission jointly organized by the departments of Linguistics and English, NEHU, Shillong. He was also a Resource Person for the UPE Workshop on Austro-Asiatic Languages, held at NEHU, Shillong during March 2011.

Department of Philosophy

Name of the Head : Prof. Vanlalnghak
Telephone : (O)2723552(M), 9436309905
Email : Philodeptnehu@yahoo.co.in

Thrust Areas

Philosophy of Culture with special reference to the tribal thought of the North-Eastern region.

Brief Statement of Academic Activities

The faculty 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 published a good number of papers and books pertaining to their research work.

Faculty Profile

Professors : Dr. C R Agera, M.A.(Madras), Ph.D.(Delhi)(Retired on 30th September, 2010)
 Dr. Jagat Pal, M.A.(Allahabad), Ph.D.(IIT Kanpur)
 Dr. Binod Kumar Agarwala, M.A., M.Phil,(Delhi), Ph.D. (Lucknow)
 Dr. Vanlalnghak, M.A.(NEHU), Ph.D.(IIT Kanpur)

Associate Professors : Mr. N. Parthasarathy, M.A.(SPGD), M.Phil,(Madras)(On study leave)
 Dr. Xavier P Mao, MA.(NEHU), MPhil.(Delhi), MLet.(Sydney) PhD(NEHU)
 Dr. Prasenjit Biswas, M.A., Ph.D.(NEHU)
 Dr. Laxminanrayan Lenka, M.A.(Utkal), M.Phil., Ph.D (Hyderabad)

Assistant Professors : Dr. E R Tongper, M.A. M. Phil., Ph.D.(NEHU)
 Dr. Basil Pohlong, M.A., Ph.D.(NEHU)
 Mr. Uttam A Sharma, M.A.(Manipur)

Student Intake

| Enrolment Capacity: MA: 52 | | | Ph.D.: Variable | | | |
|----------------------------|----|----|-----------------|------|--------|-------|
| Actual Admission: MA | | | | | | |
| | SC | ST | Gen | Male | Female | Total |
| | - | 36 | 6 | 17 | 25 | 42 |
| Ph.D: | | | | | | |
| | SC | ST | Gen | Male | Female | Total |
| | - | 5 | 2 | 5 | 2 | 7 |

Degrees Awarded

| MA: | SC | ST | Gen | Male | Female | Total |
|-----|----|----|-----|------|--------|-------|
| | - | 20 | 04 | 08 | 16 | 24 |

Ph.D:

1. Skim S. Khongliam, "Gordon and Mawrie on Khasi Religion: A Philosophical Critique". Supervisor: Prof. Vanlalnghak.
2. Pearlycia Gathphoh, "Richard Rorty and the Postmodern Conception of Truth: A Critical

Study". Supervisor: Prof. B.K. Agarwala.

- Grace Darling, "Zeliangrong Culture and Religion: A Philosophical Study". Supervisor: Prof. Vanlalnghak

Courses Conducted

M.A:

Indian Metaphysics, Western Metaphysics, Symbolic Logic, Philosophy of Religion, Indian Philosophy of Language-I, Ethics & Environment, Indian Epistemology, Western Epistemology, Indian Moral Philosophy, Indian Philosophy of Language-II, Philosophy of Social Science, Phenomenology & Existentialism, Philosophy of Post-Modernism, Analytic Philosophy, Contemporary Philosophy of Religion, Tribal Thought and Culture, Modernism & Responses, Philosophy of Culture, Philosophy of Post-Modernism-II, Western Moral Philosophy, Applied Ethics, Philosophy of Wittgenstein.

Seminar/Conference/Workshop/Extension Programmes

Organized

- Prof. Vanlalnghak organized a national seminar on "The Others and the Community: Philosophical Reflections on Identities, Tribes and Worldviews" sponsored by Indian Council of Philosophical Research, New Delhi, on 18-19 November, 2010, at NEHU, Shillong.
- Dr. B. Pohlong organized ICPR Lectures on the theme "Indian Materialism" in the Department of Philosophy, NEHU, on 6-7 April 2010.

Attended

Prof. Jagat Pal presented a paper on "Analytic Approach to Understanding Tribal Worldviews" at the national workshop on Methodology for Studying Tribal Worldviews,

organized by ICSSR-NERC at NEHU Campus, Shillong on 30-31 October 2010. Presented a paper on "The Idea of Community Identity" at the ICPR sponsored national seminar on The Other and Community: Philosophical Reflections on Identities, Tribes and Worldviews, organized by the Department of Philosophy, NEHU, Shillong, 18-20 November 2010. Paper on "Conflict of Culture, Secularism and National Integration" at the ICPR sponsored national seminar on Values in Indian Culture and National Reconstruction, organized by the Department of Philosophy, Gauhati University, Guwahati from 2nd to 4th December 2010. Presented a paper titled "Ambedkar's concept of Social Justice and Reservation Policy" at the national seminar organized by Centre for Ambedkar Study affiliated to Department of Philosophy, North Bengal University, Darjeeling, 9th -10th December 2010. Presented a paper titled "Social Integration: A Conceptual Analysis", ICPR sponsored national seminar on Philosophy for Social Integration, organized by the Department of Philosophy, Gauhati University, Guwahati from 28th - 30th March 2011.

Prof. B K Agarwala presented a paper titled "Identity Politics and Economic Development of North-East: A Different Perspective", national seminar on The Other and the Community: Philosophical Reflection on Identities, Tribes and Worldviews, 18-20 November, 2010, Department of Philosophy, NEHU, Shillong. Presented a paper titled "On the Nature of Understanding Worldview of Other: A Fusion of Horizons", workshop on Methodology for Philosophical Study of Tribal Worldviews in the Context of North East India, 30-31 October 2010, ICSSR-NERC, NEHU, Shillong.

Dr. X P Mao presented a paper titled "Tribal Philosophy" at ICPR sponsored national seminar on The Other and the Community:

Philosophical Reflection on Identities, Tribes and Worldviews, 18-20 November 2010, Department of Philosophy, NEHU, Shillong. Presented a paper titled "A Critical Evaluation of Kierkegaard's individual", 85th session of the Indian Philosophical Congress, Gauhati University, October, 26-27, 2010. Presented a paper titled "Greed Versus Need", international seminar on Environment and Green Movement, 2-5 June, 2010, Leksand, Sweden. Presented a paper titled "Naga Integration" at Ukohmul, Manipur, December 15-16, 2010.

Dr. Prasenjit Biswas presented a paper titled "Look East Policy: A Critical Perspective", Jadavpur Association of International Relations and NERC-ICSSR, Shillong, 9th April, 2010. Presented a paper titled "Plunder of National Resources: Indian's Northeast in the Global Context", Jadavpur Association of International Relations and NERC-ICSSR, Shillong, 10th April, 2010. Presented a paper titled "Transition(s) to Postmodern Philosophy", 23rd July, 2010, Centre for Philosophy, Jawaharlal Nehru University, New Delhi. Presented a paper titled "Recognizing Religious Pluralism: Beyond Diversity and Difference", at international Workshop on Religion and Diversity, 25th -27th September, 2010, the Department of Philosophy, University of Ottawa, Ottawa, Canada. Presented a paper titled "Time, Language and Being" at the national seminar on "Alfred Korzybski and his Impact on Language, Communication and Culture", 27th October 2010, The English and Foreign Language University, Shillong.

Presented a paper titled "Philosophy as Anthropocentrism: Language, Life and Aporia", national seminar on The Other and the Community, 19th -20th November, 2010, Department of Philosophy and ICPR, New Delhi held at NEHU, Shillong. Presented a paper titled

"Beyond Classroom Philosophy: The Question of Other", World Philosophy Day, 29th November, 2010, Centre for Philosophy, Jawaharlal Nehru University, New Delhi. Presented a paper titled "Nations-from-below, Federalism and the Identity-Politics: The Case of India's Northeast", 21-22 December, 2010, B. N Seal College, UGC, Koochbehar, West Bengal. Presented a paper titled "Dialetheia and Logic of Sense" at the national workshop on Logic, Department of Philosophy, Belur Mahavidyalaya, Kolkata, 5th February, 2011. Presented a paper titled "The Abyss of Nationalism: In Search of a Proper Place for Identity Struggles on India's Northeast", 4-5 March, 2010, "Tagore in translation: The Northeast Perspective", Department of Cultural Studies, Tezpur University, Tezpur. Presented a paper titled "Language and the Necessary fallibility of Meaning: A Phenomenological Excursus through Heidegger, Derrida and Agamben", 7-8 March 2011, UGC-SAP, Department of Philosophy, North Bengal University, Siliguri.

Dr. L. Lenka presented a paper titled "On Grice's Analysis of Meaning", national seminar on Linguistic Representation: The Road Ahead, organized by the Department of Philosophy, University of Hyderabad, Hyderabad, 5-7 January, 2011.

Dr. Basil Pohlong presented a paper titled "Ecological Insights from Traditional Khasi Religion", ICPR sponsored seminar on "Methodology and Worldviews of Tribes of North East India", organized by Prof. Sujata Miri at ICSSR NERC, NEHU on 29-30 November, 2010. Presented a paper titled "Self and Other: A Khasi Perspective", ICPR sponsored national seminar on the Other and the Community, organized by the Department of Philosophy, NEHU, Shillong between 18-20 November 2010. Presented a

paper titled “Is Logic Universal: Logic and Scientific Method”, 85th Session of the Indian Philosophical Congress, Department of Philosophy, Gauhati University, October, 26-27, 2010.

Publications

Published in India

Agarwala, B. K. (2010) “The Greek Reversal of Justice: An Interpretation of the Philosophy of the Age of Sophists”, in Abha Singh (Ed.) *Morality and Social Justice*, Decent Books, New Delhi, 2010, pp.80-133.

Agarwala, B. K. What is the Mandate of North-Eastern Hill University? *The NEHU Journal*, Vol. VIII (Issue No.1):pp. 95-106, January, 2010.

Agarwala, B.K. Absolutism of Science in NEHU: The Claim of Humanities. *The NEHU Journal*, Vol. VIII (Issue No.2), July 2010, pp.101-121.

Agarwala, B.K. Fiscal Sociology of States in the North-East India: A Theory of the Rentier Economy and External Rent Curse. *Man and Society: Journal of North-East Studies*, Vol. VIII, pp.61-103, Summer 2010.

Agera, C. R. Truth of Faith and Reason Discovery through Dialogue. *Mission Today*, Vol. XIII (Issue No1): pp.65-74, January-March, 2011.

Agera, C.R. Christian faith: Truth and Tolerance: A Study of Ratzinger’s Phenomenology of Religion. *Mission Today*, Vol. 12 (Issue No.3): pp.196-213, 2009.

Agera, C.R. Christianity and World Religions: Ratzinger’s Phenomenology of Religions, *Mission*, Vol.16 (Issue No.2): pp.219-245, 2009.

Agera, C.R. Ethics, a Social Construction: A Study in Rorty’s Post-modernism, *Suvidya: Journal of Philosophy and Religion*, Vol. 4 (Issue 1): pp.41-56, 2010.

Agera, C.R. Human Rights and Civil Religion. *Indian Theological Journal*, Vol. 3 (Issue No.2):

pp. 25-51, 2009.

Biswas, P. (2010), *Beyond the Trappings of the Ethnic: Ethics and the Political*. Thingjam Kishen Foundation, Imphal.

Biswas, P. (2011) “The sense of Self: Ka Rngiew, Tlawngaihna and the Art of Not Being Governed”, in Provesh Jung (compiler), *Self and the Other*, HSS, IITB, Mumbai, pp.99-123.

Biswas, P. (2011), “Encounters in the Peace Process: The Moral Economy of Counter-Insurgency”, in Wasbir Hussain (ed.) *Peace Tools and Conflict Nuances in India’s Northeast*, CDPS, Guwahati, pp.31-53.

Biswas, P. Book Review: *Ethnonationalism in India: A Reader*, edited by Sanjib Baruah, OUP, New Delhi, 2010. *Man and Society*, Vol. VII: pp.154-58, 2010.

Biswas, P. Book Review: *University at the Crossroads* by André Béteille, OUP, New Delhi, 2010. *Man and Society*, Vol. VII: 138-43, winter, 2010.

Biswas, P. Pang-Sau or Redeeming India’s Northeast from Impoverished Constitutionalisms. *Eastern Quarterly*, Vol.6 (Issue III): pp.95-105, 2010.

Lenka, L. (2011), “Skepticism and Dretske’s Zebra” in Prajit K Basu and S. G. Kulkarni (Eds.) *Epistemology, Science and Cognition*, Decent Books, New Delhi, 2011, pp.37-51.

Mao, X.P. Thought and Action: *The Dialogue*, Vol. 12(Issue No1): pp.142-146, July-September, 2010.

Mao, X. P. 2011. *Virtues and Morality*, New Delhi: Concept publishing Company.

Pal, J. (2010) “Buddhist Doctrine of Pancasila” in Sauravpran Goswami (Ed.) *Dimensicess of Philosophy: Tradition and Modernity*, Publication Cell, Department of Philosophy, Gauhati University, Guwahati, 2010.

Pal, J. (2010) "Knowing and Communication" in Sauravpran Goswami (Ed.) *Of Knowing, Freedom and Reason*, Publication Cell, Department of Philosophy, Gauhati University, Guwahati, 2010.

Pal, J. "Has Jain Ethics Succeeded in Reconciling Ethical Universalism and relativism" in Debika Saha & Lazimkanta Padhi (Eds.) *Moral Language*, North Eastern Book Centre, New Delhi, 2010, pp.15-29.

Pal, J. 2010, Ed. *Human Rights & Development: Issue and Challenges*, New Delhi: Serial Publication.

Pal, J. Editorial. *International Journal of Jurisprudence and Philosophy of Law*, Vol. III (Issue, No.1-2): pp.iii-iv, January-December, 2009.

Pal, J. The Idea of Right, *International Journal of Jurisprudence and Philosophy of Law*, Vol. III (Issue No, 1-2): pp.1-8, January-December, 2009.

Other Academic Activities

Prof. Jagat Pal delivered 6 lectures on "Social and Political Philosophy" as a Resource Person in a Refresher Course in Philosophy, organized by the Department of Philosophy, Gauhati University, Guwahati, from 2nd to 4th December 2010.

Prof. Vanlalnghak attended and chaired one

academic session at the national seminar on "Social Concerns in Indian Philosophy", sponsored by Indian Council of Philosophical Research, New Delhi. Organized by the Department of Philosophy, Cotton college, Guwahati, on 29th November – 1st December, 2010.

Dr. X. P. Mao attended the national workshop sponsored by ICPR at Lucknow from 20 to 30 January 2011.

Dr. P. Biswas spoke on "Marxism and Post-Structuralism" at SSS Intervenes, 29th November, 2010, Jawaharlal Nehru University, New Delhi. Gave an Invited Talk on "Quantum Physics, Ontology and Limits of realism" at the Conference of Indian Association of Social Science Institutions (IASSI), New Delhi at Gauhati University, Guwahati, 29th December, 2010. Delivered a Public Lecture on "Political Economy of Development of India's Northeast" at the School of Studies in Social Systems, 13th January, 2010, SSS Intervenes, Jawaharlal Nehru University, New Delhi. Delivered the First Thingjam Kishen Memorial Lecture, D. M. College, Imphal on 25th June, 2010. Gave two lectures on "Ethics in Social Sciences" at ICSSR-NERC, Shillong, 16-17 December, 2010 and two lectures at Post-Doctoral Initiation Programme of ICSSR-NERC, at Shillong on 15-16 March 2011.

Chapter V

SCHOOL OF LIFE SCIENCES

Dean : Professor B. K. Sharma
Telephone : 0364 2722001 (O), 9436110599 (M); Fax No. 2550108
Email : deansls@nehu.ac.in; bksharma@nehu.ac.in

The School of Life Sciences comprises four academic departments, viz., Biochemistry, Biotechnology & Bioinformatics, Botany and Zoology, all of which offer postgraduate teaching and PhD programmes. 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 departments have

received substantial research grants from national and international funding agencies during the year. During the year 16 candidates were awarded Ph.D. degree from this School. Under the UPE-Biosciences programme, the School organized one national seminar on April 22-23, 2010 and one national symposium on March 17-19, 2011 on Biodiversity Assessment, Conservation and Value Addition with the Dean of the School as the Organizing Secretary.

Department of Biochemistry

Name of the Head : Prof. A. Alam
Telephone : 0364-2722101(o)
Email : anisalam14@yahoo.com

Thrust Areas

Medical Biochemistry and Microbial Biochemistry.

Brief Statement of Academic Activities

During this period 16 students have successfully completed their M.Sc. and 3 students have been awarded PhD degree. Two students cleared CSIR-NET. The UGC-SAP (DRS II) programme is continuing in the department. One new project has been

sanctioned by the Department of Biotechnology, Government of India. Faculty members are involved as Project Investigators of the research area 'Biosciences' under University with Potential for Excellence (UPE) scheme, funded by the University Grants Commission. The faculty members participated in various seminar/workshops/ conference/ symposia.

Faculty Profile

| | | |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Professors | : | R. Lalthantluanga, PhD. (Pune U) A.N. Rai, PhD. (Dundee) (currently VC, NEHU) R. Sharma, PhD. (BHU) R.N. Sharan, PhD. (JNU) A. Alam, PhD. (FTI, Moscow) |
| Associate Professors | : | D. Syiem, PhD. (NEHU) A.K. Singh, PhD. (HCU) M.B. Syiem, PhD. (NEHU) |
| Assistant Professors | : | P.K. Ambasht, PhD. (BHU) L. Kma. PhD. (NEHU) S. Bhan, PhD. (BHU) T. Tripathi, PhD. (JNU) |

Student Intake

| | | | | | |
|---------------------------------------------------|-----|-----|------|-------------|-------|
| Enrolment capacity: M. Sc.: 21; Ph. D. = variable | | | | | |
| Actual Admission: | SC/ | ST/ | Gen. | Male/Female | Total |
| M. Sc. | - | 13 | 8 | 1 20 | 21 |
| Ph. D. | - | 7 | 4 | 4 7 | 11 |

Degree Awarded

| | | | | | | |
|--------|-----|-----|------|------|--------|-------|
| | SC/ | ST/ | Gen. | Male | Female | Total |
| M. Sc. | - | 13 | 3 | 3 | 13 | 16 |
| Ph. D. | - | 1 | 2 | 1 | 2 | 3 |

Ph.D.

1. Ms. A. Bhattacharjee, "Studies on preservation and conservation of cyanobacteria". Supervisor: Dr. M. B. Syiem.
2. Mr. D. Nongbri, "Regulation of glucocorticoid receptors during postnatal development of chicken". Supervisor: Prof. R. Sharma.
3. Ms. P. Bhattacharjee, "Regulation of adenosine deaminase during postnatal development of chicken". Supervisor: Prof. R. Sharma.

Courses Conducted

M.Sc.

Semester I: Chemistry and Biomolecules; Intermediary Metabolism; Enzymology;

Practicals. Semester II: Techniques in Biochemistry (O); Physiological Chemistry; Microbiology (O); Practical. Semester III: Genetics; Medical Biochemistry; Environmental Biochemistry (O); Nutritional and Clinical Biochemistry (O); Practical. Semester IV: Molecular Biology; Bioenergetics; Immunology; Practical.

Ph.D.

Research Methodology, Topics in Biochemistry, Review of Literature and Seminar.

Seminars/Conferences/Symposia/Extension Programmes, etc.

Organized

The department organized a one day national seminar on Molecular Signaling in Biology under the aegis of UGC-DRS-II on 25th March, 2011.

Attended

V. Saio, D. Syiem and R. Sharma presented a paper on “Study of the antioxidant potential of *Osbeckia chinensis*, a medicinal plant of North-East India and determination of its phenolic and flavonoid contents” at the UPE-Biosciences Seminar on Assessment, Conservation and Value addition of Biodiversity, April 22-23, 2010 School of Life Sciences, NEHU, Shillong.

R. Sharma and D. Goyary presented a paper on “Reversal of age-related decline in malate-aspartate shuttle enzymes by late onset of dietary restriction in mice” at the Indian Aging Congress-2010, November 12-14, BHU, Varanasi.

K. Suchiang and R. Sharma presented a paper on “Differential effects of dietary restriction on acetylcholinesterase activity in different tissues of female mice as a function of age”, at the 79th Ann. Meeting of Soc. Biol. Chem. (I), December 13-15, 2010, IISc, Bangalore.

W. J. Kharbhih and R. Sharma presented a paper on “Tissue- and age-specific expression of cytosolic inorganic pyrophosphatase activity in mice” at the 79th Ann. Meeting of Soc. Biol. Chem. (I), December 13-15, 2010, IISc, Bangalore. [Best poster presentation award]

P. Dkhar and R. Sharma presented a paper on “Effect of melatonin and ascorbic acid on protein carbonyls of cerebral hemispheres of mice as a function of age” at the Intl. Symp. on ‘Brain Aging and Dementia: Basic and Translational Aspects’, BHU, Varanasi, November 29-30, 2010.

B. Kharwanlang and R. Sharma presented a paper on “Curcumin and capsaicin induce mouse hepatic glucocorticoid receptor activation *in vitro*” at the seminar on ‘Molecular Signaling in Biology’, March 25, 2011, Department of Biochemistry, NEHU, Shillong.

A. B. Syiem, D. Syiem and R. Sharma presented a paper on “Effect of *Hypochaeris radicata* on

fasting blood glucose level of normal and alloxan-induced diabetic mice” at the seminar on ‘Molecular Signaling in Biology’, March 25, 2011, Dept. Biochemistry, NEHU, Shillong.

V. Saio, D. Syiem and R. Sharma presented a paper on “Anti-oxidant potential of *Flemingia macrophylla*, a medicinal plant of Northeast India”, presented at the seminar on ‘Molecular Signaling in Biology’, March 25, 2011, Dept. Biochemistry, NEHU, Shillong.

M. Sohkhlet and A. Alam presented a poster titled “Biochemical characterization of tumor-associated antigens in mice exposed to hepatocarcinogen” at the international conference on Frontiers in carcinogenesis and cancer prevention: scientific advances and public health initiatives held on 16-18 February, 2011 at DSI, Bangalore. They also delivered oral presentation titled “Identification and characterization of tumor associated antigens in mice exposed to hepatocarcinogen” at the national symposium on Biodiversity, Assessment, Conservation and Value addition held on 17-19 March, 2011 at NEHU, Shillong.

S. P. Basaiawmoit and A. Alam presented a poster titled “A study on the effect of diethylnitrosamine on liver mitochondrial membrane lipids” at the international conference on Frontiers in carcinogenesis and cancer prevention: scientific advances and public health initiatives held on 16-18 February, 2011 at DSI, Bangalore. They also delivered oral presentation titled “Study on lipid organization in liver mitochondrial membrane of mice exposed to diethylnitrosamine” at the national symposium on Biodiversity, Assessment, Conservation and Value addition held on 17-19 March, 2011 at NEHU, Shillong.

Anal JSM Hmungshel, D. Syiem and G. Bez presented a paper titled “Secondary metabolites

in *Potentilla fulgens*: A preliminary study” at the national seminar on Recent Trends in phytochemical & pharmaceutical research & future prospects held on 26-27 March 2010, Gauhati University, Assam.

A.B. Syiem and D. Syiem presented a paper titled “Evaluation of anti-diabetic activity of *Houttuynia cordata* in normal and alloxan-induced diabetic mice” at the seminar on ‘Assessment, Conservation & Value addition of Biodiversity’, held on 23 April, 2010, NEHU, Shillong.

D. Syiem presented a paper titled “Medicinal and Aromatic plants: Role in health, Economy and Biodiversity Conservation” at the workshop on ‘Conserving and Promoting Biodiversity: Strategic approaches’, organized by the Directorate of Horticulture, Govt. of Meghalaya on 6 October 2010.

W. Lyngdoh and D. Syiem presented a paper titled “Effect of extract of *Gymnopetalum cochinchinensis* on the level of Cholesterol and Triglycerides in alloxan-induced diabetic mice” at the seminar on ‘Molecular Signaling in Biology’ at Department of Biochemistry (under UGC-DRS II), NEHU, Shillong, on 25 March 2011.

C Akoijam and A. K. Singh presented a poster titled “Molecular typing and distribution of filamentous heterocystous cyanobacteria isolated from Loktak lake, Manipur, India” at the 51st annual conference of Association of Microbiologists of India (AMI-2010) held on Dec 14-17, 2010 at Birla Institute of Technology, Mesra, Ranchi, Jharkhand.

Amrita Bhattacharjee and Mayashree B Syiem presented a paper on “Potential use of Snep Kwai (betel nut outer cover) as biofertilizer carrier to rice fields” at the UPE-Biosciences seminar on assessment, conservation and value addition

of biodiversity, 22-23 April, 2011, NEHU, Shillong.

C Akoijam and A. K. Singh presented a paper on “Biodiversity and Characterization of association competence of free living rice field cyanobacterial strains with rice plants” at the national seminar on Biodiversity Assessment, Conservation and value addition, UPE, School of Life Sciences, March 17-19, 2011, NEHU, Shillong.

N. A. Nongrum and M. B. Syiem presented a paper on “Metal Stress on Rice Field Cyanobacterium *Nostoc* in Changing Environment as a Result of Increased Application of Agricultural Chemicals” at the national symposium on Assessment and Conservation of plant genetic resources under changing environment, September 8-10, 2010, NEHU, Shillong.

N. A. Nongrum and M. B. Syiem presented a paper on “Toxic effect of heavy metal copper on cyanobacteria” at the national symposium on Biodiversity Assessment, Conservation and value addition, UPE, School of Life sciences, March 17-19, 2011, NEHU, Shillong.

B. Nongbri and M. B. Syiem presented a paper on “Assessment of cyanobacterial diversity in rice fields across Meghalaya” at the national symposium on biodiversity assessment, conservation and value addition, UPE, School of Life sciences, March 17-19, 2011, NEHU, Shillong.

N.A. Nongrum and M. B. Syiem presented a paper on “Effects of Copper and 2, 4-Dichlorophenoxyacetic acid on Cyanobacterium *Nostoc* sp.” at the seminar on Molecular Signalling in Biology, Department of Biochemistry, March 25, 2011, NEHU, Shillong.

P.K. Ambasht attended the national symposium on ‘Maintenance of Teaching Standards in

Higher Education: Issues, Problems and Reforms' NEHU, Shillong on March 26, 2011 and presented a paper entitled "University Education Assessment on Teaching and Research Standards: Problems and Reforms".

Publications

Published in India

Goyary, D. and R, Sharma. (2010) Dietary restriction prevents diabetogenic effect of streptozotocin in mice.. *Indian J Biochem. Biophys*, 47: 254-56.

Ranhotra, H S and R, Sharma. (2010) Moderately high altitude habitation modulates lipid profile and alkaline phosphatase activity in aged khasis of Meghalaya. *Indian J Clin Biochem*, 25(1): 51-56.

Syiem M B, B B, Nongbri, A, Pinokiyo, A, Bhattacharjee, N A, Nongrum, and L, Hynniewta. (2010). Significance of cyanobacterial diversity in different ecological conditions of Meghalaya, India. *J of Appl and Nat Sci* 2(1): 134-39.

Syiem, M B. and A, Bhattacharjee. (2010). An efficient protocol for long term preservation of cyanobacteria. *J of adv lab res in Biol*, 1(1): 54-60.

Published Abroad

Akoijam, C, and A K, Singh. (2011) Molecular typing and distribution of filamentous heterocystous cyanobacteria isolated from two distinctly located regions in North-Eastern India. *World J Microbiol and Biotechnol*, DOI: 10.1007/s11274-0684-8.

Choudhury, Y. and R N, Sharan. (2010) Ultrastructural alterations in liver of mice exposed chronically and transgenerationally to aqueous extract of betel nut: Implications in betel nut-induced carcinogenesis. *Microsc Res Tech*, 73(5): 530-39.

Dkhar, P. and R, Sharma. (2010) Effect of dimethylsulphoxide and curcumin on protein

carbonyls and reactive oxygen species of cerebral hemispheres of mice as a function of age. *Int J Dev Neurosci*, 28: 351-57.

Lakadong, R O. A C, Katakai, and R N, Sharan. (2010) ADP-ribose polymer - a novel and general biomarker of human cancers of head & neck, breast, and cervix. *Mol Cancer*, 9: 286-94.

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Sharan, R N, and Y, Choudhury. (2010) Betel nut and susceptibility to cancer. Multi-author refereed review in a monograph titled "Environment Factors, Genes, and Development of Human Cancers" edited by D. Roy and M. T. Dorak, Springer Science + Business Media, USA: (DOI 10.1007/978-1-4419-6752-7_15).

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Syiem, D, and S, Majaw. (2010). Effect of *Potentilla fulgens* L. methanolic extract on Sorbitol Dehydrogenase in normal and alloxan-induced diabetic mice. *Pharmacologyonline*, 2: 671-80.

Syiem, D, and S, Majaw. (2010). Effect of *Potentilla fulgens* L. on aldose reductase activity of normal and diabetic mice. *Inventi Rapid: Ethnopharmacology*, 1(1). www.inventi.in.

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Tripathi, T, A, Roseler, S, Rahlfs, K, Becker, and V, Bhakuni. (2010) Conformational stability and energetics of *Plasmodium falciparum* glutaredoxin. *Biochimie*, 92: 284-91.

Turtoi, A. R. N. Sharan, A. Srivastava, and F H A. Schneeweiss. (2010) Proteomic and genomic modulations induced by γ -irradiation of human blood lymphocytes. *Int J Radiat Biol*, 86(10): 888-904

Funds Received

UGC-SAP (DRS-II): ~6 lakhs (Coordinator: Prof. R. Sharma)

DST-FIST (Infrastructure): ~20 lakhs

DST: ~21 lakhs (Prof. R. Sharma)

UGC: ~10 lakhs (Prof. R. Sharma)

BRNS (DAE): 30 lakhs (Prof. R. N. Sharan and Dr. L. Kma)

DST: 20 lakhs (Prof. A. Alam)

BRNS (DAE): ~30 lakhs (Dr. D. Syiem)

DBT: ~73 lakhs (Dr. T. Tripathi)

Research Projects

Ongoing and New

| Name of the Project | Funding Agency | PI |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| Dietary and hormonal modulation of protein carbonylation in mice as a function of age | UGC, New Delhi | Prof. R. Sharma |
| Studies on biomodulators on glucocorticoid receptors in mice | DST, New Delhi | Prof. R. Sharma |
| Biodosimetry studies using cytogenetic and gene expression profiles in human peripheral blood lymphocytes exposed to gamma radiation <i>ex vivo</i> | BRNS, Mumbai | Prof. R. N. Sharan |
| Molecular and immuno-chemical characterization of tumor associated antigens in mice exposed to nitrosamines | DST, New Delhi | Prof. A. Alam |
| Flora & Fauna of Kyllengpynden Sohiong Mawthabah Uranium rich area of West Khasi Hills, Meghalaya | BRNS, Mumbai | Dr. D. Syiem |
| Identification, molecular characterization and structure determination of glutaredoxin system proteins from infectious flukes | DBT, New Delhi | Dr. T. Tripathi |

Academic/Professional Collaborations

There are no formal foreign collaborations/partnerships but research collaborations at individual level are with the following institutes: University of Konstanz, FRG; University of Dundee, UK; Uppsala University, Sweden; University of California, USA; Institute of Enzyme Research, Japan; Toho University, Japan; Research Centre, Juelich, FRG; Osaka University, Japan; University of Cambridge, UK; Newcastle

University, UK; Medical College of Wisconsin, Milwaukee, USA; Justus-Liebig-University, Germany; JNU, New Delhi and BHU, Varanasi.

Honours/Awards/Recognition

Prof. R. Sharma was elected as President of the Association of Gerontology (India). He is also a member of the editorial board of *Biogerontology* from Springer, The Netherlands and *International Journal of Developmental Neurosciences*, Elsevier, USA.

Prof. R. N. Sharan has been appointed as Associate Editor (Receiving Editor for Asia and Asia-Pacific region) of an open access online and print version journal, *Journal of Carcinogenesis* [BioMed Central, USA]; 2011 – 2013.

Prof. A. Alam has been appointed as a member of UGC expert committee for evaluation of SAP/DRS programme in December 2010.

Dr. D. Syiem is the reviewer of *Science Alert*, *African Journal of Pharmacy and Pharmacology*, *Journal of Agricultural Biotechnology & Sustainable Development* and *Journal of Medicinal Plants Research*.

Dr. M. B. Syiem has been appointed as a Member of Advisory Committee for Women & Childhealth Nutrition Programme under National Council for Science & Technology Communications (NCSTC), Department of Science & Technology, Ministry of Science & Technology, GOI, New Delhi, September 2010.

Dr. T. Tripathi received Ph.D. Degree from Jawaharlal Nehru University, New Delhi in June 2010. He is a reviewer of the peer-reviewed international journals, *Analytical Biochemistry*, *International Journal of Biomedical Science* and a member of the editorial board of *Advances in Applied Research*.

Other Academic Activities

Prof. R. Sharma attended the national seminars on 'Biodiversity, Assessment, Conservation and Value addition' held on 17-19th March, 2011 at NEHU, Shillong; and 'Indian Ageing Congress-2010' at BHU on 12-14th November 2010; and 'Molecular Signaling in Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March, 2011.

Prof. R. N. Sharan attended the national seminars on 'Biodiversity, Assessment, Conservation and Value addition' held on 17-19th March, 2011 at NEHU, Shillong, and 'Molecular Signaling in

Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March 2011.

Prof. A. Alam attended the national seminars on 'Biodiversity, Assessment, Conservation and Value addition' held on 17-19th March 2011 at NEHU, Shillong; and 'Molecular Signaling in Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March, 2011, and delivered an invited lecture on "Modeling Biological system" held on 25-27th October 2010 at NEHU, Shillong.

Dr. D. Syiem attended seminars on 'Basic Mass-spectrometer with special emphasis on GC-MS/MS and LC-MS/MS' sponsored by Varian India Pvt Ltd, Kolkata & SAIF, NEHU, on 9th March 2011; 'Molecular Signaling in Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March 2011; 'Assessment, Conservation and Value Addition of Biodiversity' organized by the School of Life Sciences, NEHU, Shillong on 22-23rd April, 2010; National symposium on 'Biodiversity, Assessment, Conservation and Value Addition' held on 17 – 19th March, 2011 at School of Life Sciences, NEHU, Shillong; 'Discovery to Measurement' organized by Agilent Technologies, Mumbai on 8th March 2011; Regional workshop on 'Principles & procedures of qualifying for carbon credit by Reducing Emissions from Deforestation and Forest Degradation (REDD) & Clean Development Mechanism (CDM)' organized by the Regional Centre for National Afforestation and Eco-development Board, NEHU, Shillong on 9th September 2010, 'Biodiversity of North-East India - Issues & Concerns' organized by the Regional Centre National Afforestation and eco-development Board, NEHU, Shillong on 22nd May 2010, International seminar/workshop on 'Managing Biodiversity for sustainable livelihoods in the changing environment in

marginal mountain regions', organized by NEHU, Dept of Environmental Studies, JNU, School of Environmental Sciences, United Nations University, and Institute of Sustainability & Peace and Department of Botany, Delhi University on 21-23 December 2010.

Dr. A. K. Singh attended the national seminars on 'Assessment, Conservation and Value Addition of Biodiversity' at NEHU, Shillong held on 22-23rd April 2010; 'Biodiversity, Assessment, Conservation and Value Addition' held on 17-19 March 2011 at School of Life Sciences, NEHU, Shillong; 'Molecular Signaling in Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March 2011. Attended a series of lectures on "Basic Mass-spectrometer with special emphasis on GC-MS/MS and LC-MS/MS" Sponsored by Varian India Pvt Ltd, Kolkata & SAIF, NEHU, on 9th March 2011.

Dr. L. Kma attended the national seminars on 'Assessment, Conservation and Value Addition of Biodiversity' organized by the School of Life Sciences, NEHU, Shillong on 22-23rd April 2010; 'Biodiversity, Assessment, Conservation and Value Addition' held on 17-19 March 2011 at School of Life Sciences, NEHU, Shillong and

'Molecular Signaling in Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March 2011.

Dr. S. Bhan attended the national seminars on 'Assessment, Conservation and Value Addition of Biodiversity' organized by the School of Life Sciences, NEHU, Shillong on 22-23rd April, 2010 and 'Molecular Signaling in Biology' organized by the Department of Biochemistry, NEHU, Shillong on 25th March 2011.

Dr. T. Tripathi attended a workshop on "Bioinformatics: A Practical Approach" organized by the Centre of Bioinformatics, NEHU, Shillong on 19-24 April 2010; National symposium on Assessment, Conservation and Value Addition of Biodiversity organized by the School of Life Sciences, NEHU, Shillong on 22-23rd April 2010; Basic Mass-spectrometer with special emphasis on GC-MS/MS and LC-MS/MS' sponsored by Varian India Pvt Ltd, Kolkata & SAIF, NEHU, on 9th March 2011.

Dr. L. Kma completed a 'Training Course on Radiological Safety aspects in the Research Application of Ionizing Radiation', May 31-June 08, 2010, conducted by Indian Association for Radiation Protection at CT & CRS in Bhabha Atomic Research Centre, Mumbai.

Department of Biotechnology and Bioinformatics

Name of the Head : Prof. S. Rama Rao
Telephone : 272 2401/272 2402

Thrust Areas

Molecular Genetics and Applied Microbiology.

Faculty Profile

Professors : A. Chatterjee, M.Sc. (Burdwan)/ Ph.D. (BHU)
S. Rama Rao, M.Sc. / Ph.D. (Jodhpur U)
Kripamoy Aguan M.Sc (IARI). Ph.D. (Univ. of Birmingham)

School of Life Sciences

Associate Professor : S.R. Joshi, M.Sc. / Ph.D. (NEHU)
 Assistant Professors : S. Majaw, M.Sc (Tezpur U)
 A. Bhattacharjee, M.Sc./ Ph.D. (NEHU) M.Sc. (Annamalai U)
 Neha Chaurasia, M.Sc. (BHU)

Visiting Professor/Fellows/Scholars

Prof Apurba Dey from NIT, Durgapur visited the department for teaching assignment and covered aspects of Bioprocess Engineering for final year

students. Prof Utpala Chatterjee, Former Director of Chittaranjan Cancer Research Institute, Kolkata visited the department for teaching assignment on Immunology for first year students.

Student Intake

Enrolment capacity:

| Actual admission | SC | ST | OBC | Gen | Male | Female | From Meghalaya/ From Outside |
|------------------|----|----|-----|-----|------|--------|---------------------------------|
| M.Sc | 2 | 13 | 2 | 7 | 8 | 16 | 10/14 |
| Ph D | - | 3 | - | 8 | 6 | 5 | 03/08 |

Degrees Awarded

| | OBC | ST | Gen | Male | Female | Total |
|------|-----|----|-----|------|--------|-------|
| M.Sc | 1 | 11 | 6 | 5 | 13 | 18 |

Courses Conducted

I Semester: Cell Biology & Genetics, Biomolecules, Microbiology, II Semester: 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

Final year students of MSc visited Mumbai for a study tour escorted by Prof. S.R. Rao, Dr. S.R. Joshi and Dr. A. Bhattacharjee from 25 January to 3 February 2011 and visited institutes like IIT Mumbai, Mumbai University, and BNHS.

Seminars/Conferences/Symposia/Extension Programmes

Organised

The department organized a 2-day national workshop on Microbial Diversity and Functions: From Genes to Omics, held at the Department of Biotechnology & Bioinformatics, NEHU on 25-26 November 2010. The department also jointly organized a two-week national workshop on Hands-on Training on Techniques used in Biotechnological Research, Department of Biotechnology & Bioinformatics and Department of Zoology of NEHU on February 28th -12th March 2011.

Attended

Prof. S.R. Rao et al:

“Karyo-morphological characterization of natural genetic variation in some threatened *Cymbidium* species of Northeast India” at the UPE- Biosciences Seminar on Assessment, Conservation and value addition of Biodiversity (April 22-23, 2010), School of Life Science, NEHU, Shillong, India.

“Desert or Hills-Genetic diversity analysis of plants by Cytogenetical and molecular markers: An ideal approach” at the international conference on Biotechnology: A global scenario (November 2-4, 2010), Department of Biotechnology, Kakatiya University, Warangal.

“Karyological Studies in *Citrus* species of North-East India” at the national symposium on Biodiversity Assessment, Conservation and Value Addition, organized by School of Life Sciences (UPE-Biosciences) NEHU, Shillong (17th-19th March 2011).

“Assessment of natural Genetic variation in Asiatic *Cymbidiums* through cytogenetical and molecular approaches” at the national conference on Medicinal Orchids: Sustainable use and Benefit sharing for Rural and Tribal Communities (March 29-30, 2011), organized by the Orchid Society of India, Department of Botany, Punjab University, Chandigarh.

“Cytogenetics of Orchids: Indian contributions - past, present accomplishments and future perspectives” at the national conference on Medicinal Orchids: Sustainable use and Benefit sharing for Rural and Tribal Communities (March 29-30, 2011), organized by the Orchid Society of India, Department of Botany, Punjab University, Chandigarh.

Dr. S. R. Joshi et al:

“Assesment of fungal biodiversity in soils of North East India - an 18 S rDNA approach” at

the international seminar/workshop on Managing Biodiversity for sustainable livelihoods in the changing environment in marginal mountain regions, December 21-23, 2010 at NEHU, Shillong, Meghalaya.

“Diversity of *Bacillus*, *Lysinibacillus* and *Paenibacillus* species characterized from Cherrapunjee and a sacred grove of Mawphlang in Meghalaya” at the international seminar on Managing diversity for sustainable livelihoods in the changing environment in marginal mountain regions, December 21-23, 2010 at NEHU, Shillong, Meghalaya.

“Diversity of metal tolerant bacteria from pre-mined uranium rich areas” at the international seminar on Biodiversity of North-East India-Issues and Concerns, May 22, 2010 at NEHU, Shillong, Meghalaya.

“Characterization of Culturable Aerobic Uranium Tolerant Bacteria from Sub-surface Soils around the Dumping Sites of Uranium Exploratory Drilling and Test Recovery Plant of Domiasiat in India” at the international symposium on Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges, December 14-17, 2010 at 51st Annual Conference of Association of Microbiologists of India (AMI), December at Birla Institute of Technology, Mesra, Ranchi.

“Dual tolerant gram-negative bacilli from uranium-rich site of Meghalaya: a biodiversity adaptation approach” at the international seminar on “Managing Biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions” December 21-23, 2010 at NEHU, Shillong, Meghalaya.

“Study on the phylogenetic diversity of culturable Actinobacteria from Papumpare district of Arunachal Pradesh, India” at the

international seminar/workshop on Managing Biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions, December 21-23, 2010 at NEHU, Shillong, Meghalaya.

“Assessment of culturable bacterial diversity in soils of North-East India: a molecular approach” at the international seminar/workshop on Managing Biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions”, December 21-23, 2010 at NEHU, Shillong, Meghalaya.

“Stress tolerance by bacteria characterized from Cherrapunjee and a sacred groove of Mawsynram in Meghalaya- a comparative assessment on impact of microclimatic changes” at the 80th Annual Session of the National Academy of Sciences, India (NASI), held at Jaipur National University, Jaipur on December 2-4, 2010.

“Bacteria and soil enzyme analysis in contrasting soil conditions: A comparative assay of coal mine, degraded and pristine soil” at the UPE-Biosciences National Symposium on Biodiversity Assessment, Conservation and Value Addition, organized by School of Life Sciences, NEHU, March 17-19, 2011.

“Extended-Spectrum β -Lactamase-Producing Shiga Toxin Gene (*stx1*)-Positive *Escherichia coli* isolated from retail market chicken meat and associated niche in Meghalaya, India”, at the World Congress on Biotechnology, 21-23 March 2011, Hyderabad International Convention Centre, Hyderabad, India.

“Fibrinolytic activity of *Lactococcus lactis* isolated from traditional fermented soybean food of Meghalaya”, at the World Congress on Biotechnology, 21-23 March 2011, Hyderabad International Convention Centre, Hyderabad, India.

“Preparatory method alters the microbial and chemical quality of *Tungrymbai* - a traditionally fermented soybean food of the ethnic tribes of Meghalaya, India” at the International Congress on Traditional Foods (ICTF) 2010 held at Pondicherry on 1-3 December, 2010.

“*Lactobacillus pobuzihii* - a probiotic lactic acid bacteria with bacteriocinogenic activity characterized from *Tungtap* - a traditional fermented fish food of ethnic tribes of Meghalaya, India” at the International Congress on Traditional Foods (ICTF) 2010 held at Pondicherry on 1-3 December 2010.

Publications

Published in India

Joshi, S.R (2010) Roadside pollution and microbial community of alder and khasi pine (Eds P.R Jatkar, P. Parihar and L. Parihar). In: *Advances in Biotechnology and Microbiology*. Jodhpur: Agrobios.

Purohit, J, A, Mahmoudi, A, Shamurailatpam, and S.R, Rao. 2011. Meiotic chromosome studies in the diversity diagnostic of *Cyamopsis tetragonoloba* accessions: an important gum yielding plant of Indian Thar desert. *Indian Journal of Plant Genetic Resources*, 24:8-12.

Published Abroad

Bhagobaty, R.K, S.R Joshi and R Kumar (2010) *Penicillium verrucosum* RS7PF: a root fungal endophyte associated with an ethno-medicinal plant of the indigenous tribes of eastern India. *African journal of Microbiology Research*, 4(9): 766-770.

Devi, L.S, P Khaund and S.R Joshi (2010) Thermostable α -amylase from natural variants of *Bacillus* spp. Prevalent in eastern himalayan range. *African Journal of Microbiology Research*, 4(23): 2534-42.

Joshi, S.R, R Kumar, P Saikia, R.K Bhagobaty

- and S. Thokchom (2010) Impact of roadside pollution on microbial activities in sub-tropical forest soils of North-East India. *Research Journal of Environmental Sciences*, 4(3): 280-87.
- Kumar, S, S, Kumaria, S.K, Sharma, S.R, Rao, and P, Tandon. 2011. Genetic diversity assessment of *Jatropha curcas* L. germplasm from Northeast India. *Biomass and Bioenergy*, doi:10.1016/j.biombioe.2011.04.025.
- Pfoze, N.L, Y Kumar, Bn Myrboh, R.K Bhagobaty and S.R Joshi (2011) *In vitro* antibacterial activity of alkaloid extract from stem bark of *Mahonia manipurensis* Takeda. *Journal of Medicinal Plants Research*, 5(5): 859-86.
- Prasad, P.K, L.M Goswami, V. Tandon, A. Chatterjee (2011) PCR-based molecular characterization and insilico analysis of food-borne trematode parasites *Paragonimus westermani*, *Fasciolopsis buski* and *Fasciola gigantica* from north-east India using ITS2 rDNA. *Bioinformation*, 6: 64-68.
- Pujari, Geetanjali, A Sarma, A. Chatterjee (2010) The influence of reduced glutathione on chromosome damage induced by X-rays or heavy-ion beams of different LET and on the interaction of DNA lesions induced by radiations and bleomycin. *Mutation Research*, 696: 154-59.
- Purusothaman, K.G K. Bhattacharjee, S.R. Joshi and R. Vasanthakumari (2010) Comparative efficacies of three acid-fast staining techniques under field conditions for *Mycobacterium tuberculosis* in the Indian context. *The Internet Journal of Microbiology*, 4 (2).
- Rao, S.R, S, Trevedi, D, Emmanuel, K, Merita, and M, Hynniewta. 2010. DNA repetitive sequences-types, distribution and function: A Review. *Journal of Cell and Molecular Biology*, 7: 1-9.
- Rawat, D, S.K, Sharma, A, Mahmoudi, and S.R, Rao. 2011. Cytogenetical rationale for probable amphidiploid nature of *Dipcadi erythraeum*-a rare and endemic plant of Indian Thar Desert. *Caryologia*, 64: 75-83.
- Saikia, Purabi and SR Joshi (2010) Retail market poultry meats of North-east India: A microbiological survey for pathogenic microorganisms. *Research Journal of Microbiology*, 5(1): 36-43.
- Sarma, B, C Acharya and SR Joshi (2010) Pseudomonads: a versatile bacterial group exhibiting dual resistance to metals and antibiotics. *African journal of Microbiology Research*, 4(25): 2828-35.
- Sharma, S.K, R, Khedasana, S, Kumaria, P, Tandon, and S.R, Rao. 2010. Karyomorphological characterization of natural genetic variation in some threatened *Cymbidium* species of Northeast India. *Caryologia*, 63: 99-105.
- Sharma, S.K, S, Kumar, D, Rawat, S, Kumaria, A, Kumar, and S.R, Rao. 2011. Genetic diversity and gene flow estimation in *Prosopis cineraria* (L.) Druce: a key stone tree species of Indian Thar desert. *Biochemical Systematics and Ecology*, 39: 9-13.
- Shylla, J.A, S. Ghatani, A. Chatterjee, V. Tandon, (2011) Secondary structure analysis of ITS2 in the rDNA of three Indian paramphistomid species found in local livestock. *Parasitology Research*, 108:1027-1032, 2011.
- Syiem, D. and S, Majaw (2010) Effect of *Potentilla fulgens* L. methanolic extract on sorbitol dehydrogenase in normal and alloxan-induced diabetic mice. *Pharmacologyonline*, 2: 671-80.

Funds Received

Department of Biotechnology (Project) =
Rs. 205.14 lakhs

Department of Atomic Energy - BRNS, Mumbai
(Project) = Rs 9.84 lakhs

Dept of Biotechnology - Govt. of India MSc
Support Programme = Rs 19.80 lakhs

Department of Information Technology, Govt.
of India (Project) = Rs 60.50 lakhs

Indian Council of Agricultural Research/NAIP/
World Bank (Project) = Rs. 23.84 lakhs

DST - Ministry of Science and Technology
(Project) = Rs 44.00 lakhs

DST - Ministry of Science and Technology
(FIST) = Rs 51.00 lakhs

UGC, Govt. of India (Project) = Rs 7.01 lakhs

Research Projects

New

- i. Isolation, Characterization and Anti-Cancer Property of Endophytic Fungal Metabolites from North Eastern India, Funding Agency: Department of Biotechnology, Govt. of India, Amount Received: Rs. 26.02 lakhs/-, Principal Investigator: Dr. S.R. Joshi.
- ii. Exploration and Germplasm Collection of *Citrus* from the North-Eastern India and Characterization of Genetic Variability Using Cellular and Molecular Approaches, Funding Agency: University Grant Commission, Govt. of India, Amount sanctioned: Rs 11,01,000 lakhs, Principal Investigator: Prof. S. Rama Rao. CoPI: Prof. M. S. Bisht of the Centre for Science Education, NEHU.
- iii. The use of biodiversity as a source of new chemical entities against defined molecular targets for the treatment of tuberculosis, Funding agency: Department of Biotechnology, Govt. of India, Amount received: Rs 38.55 lakhs, Principal Investigator: Dr. A. Bhattacharjee.

- iv. Allelic loss of mitotic checkpoint genes and their expression level in oral and esophageal cancer samples of raw betel-nut chewers in Meghalaya, Funding Agency: DST, Govt. of India.

Amount Received: Rs 44.0 Lakhs. Principal Investigator: Prof A Chatterjee.

- v. Purification and characterization of bioactive natural antioxidant, immunomodulator and anticancer products from *Dioscorea alata* L., of North Eastern region of India, Funding Agency: DBT, Govt. of India, Amount Received: Rs. 22.59 lakhs, Principal Investigator: Prof. A. Chatterjee.
- vi. Studies on antitumor and radioprotective potential of *Potentilla fulgens* Wall ex Hook. and characterization of its active compounds, Funding Agency: DBT, Govt. of India, Amount Received : Rs. 27.20 lakhs, Principal Investigator: Prof. A. Chatterjee.
- vii. Development of Antiepileptic drugs, Funding Agency: DBT, Govt. of India, Amount Received: Rs. 86.48 lakhs, Principal Investigator: Prof. K. Aguan.

Ongoing

- i. Microclimatic Characterization and Microbial Indicator Database Creation of Cherrapunjee and Adjoining Sacred Groves of Meghalaya, Funding Agency: Department of Information Technology (MC&IT), Govt. of India, Amount Received: Rs. 7.98 lakhs, Principal Investigator: Dr. S.R. Joshi.
- ii. Development of web based microbial database (bacteria, actinomycetes and fungi) of North-East India, Funding Agency: Department of Information Technology (MC&IT), Govt. of India, Amount Received: Rs. 52.52 lakhs,

- Principal Investigator: Dr. S.R. Joshi.
- iii. Characterization of metal tolerant microbes from soils of Domiasiat-Wakhyn area of Meghalaya, Funding Agency: Department of Atomic Energy, BRNS, Mumbai, Amount Received: Rs. 9.84 lakhs, Principal Investigator: Dr. S.R. Joshi.
 - iv. Biosystematics of the genera *Vigna*, *Cucumis* and *Abelmoschus*, Funding agency: World Bank / ICAR / NAIP. Amount Received: Rs.23.84 lakhs, Principal Investigator: Prof. S. Rama Rao.
 - v. Status and PCR-based Molecular discrimination of Paragonimiasis and other Crustacea-born Trematode Zoonoses in Northeast India, Funding agency: DBT, Govt of India, Principal Investigator: Prof. V. Tandon, Department of Zoology; Co-investigator: Prof. A. Chatterjee.
 - vi. 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, Funding agency: DBT, Govt of India, Amount Received: Rs. 4.5 lakhs, Principal Investigator: Prof. A. Chatterjee.

Completed

Study of the microbiology and biochemistry of *Tungrymbai* - the fermented soybean food of Meghalaya, Funding Agency: Department of Biotechnology, Govt. of India, Principal Investigator: Dr SR Joshi.

Academic/Professional Collaborations

1. 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.

2. A collaborative research work in the field of microbiology-endophytes on characterization of novel endophytes and their anti-cancer properties has been going on between Dr A Chattopadhyay of Visva-Bharati and Dr. S.R. Joshi.
3. Prof A Chatterjee has a collaborative research on Purification and characterization of bioactive natural antioxidant, immunomodulator and anticancer products from *Dioscorea alata* L., of North Eastern region of India with Dr. N. Mandal of Bose Institute and Prof. Tapas Choudhury of Univ. of North-Bengal. He also has a collaborative research on Studies on antitumor and radioprotective potential of *Potentilla fulgens* Wall ex Hook. and characterization of its active compounds with Prof. U. Banerjee of NIPER, Chandigarh.

Other Academic Activities

Prof. K. Aguan attended the UPE national symposium on Biodiversity, Assessment, Conservation and Value Addition organized by School of Life Sciences, NEHU, 17th-19th March 2011; NEHU, Shillong. He also attended the national workshop on Microbial Diversity & Functions: From Genes to Omics, organized by Department of Biotechnology & Bioinformatics, NEHU, 25-26 November 2010, NEHU, Shillong. Prof. A. Chatterjee was a Visiting Faculty at the Department of Biotechnology, Banaras Hindu University, Varanasi from 28 September to 2 October 2010.

Prof. S.R. Rao delivered a lecture on 21 June 2010 on "Opportunities in Biotechnology on

School of Life Sciences

North- Eastern India with focus on North-Eastern Hill University, Shillong, Meghalaya” at Lachoo Memorial College of Science and Technology, Jodhpur. Delivered invited lecture on Analysis of Genetic variation in Cymbidiums of North-eastern India at the national conference on Medicinal Orchids: Sustainable use and Benefit sharing for Rural and Tribal Communities, organized by the Orchid Society of India, Department of Botany, Punjab University, March 29-30, 2011. Delivered theme lecture on Cytogenetics of *Vigna*, *Cucumis* and *Abelmoschus* at the workshop on Basic and Strategic Research in Frontier Areas of Plant Science, organized at the Indian Institute of Horticultural Research, Bangaluru, 7th – 8th March 2011.

Dr. S.R. Joshi delivered a talk on “Biodiversity of North-East India – Issues and Concerns” on 22nd May 2010 at the Regional Centre, National Afforestation and Eco-Development Board, Shillong. Delivered an invited talk on “Biodiversity: From aesthetics to conservation perspectives” to commemorate the International Year of Biodiversity at Shillong Jail Road Boys’ Higher Sec School, Shillong on 19th November 2010. Delivered an invited talk on “Biodiversity: Are microbes important only as our enemies?” at the workshop on Enjoying Science, organized by Jagadis Bose National Science talent Search at Shillong during April 12-16, 2010. Delivered a lecture on “Microbial diversity and relevance”

at the national workshop Microbial Diversity and Functions: From Genes to Omics held at NEHU on 25th-26th November, 2010. Delivered a lecture on “Molecular Tools in Microbial Characterization” at the national workshop on Hands-on Training on Techniques used in Biotechnological Research held at NEHU from February 28th to 12th March 2011. Served as reviewer of peer-reviewed journals like *Microbial Ecology*, *Indian Journal of Biotechnology*, *African Journal of Microbiology research*, *African Journal of Biotechnology* etc.

Dr. A. Bhattacharjee delivered a lecture at St. Edmunds College, Shillong on “Applications of Bioinformatics” on 20th August 2010 under the DBT Star College scheme-2010. Delivered a series of invited lectures on “Genome- its structure and function: Part-1 & 2” and also imparted the hands-on-training to the student participants in the Two-Day Training Programme on the “Practical Approach to Insilico Analysis of Genes and Proteins” under the DBT Star College Scheme-2010, organized by the Department of Biochemistry, Lady Keane College, Shillong, on 26th and 27th November 2010. Delivered three lectures on “Molecular Tools in Microbial Characterization” at the national workshop on Hands-on Training on Techniques used in Biotechnological Research held at NEHU on Feb 28th -12th March 2011.

Department of Botany

Name of the Head : Prof. N. Venugopal
Telephone : 0364 2722201, 2722202
Email : headbotany@nehu.ac.in

Thrust Areas

Plant Diversity Assessment and Conservation.

Brief Statement of Academic activities

The department is offering post graduate teaching programmes in (i) Botany and (ii) Plant Molecular Biology and Ph.D. in Botany. Besides its regular teaching and research programmes, the department was engaged in several academic activities during the period under report. These include organization of national symposium, refresher course, workshop,

summer school, invited lectures and other events to mark/ celebrate specific days. The department is a part of the research programme under the research focus "Biosciences" under the UPE programme of UGC. The department admitted seven students to its PhD programme during 2010-2011. Five students of the department were awarded PhD degrees. The Department generated grants worth Rs.107.55 Lakhs through UGC SAP programme and research projects from different funding agencies.

Faculty Profile

Professors:

| Name of the Faculty | Masters | | Doctorate | |
|---------------------|--------------------|------------|--------------------|------------|
| | Name of the degree | University | Name of the degree | University |
| Dr. P. Tandon* | M. Sc. | Lucknow | Ph. D. | Jodhpur |
| Dr. R. C. Laloo** | M. Sc. | Gauhati | Ph. D. | Gauhati |
| Dr. A. K. Misra | M. Sc. | Meerut | Ph. D. | Meerut |
| Dr. N. K. Churungoo | M. Sc. | Kashmir | Ph. D. | Kashmir |
| Dr. M. S. Dkhar | M. Sc. | NEHU | Ph. D. | NEHU |
| Dr. N. Venugopal | M. Sc. | Madras | Ph. D. | Madras |
| Dr. S. K. Barik | M. Sc. | Berhampur | Ph. D. | NEHU |
| Dr. Uma Shankar | M. Sc. | Agra | Ph. D. | NEHU |

* On EOL as Vice-Chancellor of NEHU.

**On EOL to Govt. of Meghalaya as a cabinet minister.

Associate Professors:

| | | | | |
|------------------|--------|------|--------|------|
| Dr. Y. Kumar | M. Sc | Agra | Ph. D. | NEHU |
| Dr. L. Kharlukhi | M. Sc. | NEHU | Ph. D. | IARI |
| Dr. H. Kayang | M. Sc. | NEHU | Ph. D. | NEHU |

School of Life Sciences

| | | | | |
|------------------|--------|------|--------|------|
| Dr. S. Kumaria | M. Sc. | NEHU | Ph. D. | NEHU |
| Dr. P. Ramanujam | M. Sc. | NEHU | Ph. D. | NEHU |

Assistant Professor:

| | | | | |
|---------------|---------------------|-------|--------|------|
| Dr. M. C. Das | Assistant Professor | M. Sc | Ph. D. | NEHU |
|---------------|---------------------|-------|--------|------|

Student Intake

Enrolment capacity: M. Sc. Botany: 30

M.Sc. Plant Molecular Biology: 10

Ph. D.: Variable

Actual Admission:

| Degree | SC | ST | G | University quota | M | F | Meghalaya | Outside |
|-----------------|----|----|----|------------------|----|----|-----------|---------|
| M. Sc. (Botany) | - | 15 | 12 | 3(ST) | 14 | 16 | 15 | 15 |
| M. Sc.(PMB) | - | 6 | 3 | 1(ST) | 3 | 7 | 8 | 2 |
| Ph. D. (Botany) | - | - | 7 | - | 2 | 5 | - | 7 |

Degrees Awarded

| Degree | SC | ST | General | Male | Female | Meghalaya | Outside |
|----------------|----|----|---------|------|--------|-----------------|----------------|
| M. Sc.(Botany) | - | 19 | 1 | 5 | 15 | M = 2 F = 13 | M = 3 F = 2 |
| Ph. D. | - | - | - | 3 | 2 | F = 2 | M = 3 |

Ph.D.Awarded

| Candidates' names | Title of research | Supervisor's name |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Sierra R. Hynniewta | Ethnobotanical studies in Khasi hills | Dr. Y. Kumar |
| Mhathung Yanthan | Establishment of phylogenetic relationship in <i>Myrica</i> species of Meghalaya and development of molecular markers for early screening of <i>Myrica</i> trees. | Prof. A.K. Misra |
| Shiny Ch. Sangma | Identification and functional characterization of the promoter region of endosperm specific legumin type seed storage protein gene in <i>Fagopyrum esculentum</i> (Moench) | Prof. N. K. Chrungoo |
| Lalliansanga | Studies on roles of calcium ions and abscisic acid in modulating detoxification pathways during osmotic stress in seedlings of maize (<i>Zea mays</i> L.). | Prof. N. K. Chrungoo |
| Arun Chettri | Effect of forest fragmentation on vascular plant diversity in Khangchendzonga Biosphere Reserve, Sikkim with emphasis on regeneration of some important taxa. | Prof. S. K. Barik (Supervisor) Prof. H.N. Pandey (Jt. Supervisor) |

| | | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Cressida Jamir | Isolation and functional characterization of novel abundantly expressed seed storage protein genes in maturing grains of common buckwheat | Prof. N. K. Chrungoo |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|

Courses Conducted

New Courses

The department has introduced an open course paper entitled, "Bioprocess Development" in the revised M.Sc. Botany syllabus w.e.f. 2010. It has also started M.Sc. in Plant Molecular Biology from the academic session of 2010.

M.Sc in Botany

Semester – I: Mycology, Plant Pathology and Microbiology, Mycology, Algae, Bryophytes and Pteridophytes, Gymnosperms and Plant Anatomy. Semester –II: Plant Taxonomy and Economic Botany, Plant Biochemistry and Molecular Biology, Stress Biology, Bioprocess Development, Techniques in Molecular Biology. Semester –III: Genetics, Cytogenetics and Plant Breeding, Plant Physiology, Biodiversity and Phytogeography, Environmental Pollution and Conservation, Biostatistics. Semester –IV: Plant Reproductive Biology and Biotechnology, Plant Ecology and Ecosystem Analysis, Project Work.

M.Sc. Plant Molecular Biology

Semester – I: Mycology and Plant Pathology, Microbiology, Cell Biology and Plant Physiology. Semester –II: Plant Biochemistry and Molecular Biology, Eukaryotic Genome Organization, Stress Biology, Bioprocess Development, Techniques in Molecular Biology.

PhD

Research Methodology, Plant Sciences, Review of Literature.

Study Tours/Field Trips of Students

Name of Teacher in-charge: Prof S.K. Barik.

Places of visit: Andaman Islands, duration: 17 days from 22nd December 2010 to 7th January 2011.

Seminars/Conferences/Workshops/Extension Programmes

Organized

- 1 Prof. A K. Misra organized the second winter camp for science students under DST-INSPIRE programme from December 13 to 17, 2010. The programme was funded by DST, Government of India.
- 2 A national seminar on Assessment and Conservation of Plant Genetic Resources under Changing Environment was organised on 8-10 September 2010. Prof. N.K. Chrungoo was the Convener, Prof. M.S. Dkhar was the Co-Convener, Dr. H. Kayang and Dr. S. Kumaria were the Organizing Secretaries and Dr. P. Ramanujam was the Treasurer.
- 3 Summer School was organized for B.Sc Honours students from different colleges of Meghalaya from 27th September to 8th October 2010 to expose and train the students with latest developments in Plant Sciences. Dr. P. Ramanujam was the course coordinator.
- 4 Indo-Taiwan Joint Workshop on Bamboo Flowering and Rodent Control was organized on 11-13 November 2010 at Hotel Ginger, Guwahati, India, sponsored by Department of Science and Technology, Govt. of India. Prof. S.K. Barik was the Organizing Secretary.
- 5 Workshop on Preventing Extinction and Improving Conservation Status of

Threatened Plants through Application of Biotechnological Tools on 17-18 March 2011 at NEHU New Guest House, Shillong, sponsored by Department of Biotechnology, Ministry of Science and Technology, Govt. of India. Prof. S.K. Barik was the Coordinator.

- 6 Regional Workshop on Biodiversity Conservation jointly organised with NERCOMP, International Fund for Agriculture Development (IFAD) project, Shillong on 7-9 December 2010. Prof. S.K. Barik was one of the Coordinators.
- 7 Refresher Course on Plant Diversity and Conservation from 17th March to 6th April 2011. Dr. H. Kayang was the Course Coordinator.
- 8 Training course on Bioinformatics: A Practical Approach on April 19 - 24, 2010 at Bioinformatics Centre, NEHU. Prof. P. Tandon was the coordinator.

Attended

Prof. A.K. Misra attended and presented a paper (Oral presentation) on "Amplicon restriction patterns, nucleotide sequence and secondary folding of 5.8SrRNA in resolution of taxonomic dispute of *Myrica* sp. (Co-author: Dr. M. Yanthan) at the 16th International meeting on *Frankia* and actinorhizal plants & International Symposium on Frankineae held at Porto University, Portugal, September 5 to 8, 2010.

Prof. N. Venugopal attended the First Global Congress on Plant Reproductive Biology organized by the Society of Plant Reproductive Biologists held at Agra on 22nd – 24th October 2010 and presented a paper on "Male sterility in *Gaultheria fragrantissima* Wall. (Ericaceae) in Meghalaya, Northeast India".

Prof. S.K. Barik attended the Indo-Taiwan Joint Workshop on *Bamboo Flowering and Rodent Control* organised by NEHU from 11-13th November, 2010 at Hotel Ginger, Guwahati, India, sponsored by Department of Science and Technology, Govt. of India and presented a paper on 'Ecological Impact Assessment and Predicting Modeling for Bamboo flowering' as invited speaker.

Dr. Suman Kumaria presented the following papers (posters) at the national conference on Medicinal Orchids: Sustainable Use & Benefit Sharing for Rural & Tribal Communities, Chandigarh, March 29-30, 2011:

Asymbiotic seed germination, mass propagation and seedling development of *Dendrobium hookerianum* Lindl., a threatened orchid of North-East India (Sumi Paul and P. Tandon)

Efficient and high frequency *in vitro* plantlet regeneration from rhizome section of *Cymbidium eburneum* L. an endangered orchid of Northeast India (Kiran Gogoi and P. Tandon)

In vitro propagation of *Vanda coerulea* Griff. ex. Lindl. via asymbiotic seed germination (Viki Manners and P. Tandon)

Response of axenic nodal explants of *Dendrobium aphyllum* Roxb. to plant growth regulators (Awarded First prize, Subarna Hajong and P. Tandon)

Prof. S.K. Barik attended the workshop on Preventing Extinction and Improving Conservation Status of Threatened Plants through Application of Biotechnological Tools organised by NEHU, Shillong on 17-

18 March 2011, sponsored by Department of Biotechnology, Ministry of Science and Technology, Govt. of India and presented a paper on “Ecological Niche Modeling and Metapopulation Modeling for Conservation of Threatened Plants”.

Publications

Published in India

Adhikari, D and S.K. Barik (2011). A Manual on Ecological Niche Modelling for Predicting Potential Areas of Distribution and Introduction for Threatened Plant Species, Department of Biotechnology, Govt. of India, New Delhi.

Das, M, and P. Ramanujam (2010). A comparative study on diversity of algae in coal mine impacted and unimpacted streams of Jaintia Hills, Meghalaya *J. Indian. Bot. Soc.*, 89 (1&2) : 204-09.

Das, Panna and H. Kayang (2011). Arbuscular Mycorrhizal Fungi from the Acidic Soils of Meghalaya, North East India. In: Status and conservation of biodiversity in North East India. (eds M.D. Chaudhury, G.D. Sharma, S. Chaudhury and A Dastaludar), Swastik Publisher, New Delhi. pp 230 – 244.

Hajong, S., S. Kumaria and P. Tandon (2010). *In vitro* propagation of the medicinal orchid *Dendrobium chrysanthum*. *Proc Indian Natn Sci Acad* 76 (2): 67-70.

Kumar, S., S. Kumaria and P. Tandon (2010). Efficient *in vitro* plant regeneration protocol from leaf explant of *Jatropha curcas* L – A promising biofuel plant. *J. Plant Biochemistry & Biotechnology* 19(2): 275-77.

Misra, Arvind K. (2011). *Fundamentals of Cell and Molecular Genetics*, Panima Publ. House, New Delhi.

Misra, Arvind K. (2011). Nitrogen fixation by actinoshizal symbiosis. In: *Biotechnology for*

Sustainable Development. (Editors: Hasnain S. E., Jha, R. B. and Sharan, R. N.). Tata McGraw Hill Education Pvt. Ltd., New Delhi, 85-100.

Pfoze, N.L. and Y. Kumar (2011). *In vitro* antibacterial activity of alkaloid extract from stem bark of *Mahonia manipurensis* Takeda. *Journal of Medicinal plant research*, 5(5): 859-61.

Pfoze, Neli Lokho and Y. Kumar (2010). Phytochemical screening to validate the Ethnomedicinal uses of *Dicentra Scandens* (D. Don) Walp leaf and root tuber. *Journal of Non-Timber Forest Products*, 17(3): 335-38.

Tandon, P. and S. Kumaria (2011). Orchid resources of the northeast India and their sustainable utilization. In: (Eds. S.E. Hasnain, Rashmi, B. Jha, R.N. Sharan), *Biotechnology for Sustainable Development – Achievements and Challenges*, Tata McGraw Hill Education Private Limited, New Delhi, India pp., 183-191.

Tandon, P., S. Kumaria, and H. Kayang (2010). Conservation of medicinal and aromatic plants of northeast India. *Medicinal Plants in Changing Environment* (Eds. A. Ahmad, T.O. Siddiqi, M. Iqbal, published by Capital Publishing Company, New Delhi, India. pg. No.165-174.

Venugopal, N, Wympher Langstang (2011). Floral biology of *Gaultheria fragrantissima* Wall. (Ericaceae) in Meghalaya, Northeast India. *The International Journal of Plant Reproductive Biology*, 3(1): 23-29.

Published Abroad

Bhowmik, S. S. D., S. Kumaria and P. Tandon (2010). Conservation of *Mantisia spathulata* Schult. and *Mantisia wengeri* Fischer, two critically endangered and endemic zingibers of Northeast India. *Seed Technology* 32(1):57-62.

Bhowmik, S. S. Das, S. Kumaria and P. Tandon (2010). Rhizome derived callogenic plantlet production of *Mantisia wengeri*

- (Zingiberaceae), a rare and endemic medicinal plant of Mizoram, North-East India. *International Research Journal of Biotechnology* 1(4): 065-70.
- Chettri, A, S.K. Barik, H.N. Pandey and M.K. Lyngdoh (2010). Liana diversity and abundance as related to microenvironment in three forest types located in different elevational ranges of the Eastern Himalayas. *Plant Ecology & Diversity* (U.K.), 3(2): 175-85.
- Chrungoo, N. K. and C. Jamir (2010). Isolation and Characterization of novel dehydrin gene from common buckwheat (*Fagopyrum esculentum* Moench). *Proc. 11th International Symposium on Buckwheat*, Orel, Russia, pp. 125-136, Orel.
- Chrungoo, N. K., S. Ch., Sangma, V.Bhatt and S.N Raina (2011). *Fagopyrum*. In: Kole C (ed) *Wild Crop Relatives: Genomic and Breeding Resources*. Vol 1: Wild Relatives of Cereals. Springer, Heidelberg, Berlin, New York pp 293-308.
- Das, B.B. and M.S. Dkhar (2011). Rhizosphere Microbial Populations and Physico Chemical Properties as Affected by Organic and Inorganic Farming Practices. *American-Eurasian Journal of Agriculture and Environmental Science*, 10 (2); 140-50.
- Das, Panna and H. Kayang (2010). Arbuscular mycorrhizal fungi and dark septate endophyte colonization in bamboo from northeast India. *Frontiers of Agriculture in China*, volume 4(3): 375 - 382.
- Das, Panna and H. Kayang (2010). Dark septate endophyte and arbuscular mycorrhizal association with potato under field condition in Meghalaya, northeast India. *Mycology: An International Journal of Fungal Biology*, 1(03): 171-78.
- Das, Panna and H. Kayang (2010). Mycorrhizal colonization and distribution of arbuscular mycorrhizal fungi associated with *Michelia champaca* L. under plantation system in northeast India. *Journal of Forestry Research*, 21(2): 137-42.
- Devadasan, N., N. K. Chrungoo, I. Kreft and M. Licen (2010). Molecular characterization of GBSS-I from common buckwheat (*Fagopyrum esculentum* Moench). *Proc. 11th International Symposium on Buckwheat*, Orel, Russia, pp. 455-463, Orel.
- Dkhar, J., S. Kumaria and P. Tandon (2010). Waterlilies (*Nymphaea*) of India: What do morphology, RAPD, PCR-RFLP, and sequence data of nrDNA ITS region, chloroplast *trnK* introns, *matK* and *rbcL* gene tell us about diversification, hybridization and adaptation. *Proceedings of the 1st International Conference on Lotus and Waterlily* held at Kasetsart University, Thailand on the 20-24 Oct, 2010. pp. 80-85.
- Dkhar, J., S. Kumaria, and P. Tandon (2011). Molecular adaptation of the chloroplast *matK* gene in *Nymphaea tetragona*, a critically rare and endangered plant of India. *Plant Genetic Resources* doi: 10.1017/S1479262111000396.
- Dkhar, J., S. Kumaria, S. R. Rao and P. Tandon (2010). Molecular phylogenetics and taxonomic reassessment of four Indian representatives of the genus *Nymphaea*. *Aquatic Botany* 93 (2010) 135-39.
- Gogoi, K., and S. Kumaria (2011). Callus-mediated plantlet regeneration of *Ocimum tenuiflorum* L. using axillary buds as explants. *International Research Journal of Plant Science* 2 (1): 001-05.
- Kumar, S., S. Kumaria, S. K. Sharma, S. R. Rao, and P. Tandon (2011). Genetic diversity assessment of *Jatropha curcas* L. germplasm from Northeast India. *Biomass and Bioenergy* doi:10.1016/j.biombioe.2011.04.025.

Manners, V., S. Kumaria and P. Tandon (2010). Micropropagation of *Vanda coerulea* Griff ex Lindl.: A study of regeneration competence of roots in vitro. In: *Proceedings, International Conference on Environmental Engineering and Applications (ICEEA 2010)*, 10-12 September, 2010, Singapore, Institute of Electrical and Electronics Engineers, Inc., pp. 100-102.

Nakhro, N. and M.S. Dkhar (2010). Impact of organic and inorganic fertilisers on microbial population and biomass carbon in paddy field soil. *Journal of Agronomy*, 9(3); 102-110.

Sangma, S. Ch., N. K. Chrungoo, (2010). Buckwheat Gene Pool: Potentialities and Drawbacks for Use in Crop Improvement Programmes. *Eur. Journal of Plant Science & Biotechnology* 4(1): 45-50.

Sharma, S. K., D. Rawat, S. Kumar, A. Kumar, S. Kumaria and S. R. Rao (2010). Single primer amplification reaction (SPAR) reveals intra-specific natural variation in *Prosopis cineraria* (L.) Druce. *Trees* 24:855-864.

Sharma, S. K., K. Rajkumari, S. Kumaria, P. Tandon and S. R. Rao (2010). Karyomorphological characterization of natural genetic variation in some threatened cymbidium species of northeast India. *Caryologia*, 63(1): 99-105.

Sharma, S. K., S. Kumar, D. Rawat, S. Kumaria, A. Kumar, and S. R. Rao (2011). Genetic diversity and gene flow estimation in *Prosopis cineraria* (L.) Druce: A key stone tree species of Indian Thar Desert. *Biochemical Systematics and*

Ecology, 39: 9-13.

Siangbood, H and P. Ramanujam, (2011). A Report on thermophilic Cyanophyta (Cyanobacteria) from Jakrem Hot Spring, Meghalaya. *International Journal on Algae* 2(13): 178-185.

Singh, Dharendra N, N Venugopal (2011). Cambial activity and annual rhythm of xylem production of *Pinus kesiya* Royle ex. Gorden (Pinaceae) in relation to phenology and climatic factors growing in sub-tropical wet forest of North-East India. *Flora*, 206(3): 198-204.

Venugopal, N, Preeti Ahuja (2011). Relationship between age, size, fecundity and climatic factors in *Panax wangianus* an endangered medicinal plant in the sacred grove forest of North-East India. *Journal of Forestry Research*, 22: DOI 10.1007/s 11676-011-0115-6.

Funds Received

| For Symposium | Amount (Rs. in lakhs) |
|---------------|-----------------------|
| DBT | 1.50 |
| CSIR | 1.00 |
| NEC | 1.50 |
| DST | 0.75 |
| NEHU | 0.35 |
| CAS | 1.00 |
| For Workshop | |
| DBT | 7.50 |

Research Projects

| Source | Amount (Rs. in lakhs) |
|-------------------------------------------------------------------------------------|----------------------------------------|
| Board of Research in Nuclear Sciences (BRNS), Mumbai 2 years w. e. f. April 2011 | 16,44,500 (Total grant = 29,73,500) |

School of Life Sciences

| | |
|---------------------------------|-------------------------------|
| DBT | 21.21 (6.52 + Rs. 14.69) |
| MoEF | 14.00 (Total grant= 41.27) |
| La farge Umiam Mining Pvt. Ltd. | 12.5 |
| DBT | 9.79 |
| DBT | 29.3 |
| WAPCOS | 6.98 |
| Total | 93.95 (approx) |

Grant Total = 107.55 Lakhs

Research Projects

Completed

| Title of the project | Name of the Principal Investigator(s) | Funding agency |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Micropropagation of some medicinally important orchids of North-East India. | Dr. S. Kumaria (PI) | UGC (from 4/1/2007 to 31.3.2010). |
| Species recovery programme for <i>Nepenthes khasiana</i> , <i>Mantisia spathulata</i> , <i>Mantisia wengeri</i> . | Prof. P. Tandon (PI), Dr. S. Kumaria & Prof. N. K. Chrungoo (Co-PIs) | DBT, Government of India (from 4/26/2006 to 31.3.2011). |
| Studies on forest fragmentation and its impact on population ecology of threatened and ethno-medicinal plant species of Khanchendzonga Biosphere Reserve. | Prof. S.K. Barik (PI) | Ministry of Environment and Forests, Govt of India. (from 24 th March 2004 to 30 th September 2008). |

New

| Title of the project | Name of the Principal Investigator(s) | Funding agency | Funds received (Rs. in Lakhs) |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|
| Flora and fauna of Kylleng Pynden Sohiong Mawthabah uranium rich areas of West Khasi Hills, Meghalaya | Dr. H. Kayang | Board of Research in Nuclear Sciences (BRNS), Mumbai | 16,44,500 (Total grant = 29,73,500) |
| Micropropagation of <i>Nardostachys grandiflora</i> and <i>Malaxis wallichii</i> -Two threatened medicinal plants of Northeast India. | Prof. P. Tandon (PI) & Dr. S. Kumaria (Co-PI), Dr. H. Choudhury (Co-PI) | Department of Biotechnology, Ministry of Science and Technology Government of India | 14.69 (Total grant= 28.59) |

NEHU Annual Report 2010-2011

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------|-------------------------------|
| All India Coordinated research project on Reproductive Biology of Four Rare, endangered and Threatened (RET) Tree species namely: <i>Aquilari malaccensis</i> (Thymeleaceae), <i>Gymnocladus assamensis</i> (Caesalpinaceae);, <i>Ilex khasiana</i> (Aquifoliaceae); and <i>Illicium griffithii</i> (Illiciaceae) of North East India particularly in Arunachal Pradesh and Meghalaya | Prof. Venugopal N. | MoEF | 14.00 (Total grant= 41.27) |
| Assessment of Flora and Fauna Biodiversity for the Nongtrai Limestone Mine Site and Surrounding Areas for one season | Prof. S.K. Barik. | Lafarge Umiam Mining Pvt. Ltd., for a period of 1 year | 12.5 (Total Grant) |
| Assessment of Floral and Faunal diversity at the Nongtrai Limestone mine Site and its Surrounding Area for three seasons | Prof. S.K. Barik | Lafarge Umiam Mining Pvt. Ltd., for a period of 2 year | 15.0 (Total Grant) |

Academic Collaboration

The faculty of the department has been collaborating with several national and international institutes. These include:

- Bose Institute, Kolkata
- Tocklai experimental station of Tea Research Association
- ICAR, Barapani
- LEAD International, UK
- Chinese Academy of Sciences (Shenzhen Botanical Garden)
- University of Ljubljana, Slovenia
- United Nations Development Programme, New Delhi
- ICIMOD, Kathmandu
- Kfw and GIZ, Govt. of Germany

Major Infrastructure Facilities

- i A new block comprising four laboratories and eight rooms has been added to the existing department building.
- ii Environment controlled field green house of 75m² area has been installed.
- iii A polyhouse complex has been constructed.

Honours/Awards/Recognition

Prof. Pramod Tandon was appointed as the member of the National Advisory Council in June 2010.

Prof. N. K. Chrungoo was nominated as the Asia Pacific representative to the editorial Board of the Journal *Fagopyrum*. He was also appointed as a member of the institutional biosafety committee of ICAR complex for NER.

Prof. S.K. Barik was awarded the Brandis Prize, 2009, for Best Research Paper in Silviculture from *The Indian Forester*.

The Bioinformatics Centre was upgraded from Sub-DIC to DIC by Department of Biotechnology, Ministry of Science and Technology, Government of India based on its excellent performance and Prof. Pramod Tandon was appointed its Coordinator.

Prof. S.K. Barik was appointed as a member of the Expert Committee of DBT's Species Recovery Programme. He was also appointed as a member of the Technical Advisory Expert Committee on Biodiversity of MoEF and the SEAC under EPA Act, 1986 appointed by MoEF.

Other Academic Activities

Prof. Pramod Tandon presided over the Inaugural Ceremony and delivered the Presidential Address at the international conference on From Land Locked to Land Linked: North-East India in Bimstec on 9-10 April 2010 at NEHU, Shillong. Spoke on the "Need for green, sustainable and energy efficient buildings" at the national seminar on Emerging Trends and Technologies in Building Services organized by the Military Engineering Services, Shillong on 24-25 May 2010. Delivered a talk on 'India's Bamboo mission - impetus for growth' at the Indo-Taiwan Joint Workshop on Bamboo Flowering and Rodent Control (sponsored by Department of Science and Technology, Govt. of India) organized by NEHU on 11-13 November 2010 at Hotel Ginger, Guwahati. Spoke on "Conservation of Biodiversity Developed over a Millennia of Indian Farming" at the North Eastern Zone Regional Agri-Fair organized by ICAR Research Complex for NEH Region at Barapani on 28th February 2011. Delivered an invited talk on "Plant Diversity Perspectives of Conservation" at the workshop on Preventing Extinction and Improving Conservation Status of Threatened Plants through Application of Biotechnological Tools (sponsored by Department of Biotechnology, Ministry of Science and Technology, Govt. of India) on 17-18 March 2011 at NEHU, Shillong.

Prof. N.K. Chrungoo attended the 11th International Symposium on Buckwheat, Orel, Russia, held from July 19-23, 2010. Prof. N. K. Chrungoo was elected as Asia pacific representative to Executive Council, International Buckwheat Research Association, Japan. Was nominated as member, Editorial Board, *Fagopyrum*. Delivered the following two lectures in the Refresher Course organized by Academic staff college, Gauhati University,

Guwahati on 8.10.2010: Nutritional genomics and food security and Abiotic stress and its implication on crop growth and development.

Prof. S.K. Barik attended the *Asia-Pacific Forum on Biodiversity Conservation Research* as an invited speaker to represent India at Senzen, China on 21st May 2010 and delivered a talk on 'Biodiversity of North-Eastern India and Strategies for its Conservation'. Delivered a lead talk on Modelling approach to plant conservation at the national seminar on *Assessment and Conservation of Plant Genetic Resources under Changing Environment* held at NEHU on 8 -10 September 2010, organized by Department of Botany, NEHU, Shillong. Attended the seminar on *Sustainability: Management and Beyond* organised by Indian Institute of Management, Shillong at IIM, Shillong and delivered the lead talk on "Sustainable Management of Natural Resources in North-Eastern India: Experiences and Issues" on 9th December, 2010. Attended the regional workshop on *Biodiversity Conservation* jointly organised by NEHU- NERCOMP, Shillong, and delivered a lead talk on "Conserving Biodiversity through Community Participation and Value addition of Bioresources", on 7th December 2010. Attended the *North-East Agriculture and Marketing Summit* held at Dimapur from 15-19 December 2010 and delivered a lead talk on "Value Addition of Agricultural Products: Experiences from Meghalaya and Tripura" on 18th December 2010. Attended the national conference on Conservation of Sacred Groves to protect local Biodiversity held at Chennai on 12-14 February 2011 and delivered an invited talk on "Issues, Challenges and opportunities in conserving sacred forests: A case study of Meghalaya" on 12th February 2011.

Dr. Suman Kumaria delivered an invited lecture on “Biotechnological approaches in conservation of medicinally important orchids” at the national conference on Medicinal Orchids: Sustainable Use and Benefit Sharing for Rural & Tribal Communities, Chandigarh, March 29-30, 2011. Dr. Suman Kumaria delivered a guest lecture on ‘Applications of Plant Biotechnology’ in St. Edmund’s College, Shillong on August, 21, 2010 under DBT-STAR college status. She was appointed as a member of the Meghalaya Biodiversity Board (w.e.f. March 2009).

Prof. Umashankar was awarded the DBT Overseas Associateship, 2010 as a visiting scholar in the Department of Biology, Concordia University, Montreal, Canada for a period of six months w.e.f. 17th February, 2011.

Prof. N. Venugopal delivered the following two lectures at workshops conducted by Sophisticated Analytical Instrument Facility (SAIF), NEHU, Shillong: Application of SEM in Plant Reproduction and Development on 3-3-2011 and Ultrastructure and Functional aspects of Reproductive organs in Angiosperms on 25-3-2011.

Department of Zoology

Name of the Head : Professor R. N. K. Hooroo
Telephone : 272 2301/04 (O)
E-mail : rnkh@nehu.ac.in

Thrust Areas of Research

The department is engaged in research under the thrust area “Faunal Diversity and Ecophysiology” in various fields such as (i) Biodiversity of helminthes, nematodes, freshwater zooplankton, fishes, amphibians, insects in Northeast region, bioprospection of antihelmintic efficacy of plants used in traditional medicine, (ii) Adrenergic signal transduction in pineal gland, hormonal regulation of oxidative metabolism, and breeding biology of endangered fishes, amphibians and birds, (iii) Mode of action of cisplatin an anticancer drug, and efficacy of putative anticancerous plants from N.E. region, (iv) Biochemical adaptations to nitrogen, carbohydrate, protein and oxidative metabolism, and nitric oxide signaling under various environmental stresses in air-breathing fishes.

Brief Statement of Academic Activities

During the year under report, 30 students were admitted to M.Sc. programme and seven students to Ph.D. programme. The department organized the Indo-Taiwan Joint Workshop on Bamboo Flowering and Rodent Control in continuation of the bilateral programme of Indo-Taiwan Joint Collaboration in Science and Technology (DST, India & NSC, Taiwan) and the Hands-on Training on Techniques used in Biotechnological Research organized under DBT –NER Programme on strengthening of Infrastructure in Biotechnology teaching, training and research in collaboration with the Department of Biotechnology and Bioinformatics. The department also organized the 34th Refresher Course in “Advances in Zoology”. The department completed the final year of DSA scheme under the UGC Special Assistance Programme.

School of Life Sciences

Faculty Profile

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Professors | : V. Tandon, M.Sc. (Hons.), Ph.D. (Panj. U) B. K. Sharma, M.Sc. (Hons), Ph.D. (Panj. U) 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. (Bangalore), Ph.D. (NEHU) |
| Associate Professors | : 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. U) S. Ghosh, M.Sc., Ph.D. (Cal. U) |
| Assistant Professors | : S. Choudhury, M.Sc., Ph.D. (NEHU) S. R. Hajong, M.Sc., Ph.D. (NEHU) B. Das, M.Sc. (Berhampur), Ph.D. (NEHU) |

Student Intake

| | | | | | | | | | |
|--------------------------------------------------|----|----|-----|-----|------|--------|----------------|---------|-------|
| Enrolment capacity: M.Sc. – 30; Ph.D. – Variable | | | | | | | | | |
| Actual Admission: | SC | ST | OBC | Gen | Male | Female | from Meghalaya | Outside | Total |
| M. Sc. | - | 25 | 1 | 4 | 13 | 17 | 19 | 11 | 30 |
| Ph. D. | - | - | - | 7 | 2 | 5 | - | 7 | 7 |

Degrees Awarded

| | SC | ST | OBC | Gen | Male | Female | Total |
|--------|----|----|-----|-----|------|--------|-------|
| M. Sc. | - | 22 | - | 3 | 11 | 14 | 25 |
| Ph. D. | - | 3 | - | 1 | 1 | 3 | 4 |

Ph. D.

Ms. Khamtilin Kharshiing, “*In vitro* studies on adrenergic and cholinergic regulation of aryalkylamine N-acetyltransferase (AA-NAT) activity in the pineal gland of catfish, *Calrias gariepinus*”. Supervisor: Prof. B. B. P. Gupta.

Mr. Jamesteward L. Khongsngi, “Study on adaptive strategies against ammonia toxicity in the amphibious mud eel, *Amphipnous cuchia*”. Supervisor: Prof. N. Saha.

Ms. Saipari Sailo, “Studies on the ecology and biology of *Rana alticola* (Boulenger)”. Supervisor: Prof. R. N. K. Hooroo.

Ms. Shyamashree Dasgupta, “Studies on anticestodal efficacy of *Acacia oxyphylla* (Leguminosae) and *Securinega virosa* (Euphorbiaceae)”. Supervisor: Dr. B. Roy.

Courses Conducted

MSc

Semester I: Cell Biology & Immunology; Biological Chemistry & Molecular Biology; Genetics & Developmental Biology. Semester II: Animal Physiology, Parasitology and Entomology, Techniques in Biology. Semester III: Endocrinology & Reproductive Biology, Aquatic Biology & Fisheries, Animal Diversity.

Semester IV: Biosystematics & Evolution, Ecology & Environmental Biology. Special Papers offered: Biochemical Adaptation and Metabolic Regulation, Developmental Biology, Endocrinology and Reproductive Physiology, Insect Physiology, Molecular Cell Biology & Immunology and Fish Biology.

Study Tour/Field Trips of Students

Dr. B. Roy and Dr. Jamesteward L. Khongsngi took the M. Sc. 3rd semester students on study tour to Kolkata and Digha, and visited various academic and research institutes relevant to the courses in M.Sc. on 3-12 January 2011.

Seminars/Conferences/Symposia etc.

Organized

- i Organized in collaboration with the Department of Biotechnology and Bioinformatics the national workshop on Hands-on Training on Techniques used in Biotechnological Research organized under DBT-NER Programme on strengthening of Infrastructure in Biotechnology teaching, training and research, February 28-March 12, 2011.
- ii Participated in organizing the Regional Seminar on 'Biodiversity Assessment, Conservation and Value addition' organized by the School of Life Sciences, NEHU, Shillong, April 22-23, 2010.

Publications

Published in India

Dixit, A. S. 2011. Photoperiod and biological rhythms in regulation of avian reproduction. In: *Perspectives in Animal Ecology and Reproduction*. Ed.: Gupta V., Daya Publishing

House, Delhi, pp. 24: 348-77.

Gupta, B. B. P., L.Yanthan, and K. M. Singh, 2010. *In vitro* effects of 5-hydroxytryptophan, indoleamines and leptin on arylalkylamine N-acetyltransferase (AA-NAT) activity in pineal organ of the fish, *Clarias gariepinus* (Burchell, 1822) during different phases of the breeding cycle. *Indian Journal of Experimental Biology*, 48: 786-92.

Lalramliana and A. K. Yadav, 2010. Occurrence of entomopathogenic nematodes (Rhabditida: Steinernematidae and Heterorhabditidae) in Meghalaya, NE India. *Science Vision*, 10: 89-100.

Lalthanzara, H. and S. N. Ramanujam, 2010. Effect of fertilizer (NPK) on earthworm population in the agroforestry system of Mizoram, India. *Science Vision*, 10: 159-167.

Prasad, S. B., A. K. Verma, G. Rosangkima, B. Brahma, T. Rongpi, Amenla, J. Arjun, 2010. Antitumor activity of *Mylabris cichorii* extracts against murine ascites Dalton's lymphoma. *Journal of Pharmacy Research*, 3: 3006-3009.

Rosangkima, G., T. Rongpi, S. B. Prasad, 2010. Ethno-medicinal value of some anticancer medicinal plants from Northeast India: an *In Vivo* screening in murine tumor model. *Science Vision*, 10: 123-132.

Roy, B., A. Swargiary, D. Syiem, and V. Tandon, 2010. *Potentilla fulgens* (Family Rosaceae), a medicinal plant of North-East India: a natural antihelmintic. *Journal of Parasitic Diseases*, 34: 83-88. DOI 10.1007/s12639-010-0018-z.

Sharma, B. K. and S. Sharma, 2010. Taxonomic notes on some interesting Cladocerans (Crustacea: Branchiopoda: Cladocera) from Assam (N. E. India). *Records on Zoological Survey of India*, 110: 39-47.

- Sharma, B. K. and S. Sharma, 2010. Notes on new records of monogonont rotifers (Rotifera: Eurotatoria) from floodplain lakes of Assam. *Records on Zoological Survey of India* 110: 49-55.
- Sharma, B. K., 2010. Rotifer communities of Deepor beel, Assam, India: richness, abundance and ecology. *Journal of Threatened Taxa* 2: 1077-1086.
- Sharma, B. K., 2010. Phytoplankton diversity of two floodplain lakes (pats) of Manipur, northeastern India. *Journal of Threatened Taxa* 2: 1273-1281.
- Sharma, B. K. and S. Sharma, 2011. Deepor beel (a Ramsar site) revisited: new records of Rotifers (Rotifera: Eurotatoria) with remarks on interesting species. *Journal of Threatened Taxa* 3: 1437-1444.
- Thapa, S., D. Jyrwa and V. Tandon, 2010. A new report on the occurrence of monogenean parasites (Monogenoidea) on gill filaments of fresh water fishes in Meghalaya. *Journal of Parasitic Diseases*. DOI: 10.1007/s12639-011-0023-x.
- Verma, A. K. and S. B. Prasad, 2010. Antitumor activity of n-butanol fraction of *Mylabris cichorii* extract in murine ascites dalton's lymphoma. *Bulletin of Life Sciences*, XVI: 92-100.
- Tandon, V., D. K. Biswal, P. K. Prasad and C. Malsawmtluangi, 2011. Reconstructing the phylogenetic relationships of the cyclophyllidean cestodes: a case study using ITS2 rDNA and sequence-structure alignment. In: Third International Joint Conference, BIOSTEC 2010, Valencia, Spain, January 20-23, 2010, Revised Selected Papers Series: Communications in Computer and Information Science- Fred, Ana; Filipe, Joaquim; Gamboa, Hugo (Eds.), XIII, 408 p., ISBN: 978-3-642-18471-0 Biomedical Engineering Systems And Technologies-Communications in Computer and Information Science, Volume 127, Part 5, 309-321, DOI: 10.1007/978-3-642-18472-7_24.
- Tandon, V., A. K. Yadav, B. Roy, and B. Das, 2011. Phytochemicals as cure of worm infections in traditional Medicine systems. In: Srivastava, U.C. and Kumar Santosh (Eds): Emerging Trends in Zoology. Narendra Publishing House, 1-27.
- Published Abroad*
- Biswas, K., M. L. Jyrwa, D. Häussinger and N. Saha, 2010. Influence of cell volume changes on protein synthesis in isolated hepatocytes of air-breathing walking catfish (*Clarias batrachus*). *Fish Physiology and Biochemistry*, 36: 17-27.
- Challam, M., B. Roy and V. Tandon, 2010. Effect of *Lysimachia ramosa* (Primulaceae) on helminth parasites: motility, mortality and scanning electron microscopic observations on surface topography. *Veterinary Parasitology*, 169: 214-18.
- Das, I., Rangad, D., R. K. Lyngdoh, K. Deuti and R. N. K. Hooroo, 2010. A new species of *Leptolalax* (Anura: Megophryidae) from the sacred groves of Mawphlang, Meghalaya, North-eastern India. *Zootaxa*, 2339: 44-56.
- Dasgupta, S. and B. Roy, 2010. Antiparasitic activity of methanolic extract of *Acacia oxyphylla* (Leguminosae) against *Raillietina echinobothrida*. *Journal of Parasitic Diseases*, 34: 14-19.
- Dasgupta, S., B. Roy and V. Tandon, 2010. Ultrastructural alterations of the tegument of *Raillietina echinobothrida* treated with the stem bark of *Acacia oxyphylla* (Leguminosae). *Journal of Ethnopharmacology*, 127: 568-71.
- Dixit, A. S. and N. S. Singh, 2011. Photoperiod as a proximate factor in control of seasonality in the subtropical male Tree Sparrow, *Passer*

montanus. *Frontiers in Zoology*, 8:1-12.

Ghatani, S., J. A. Shylla, V. Tandon, A. Chatterjee, and B. Roy, 2011. Molecular characterization of pouched amphistome parasites (Trematoda: Gastrothylacidae) using ribosomal ITS2 sequence and secondary structures. *Journal of Helminthology*. Doi:10.1017/S0022149X11000125.

Goswami, U. C., M. Rahman and N. Saha, 2011. Functional ureogenesis and adaptation to nitrogen metabolism in amphihaline hilsa fish (*Tenualosa ilisha*) while migrating between estuary and freshwater habitats. *Fish Physiology and Biochemistry*, DOI 10.1007/s10754-024-9875-5.

Imkongwapang, R. and V. Tandon, 2010. *Neoriojatrema mokochungensis* n. g., n. sp. (Monogenea: Polystomatidae: Polystomatinae) from the urinary bladder of a megophryid frog, *Xenophrys glandulosa* from Nagaland, Northeast India. *Journal of Helminthology*, 84: 375-80.

Prasad, P. K., V. Tandon and A. Chatterjee, 2011. PCR-based molecular characterization and in-silico analysis of food-borne trematode parasites *Paragonimus westermani*, *Fasciolopsis buski* and *Fasciola gigantica* from Northeast India using ITS2 rDNA. *Bioinformation*, 6: 64-68.

Prasad, S. B., G. Rosangkima and A. Kharbangar, 2010. Structural and biochemical changes in mitochondria after cisplatin treatment of Dalton's lymphoma-bearing mice. *Mitochondrion*. 10: 38-45.

Prasad, S. B., G. Rosangkima and B. M. Nicol, 2010. Cyclophosphamide and ascorbic acid-mediated ultrastructural and biochemical changes in Dalton's lymphoma cells *in vivo*. *European Journal of Pharmacology*. 645: 47-54.

Ramanujam, S. N., M. Manorama and S. Dey, 2010. Ichthyodiversity of Meghalaya. *India Electronic Journal of Ichthyology*, 6: 15-26.

Renthlei, C. Z., A. R. Varman, B. Kharbuli and S. Dey, 2010. Progressive chorion morphology during egg development in *Samia ricini* (Donovan): *Microscopy Research and Technique*, 73: 234-39.

Roy, B., S. Dasgupta and B. R. Giri, 2010. Electron microscopic observations of tegumental surface of *Raillietina echinobothrida* treated with root-peel extract of *Potentilla fulgens*. *Microscopy Research and Technique*, DOI 10.1002/jemt.20972.

Saha, N. L.M. Jyrwa, M. Das and K. Biswas, 2011. Influence of increased environmental water salinity on gluconeogenesis in the air-breathing walking catfish, *Clarias batrachus*. *Fish Physiology and Biochemistry*: DOI 10.1007/s10695-011-9468-1.

Shylla, J. A., S. Ghatani, A. Chatterjee and V. Tandon, 2010. Secondary structure analysis of ITS2 in the rDNA of three Indian paramphistomid species found in local livestock. *Parasitology Research*, DOI 10.1007/s00436-010-2148-8.

Suchiang, P. and B. B. P. Gupta, 2011. A preliminary study on the effects of hyperosmotic stress on plasma levels of thyroid hormones in male catfish, *Clarias gariepinus*. *Journal of Biology and Life Science*, 2: E1-14.

Funds Received

DIT, New Delhi Rs. 25.00 lakhs

Under the DSA programme of UGC Rs. 7.00 lakhs

Ministry of Environment & Forests, New Delhi. Rs. 9.90 lakhs

DBT, New Delhi Rs. 217.00 lakhs

DST, New Delhi Rs. 38.50 lakhs

School of Life Sciences

BRNS-BARC Rs. 40.65 lakhs

UGC, New Delhi Rs. 9.57 lakhs

Research Projects

Completed

1. Studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya. BRNS-BARC, Mumbai, Rs. 30.00 lakhs. PI: Prof. B. Kharbuli.
2. 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. 23.77 lakhs. PI: Prof. N. Saha.
3. 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. 5.62 lakhs. PI: Prof. N. Saha.

Ongoing

1. All India Co-ordinated Project on Capacity Building in Taxonomy - Helminths and Nematodes (AICOPTAX). MoEF, New Delhi, (IX-X plan period, continuing through XI plan) Rs. 6.00 lakhs per annum. PI: Prof. V. Tandon.
2. Status of amphistomiasis and molecular taxonomy of amphistome parasites in mammalian livestock in Northeast India. DBT, New Delhi (2007-) Rs. 26.00 lakhs.
3. North-East Parasite Information and Analysis Centre (NEPIAC): *an in silico approach*". DIT, MCIT, PI: Prof. V. Tandon and Co-PIs: Mr. D. K. Biswal, Information officer, BIC, NEHU, Shillong and Dr. S. Ramachandran, IGIB, New Delhi Rs.135.0 lakhs.

4. Bio-Informatics Centre (Sub DIC) DBT, New Delhi (1999 continuing, Deputy Coordinator: Prof. V. Tandon, Rs. 20.00 lakhs per annum.

5. Ichthyofaunal diversity and studies on the biology of some indigenous ornamental fishes of Meghalaya. MoE&F, New Delhi, Rs.16.63 lakhs. PI: Prof. S. N. Ramanujam.

6. Comparative proteomic and transcriptomic analyses of PEPCK under the influence of *Flemingia vestita* derived phytoestrogen (Genistein)". DBT, New Delhi. Rs. 148.00 lakhs. PI: Dr. B. Das, Co-PIs: Prof. V. Tandon and Dr. A. Sharma, ICGEB, Delhi.

7. 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 lakhs. PI: Prof. B. Kharbuli.

8. Role of proximate factor(s) in timing the seasonal breeding in Passeriformes finches of North-East. DST, New Delhi, Rs. 34 Lakhs. PI: Dr. A. S. Dixit.

9. 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 lakhs. PI: Dr. B. Keshan.

New

1. BRIC - III Biodiversity Informatics: Data Capture and Management. PI: V Tandon, "Establishment of Portal for Indian Bioresource Information Network (IBIN) [Project Coordinator: Dr. K.N. Ganeshaiah, University of Agricultural Sciences, GKVK, Bangalore and Dr. P.S. Roy, Dean Indian

Institute of Remote Sensing (NRSC), Dehradun, under the programme on “National Bioresource Development Board (NBDB)” of DBT, New Delhi, Rs. 31.84 lakhs.

2. “Next Generation Sequencing and Genome Information of Parasite Biodiversity of medico-veterinary significance in North-East India”. PI: V. Tandon (NEHU), Prof. Alok Bhattacharya (PI, JNU Collaborating Centre), under the DBT-NER twinning programme for NE India of DBT, New Delhi. Rs. 78.80 lakhs.
3. Flora and Fauna of Kylleng Pynden Sohiong Mawthabah uranium rich areas of West Khasi Hills, Meghalaya. BRNS-BARC, Mumbai, Rs. 29.73 lakhs. PI: Prof. B. Kharbuli.
4. Influence of hyper-ammonia stress on the expression of multiple glutamine synthetase genes, mRNAs for ornithine-urea cycle enzymes and mitogen activated protein kinase in air-breathing catfish, *Heteropneustes fossilis*. DST, New Delhi, Rs. 38.50 lakhs. PI: Prof. N. Saha.
5. Histopathological and enzymatic studies on toxicity of Cu and Cd in the catfish, *Heteropneustes fossilis* (Bloch) in relation to pH variation; Rs. 8.62 lakhs. UGC, New Delhi. PI: Prof. S. N. Ramanujam.
6. Analysis of molecular signalling proteins and epigenetic factors responsible for regulation of PEPCCK expression. Under the DBT-NER twinning programme for NE India of DBT, New Delhi. Rs. 86.00 lakhs. PI: Dr. B. Das.

Academic/Professional Collaboration

Prof. V. Tandon collaborated with Dr. Rathinam and Dr. Gowri Priya of Aravind Eye Hospital, Madurai on identifying the causative agent of

ocular granuloma in human subjects (in focal areas of Tamil Nadu), in which a cercaria (larval stage) of trematode flukes that occur in fish or avian hosts is suspected to be implicated.

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. Dr. R. Spessert, Department of Functional and Clinical Anatomy, University of Medicine, Mainz, Germany to work on photoperiodic regulation of clock genes in mammalian retina.

Prof. N. Saha collaborated with Prof. D. Häussinger, Director, Department of Gastroenterology, Hepatology and Infectious Disease, Heinrich-Heine University of Düsseldorf, Düsseldorf, Germany to work in the field of cell volume and protein metabolism, molecular mechanism of bile acid excretion and hepatic encephalopathy.

Dr. B. Das collaborated with (i) Dr. A. Sharma, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi to work on the effective modulators from medicinal plants of North East Region for Phosphoenolpyruvate carboxykinase, the enzyme of glycolysis in cestode parasites and of gluconeogenesis in higher vertebrates; and (ii) Dr. Valerie A. Ferro and Dr Alexander I. Gray, SIPBS, University of Strathclyde, Glasgow, Scotland, UK in isolating the phytochemicals and their immunomodulatory effects on cell lines.

Honours/Awards/Recognition

Prof. V. Tandon received (i) the 2nd Professor Archana Sharma Memorial Lecture Award, 2010 from the National Academy of Sciences India (NASI), Allahabad.

Prof. S. B. Prasad was elected as a member of the National Executive Committee of Indian

Association for Cancer Research (IACR), 2010-2011.

Other Academic Activities

Prof. V. Tandon as Deputy Coordinator of Bioinformatics Centre attended (i) “Indo-Taiwan Joint Workshop on Bamboo Flowering and Rodent Control” in continuation of the bilateral programme of ‘Indo-Taiwan Joint Collaboration in Science and Technology (DST, India & NSC, Taiwan)’, November 11-13, 2010; Acted as a Coordinator from the Indian side and presented a paper entitled “Helminth parasitism in rodents in bamboo-growing areas of Mizoram: Potential candidates for biological control”; (ii) “22nd National Congress of Parasitology: Advances in Parasitology: A novel approach towards a disease free world”, University of Kalyani, Kalyani, October 30-November 1, 2010, delivered an invited talk (IT- 7) on “Anthelmintics of plant origin- use of botanicals in traditional medicine” and chaired a session; (iii) attended the “80th Annual session of NASI and National Symposium at” Jaipur National University, December 3-5, 2010.

Prof. B. K. Sharma attended (i) “Regional Seminar on Biodiversity Assessment, Conservation and Value addition”, School of Life Sciences, NEHU, Shillong, April 22-23, 2010, acted as an Organizing Secretary and presented two papers; (ii) “National Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011, acted as an Organizing Secretary and chaired a session.

Prof. B. B. P. Gupta attended (i) “National Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011 and chaired a session.

Prof. S. B. Prasad attended (i) “National

Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011 and chaired a session.

Prof. R. N. K. Hooroo attended the National Conference on “Climate Change Potential Environmental Apocalypse: Human Ethics in Questions”, Synod College, Shillong, October 7-8, 2010.

Prof. B. Kharbuli attended (i) Regional Seminar on “Intellectual Property & Innovation Management in Knowledge Era” at IIT, Guwahati, May 5-6, 2010; (ii) Seminar on “Causes and Effect Climate Change” at Laitumkhrah Presbytery, June 4, 2010; (iii) the sensitizing workshop on Promoting Entrepreneurship in Science and Technology Institutions at Shillong, June 23, 2010; (iv) National Conference on “Climate Change Potential Environmental Apocalypse: Human Ethics in Questions” 2010, Synod College, Shillong, October 7-8, 2010; (v) Attended and presented a paper in the DAE-BRNS Meeting at VECC, Kolkata, November 15-16, 2010; (vi) Attended the international symposium on “Recent Advances in Ecology and Management of Vector and Vector Borne Diseases, DRDE, Gwalior, December 1-3, 2010.

Prof. N. Saha attended (i) “Regional Seminar on Biodiversity Assessment, Conservation and Value addition”, School of Life Sciences, NEHU, Shillong, April 22-23, 2010 and chaired a session; (ii) “National Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011, and chaired a session.

Prof. S. N. Ramanujam attended (i) “National Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011, and chaired a session.

Dr. A. K. Yadav attended (i) “Regional Seminar on Biodiversity Assessment, Conservation and Value addition”, School of Life Sciences, NEHU, Shillong, April 22-23, 2010; (ii) “National Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011.

Dr. A. S. Dixit attended the XXII National Symposium on Chronobiology, Department of Zoology, Kurukshetra University, Kurukshetra, March 15-17, 2011, chaired a session and delivered an invited lecture on “Photoperiodic control of seasonality in reproduction and associated events in some passerine birds”.

Dr. B. Roy attended (i) “International Conference on Challenging and Emerging Dimensions in Medicinal/Herbal Plants and their Products: A Global Perspective”, Chennai, November 26-28, 2010.

Dr. B. Keshan attended (i) “Hands-on Training on Techniques used in Biotechnological Research” organized under “DBT–NER Programme on strengthening of Infrastructure

in Biotechnology teaching, training and research”, February 28-March 12, 2011 and acted as a Deputy Coordinator; (ii) “Regional Seminar on Biodiversity Assessment, Conservation and Value addition”, School of Life Sciences, NEHU, Shillong, April 22-23, 2010; (iii) “National Symposium on Biodiversity Assessment, Conservation and Value Addition”, School of Life Sciences, NEHU, Shillong, March 17-19, 2011; (iv) Participated in the Science Education Panel activities of the Indian Academy of Science and attended the mid-year meeting of the Academy, Bangalore, July 2-3, 2010; (v) Participated in the Science Education Panel activities of the Indian Academy of Science and attended the Seventy-Sixth Annual meeting of the Academy, Goa, November 11-14, 2010; (vi) attended the Seminar on “Molecular Signaling in Biology”, Department of Biochemistry, NEHU, Shillong, March 25, 2011.

Dr. S. R. Hajong attended the workshop on Insect Biodiversity at Lady Keane College, Shillong, November 10, 2010 and delivered a talk.

Chapter VI

SCHOOL OF PHYSICAL SCIENCES

Dean : Prof. H.K. Mukerjee
Telephone : 0364-2550486, 0364-272-2501
Email : himadrinehu@gmail.com

The School of Physical Sciences consists of the departments of Chemistry, Mathematics, Physics and Statistics.

All the departments are involved in postgraduate and PhD teaching and research programmes.

Department of Chemistry

Name of the Head : Prof. B. Myrboh
Telephone : 2722601, 9863021710(M)
E-mail : bmyrboh@nehu.ac.in

Thrust Areas

Organometallic Chemistry, Computational Chemistry, Chemistry of Surfactants, Organic Synthesis.

Brief Statement of Academic Activities

The department offers MSc and PhD programmes. 36 M.Sc. and 13 Ph.D. students were admitted to the department in the year under report. 9 students were awarded Ph.D. degree, 4 students qualified for the CSIR NET

Fellowship, 4 students got CSIR-SRF, and 1 student qualified for the Rajiv Gandhi Fellowship. The UGC has continued to support the department under the SAP-DSA programme during the year. The department also received DST assistance under FIST. A Refresher Course entitled "Current Topics In Chemistry" was conducted by the department from 23rd February to 15th March 2011 with Dr. H. Askari as the Coordinator.

Faculty Profile

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)

NEHU Annual Report 2010-2011

- Associate Professors : A. Lemtur, M.Sc./Ph.D. (NEHU)
 A.K. Chandra, M.Sc./Ph.D. (Burdwan Univ.)
 Ghanashyam Bez, M.Sc./Ph.D. (Gauhati Univ.)
 H. Askari, M.Sc./Ph.D. (AMU)
 T. S. Basu Baul, M.Sc. (Jabalpur); Ph.D. (N. Bengal)
- Assistant Professors : 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)
 S. Mitra, M.Sc. (Vidya Sagar); Ph.D. (IACS, Kolkata)
 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)

Student Intake

| | | | | | | |
|---------------------|-----------|-----------------|-----|------|--------|-------|
| Enrolment capacity: | M.Sc.: 36 | Ph.D.: Variable | | | | |
| Actual Admission: | SC | ST | GEN | MALE | FEMALE | TOTAL |
| M.Sc.: | 1 | 31 | 4 | 26 | 10 | 36 |
| Ph.D.: | 4 | 5 | 4 | 0 | 13 | 13 |

Degrees Awarded

| | | | | | | |
|--------|----|----|-----|------|--------|-------|
| | SC | ST | GEN | MALE | FEMALE | TOTAL |
| M.Sc.: | - | 16 | 5 | 11 | 10 | 21 |
| Ph.D.: | 2 | 2 | 5 | 7 | 2 | 9 |

- (a) Mr. Gajendra Gupa, "Syntheses and Structural Studies of Mono and Binuclear Complexes of Some Transition Metals with N-Based Tetradentate Ligands", Supervisor: Prof. K.M. Rao.
- (b) Mrs. Salma Parveen, "Quantum Chemical Studies – on Hydrogen Bonding Interactions and their Consequences on Bond Properties", Supervisor: Dr. A.K. Chandra.
- (c) Mr. Thirumala Prasad, "Synthesis and Characterization of New Ruthium(II), Rhodium(III) And Iridium(III) Complexes Containing Tridentate and Tetradentate N-bases", Supervisor: Prof. K.M. Rao.
- (d) Mr. Takhellambam Sanjoy Singh,
- (e) Mr. Milan Chandra Dutta, "Synthesis of 1,2,3,4-Tetrahydropyrimidine Analogues from Active Methylene Compounds", Supervisor: Dr. R.L. Nongkhlaw, Jt. Supervisor: Dr. J.N. Vishwakarma.
- (f) Mr. Teiborlang Mukhim, "A Study on the Effect of Electrolytes On the Micellization of Cationic Surfactants", Supervisor: Prof. K. Ismail.
- (g) Mr. Sujit Das, "Physicochemical Studies of Micellar and Microemulsion Systems", Supervisor: Prof. K. Ismail.

- (h) Mr. Oinam Gobin Singh, "A Study on the Adsorption and Micellization Behaviours of Mixed Surfactant Systems", Supervisor: Prof. K. Ismail.
- (i) Ms. Aicydalyne Snaitang, "Effect of Axial Ligand on the Redox Properties of some Metalloporphyrins: Some Physico-Chemical Studies", Supervisor: Dr. A. Lemtur.

Courses Conducted

M.Sc.

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. Topics in Organic Synthesis, Computer Programming in Chemistry, Organometallic Chemistry, Bioorganic Chemistry, Chemistry of Surfactants. Semester III: Inorganic Chemistry-III, Organic Chemistry-III, Physical Chemistry-III, Applications of Spectroscopic Methods, Laboratory Course in Physical Chemistry. Environmental and Anal. Chemistry, Photochemistry, Bioinorganic Chemistry, Natural Products Chemistry, Principles and Applications of Fluorescence Spectroscopy. Semester IV: Inorganic Chemistry-IV. Organic Chemistry-IV, Physical Chemistry-IV Project Work in Inorganic, Organic and Physical Chemistry.

Ph.D

Research Methodologies in Chemistry, Spectroscopic & Crystallographic Techniques in Chemistry, Advanced Inorganic Chemistry, Advanced Organic Chemistry, Advanced Physical Chemistry and Advanced Quantum Chemistry.

Seminars/Conferences/Symposia/Extension Programmes

Organised

The department organized a Two Day National Symposium (supported by NEC, DST, CSIR, UGC and NEHU) on 'Organometallic Chemistry & Organic Synthesis: Highlights and New Perspectives' on 28-29, March 2011 and Professor R.H. Duncan Lyngdoh was the Convener.

The department organized a Six Day Workshop (supported by TIFR & NEHU) on 'Fluorescence Correlation Spectroscopy and Biophotonics' on 8-13, November 2010 and Dr. S. Mitra was the Convener.

Publications

Published in India

Devi, A.S. M.C. Dutta, J.N. Vishwakarma and R.L. Nongkhlaw. 2009. KHSO_4 assisted Michael addition- elimination reactions of formylated acetophenones in water: A facile green synthetic route to 3-(alkyl/aralkyl/aryl)amino-1-aryl-2-en-1-ones. *J. Indian Chem. Soc.*, Vol. 87, 739-42.

Phucho, I.T., A. Nongpiur, R. Nongrum and R.L. Nongkhlaw. 2010 Synthesis of 3,4-dihydropyrimidin-2(1H)-ones and 3,4,5,6,7,8-hexahydroquinazolin-2(1H)-ones via three component cyclocondensation. *Indian J. Chem.* Vol. 39B, 346-50.

Published Abroad

Basu, Smita, Gajendra Gupta, Babulal Das, Kollipara Mohan Rao. 2010. Neutral penta-coordinated diorganotin (IV) complexes derived from *ortho*-aminophenol Schiff bases: Synthesis, characterization and molecular Structures. *J. Organomet. Chem.*, 695, 2098-2104.

Baul, T.S.B, T.S., de Vos, D. 2010. In vitro cytotoxic evaluation of novel

- dichlorodiorgano[*N*-(2-pyridylmethylene) arylamine]tin (IV) derivatives in human tumor cell lines. *Invest. New Drugs*, 28, 609-14.
- Baul, T.S.B., Paul, A., Pellerito, L., Scopelliti, M., Pellerito, C., Singh, P., Verma, P., Duthie, A., de Vos, D., Verma, R.P., Englert, U. 2010. Molecular basis of the interaction of novel tributyltin(IV) 2/4-[(*E*)-2-(aryl)-1-diazenyl]benzoates endowed with an improved cytotoxic profile: Synthesis, structure, biological efficacy and QSAR studies. *J. Bioinorg. Chem.*, 104, 950-966.
- Baul, T.S.B., Paul, A., Pellerito, L., Scopelliti, M., Singh, P., Verma, P., de Vos, D. 2010. Triphenyltin(IV) 2-[(*E*)-2-(aryl)-1-diazenyl]benzoates as anticancer drugs: synthesis, structural characterization, in vitro cytotoxicity and study of its influence towards the mechanistic role of some key enzymes. *Invest. New Drugs*, 28, 587-99.
- Baul, T.S.B., Paul, A., Pellerito, L., Scopelliti, M., Singh, P., Verma, P., Duthie, A., de Vos, D., Tiekink, E.R.T. 2011. Dibutyltin(IV) complexes containing arylazobenzoate ligands: Chemistry, *in vitro* cytotoxic effects on human tumor cell lines and mode of interaction with some enzymes. *Invest. New Drugs*, 29, 285-299.
- Das, S., Jahar Dey, Teiborlang Mukhim and K. Ismail. 2011. Effect of sodium salicylate, sodium oxalate, and sodium chloride on the micellization and adsorption of sodium deoxycholate in aqueous solutions. *J. Colloid Interface Sci.*, doi: 10.1016/j.jcis.
- Das, S., U. Thapa and K. Ismail. 2010. Aggregation and adsorption behaviours of sodium deoxycholate in water-ethylene glycol medium. *Bull. Chem. Soc. Jpn.*, 83, 1352-58.
- Devi, Kh. J. and A.K. Chandra. 2011. Theoretical Investigation of the gas-phase reactions of (CH₃)₂CHOCH₃ with OH radical. *Chem. Phys. Lett.* 502, 23.
- Dey, J. J. Bhattacharjee, P.A. Hassan, V.K. Aswal, S. Das and K. Ismail. 2010. Micellar shape driven counterion binding. Small-angle neutron scattering study of AOT micelle. *Langmuir*, 26, 15802-806.
- Gupta, Gajendra, Kota Thirumala Prasad, Anna Venkateswara Rao, Steven J. Geib, Babulal Das and Kollipara Mohan Rao. 2010. Novel mononuclear η⁵-pentamethyl-cyclopentadienyl complexes of platinum group metals bearing pyrazolylpyridazine ligands: Syntheses and spectral studies. *Inorg. Chim. Acta.* 363, 2287-2295.
- Gupta, Gajendra, Sairem Gloria, Babulal Das and Kollipara Mohan Rao. 2010. Study of new mononuclear platinum group metal complexes containing η⁵ and η⁶ – carbocyclic ligands and nitrogen based derivatives and formation of helices due to N-H—Cl interactions. *J. Molecular. Str.*, 979, 205-13.
- Gupta, Gajendra, Sairem Gloria, Bruno Therrien, Babulal Das and Kollipara Mohan Rao. 2010. Study of half sandwich platinum group metal complexes containing tetradentate N-donor ligand bearing two di-pyridylamine units linked by an aromatic spacer. *J. Organomet. Chem.*, 696, 702-08.
- Gupta, Gajendra, Sairem Gloria, Saphidabha. L. Nongbri, Bruno Therrien and Kollipara Mohan Rao. 2011. Study of complexes of platinum group metals containing nitrogen bases derived from pyridine aldehydes: Interesting molecular structures with unpredicted bonding modes of the ligands. *J. Organomet. Chem.*, 696, 2014-2022.
- Hormi, Mecadon and Bekington Myrboh. 2011. γ-alumina as a recyclable catalyst for the four-component synthesis of 6-amino-4-alkyl/aryl-3-methyl-2,4-dihydropyrano [2,3-*c*]pyrazole-5-carbonitriles in aqueous medium. *Tetrahedron Lett.*, 52, 2523-25.

- Kar, N.K., M.K. Singh and R.A. Lal. 2011. Synthesis and spectral studies on hetero-bimetallic complexes of manganese and ruthenium derived from bis[N-(2-hydroxy-naphthalen-1-yl)methylene]oxaloyldihydrazide., *Arabian J. Chem.*, Doi:10.1016/J.arabj.2010.07.025.
- Lal, R.A., Basumatary, O.B. Chanu, A. Lemtur, M. Asthana, A. Kumar and A.K. De. 2011. Synthesis, characterization, reactivity and electrochemical studies of manganese (IV) complexes of bis(2-hydroxy-1-naphthaldehyde)adipolydihydrazone. *J. Coord. Chem.*, 64: 300-313.
- Lal, R.A., O.B. Chanu, R. Borthakur, M. Asthana, A. Kumar and A.K. De. 2011. Synthesis and characterization of molybdenum (V,VI) complexes derived from bis(2-hydroxy-1-naphthaldehyde) malonoyldihydrazone. *J. Coord. Chem.*, 64, 1393-1410.
- Mitra, S. 2010. Competitive ESIPT in o-hydroxy carbonyl compounds: Perturbation through solvent modulation and internal torsion in hydrogen bonding and transfer in the excited state (Eds. K. Han and G. Zhao), John Wiley & Sons.
- Moyon, N. S. and Sivaprasad Mitra. 2010. On the interaction of luminol with human serum albumin: Nature and thermodynamics of ligand binding. *Chem. Phys. Lett.*, 498, 178 – 183.
- Mukhim, T., J. Dey, S. Das and K. Ismail. 2010. Aggregation and adsorption behavior of cetylpyridinium chloride in aqueous sodium salicylate and sodium benzoate solutions. *J. Colloid Interface Sci.*, 350, 511-15.
- Myrboh, B., Badaker M. Laloo and Pushpak Mizar. 2011. A recent development in the synthesis and application of three and four-Membered Heterocycles. *Current Organic Chemistry*, Vol. 15: 05, 647-56.
- Myrboh, B. and Hormi Mecadon. 2011. Potassium hydroxide impregnated alumina (KOH-alumina) as a recyclable catalyst for the solvent free multi-component synthesis of highly functionalized substituted pyridazines and/or substituted pyridazin-3(2H)-ones under microwave irradiation. *ISRN Organic Chemistry*, doi: 10.5402/2011/406427.
- Parveen, S., A.K. Chandra. 2010. Theoretical investigation of the hydrogen bonding interaction between substituted phenols and simple O- and N-bases, Th. Zeegers-Huyskens. *J. Mol. Struct.* 977, 258.
- Phucho, I.T., S. Tumtin, A. Nongpiur, R. Nongrum and R.L. Nongkhlaw. 2010. Microwave assisted synthesis of 6-methyl-1,2,3,4-tetrahydro-N-aryl-2-oxo-4-aryl-pyrimidine-5-carboxamide and 3,4-dihydropyrimidin-2(1H)-ones under solvent free conditions. *J. Chem. Pharm. Res.*, 2(3):214-22.
- Rohman, Md. Rumum and Bekington Myrboh. 2010. KF-alumina-mediated Bargellini reaction. *Tetrahedron Letters*, 51, 21, 2862.
- Rokhum, Lalthazuala and Ghanashyam Bez. 2011. Excellent synthesis of adipic acid. *Synthetic Communications*. 41, 548-52.
- Saha, M., E. Karim, P. Helissey, J.N. Vishwakarma and R.L. Nongkhlaw. 2010. A facile microwave assisted one-pot synthesis of novel 1-methylhexahydroquinazolin-5(6H)-ones. *Orbital, The Elec.J. Chem.*, 2 (3): 263-70.
- Singh, T. S. and Sivaprasad Mitra. 2010. Interaction of charge transfer fluorescence probe with non-ionic surfactants: Estimation of physico-chemical properties and binding constant. *Eur. J. Chem. I*, 341 – 347.
- Singh, T.S. and Sivaprasad Mitra. 2011. Interaction of cinnamic acid derivatives with serum albumins: A fluorescence spectroscopic study. *Spectrochim. Acta A: Molecular and*

Biomolecular Spectroscopy, 78, 942 – 48.

Vanlaldinpuia, K., H. Atoholi Sema, Lalthazuala Rokhum and Ghanashyam Bez. 2010. An excellent method for CBz-protection of amines. *Chem. Lett.* 39, 228-29.

Funds Received

- (i) DST/DRDO/DAE/BRNS/UGC: 12.7 Lakhs
- (ii) UGC-SAP-DSA Phase-III Programme: 4.20 Lakhs
- (iii) DST-FIST: 111.5 Lakhs
- (iv) OMCOS-2011: 3.30 Lakhs
- (v) FCS Workshop: 7.76 Lakhs

Research Projects

Completed

- (1) Counterion binding-interfacial property correlation for AOT micelles. DST, New Delhi, Principal Investigator: Prof. K. Ismail.
- (2) 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.

New

- 1. “Studies on fluoride contamination of drinking water in the region and development of a cost effective method for defluoridation using indigenous materials”, DRDO, Principal Investigator: Prof. K. Ismail.
- 2. New synthetic aspects and catalytic study of late transition metal complexes bearing homo and heteroscorpionate and N-heterocyclic carbenes as ligands, UGC, Principal Investigator: Prof. K.M. Rao.

Ongoing

- (1) Construction and multisite commissioning multiple fluorescence correlation spectrophotometers (a single molecule

biophotonic tool), Co-Investigator: Dr. S. Mitra. Sponsored by Dept. of Information & Technology, Ministry of Communications & Information Technology, Govt. of India, New Delhi.

- (2) Spectroscopy and dynamics of photoinduced processes in homogeneous and biomimetic environments. Dr. S. Mitra. Sponsored by UGC, New Delhi.
- (3) Comparative studies on degradation and mineralization of some azo dyes by radiolysis and photolysis” Principal Investigator: Dr. M.K. Sahoo. Sponsored by BRNS, Mumbai.
- (4) Fluorescence studies on representative intramolecular photoprocesses in homogeneous and continued environment” Principal Investigator: Dr. S. Mitra, Sponsored by DAE/BRNS, Mumbai.

Academic Collaboration

Prof. K. Ismail has academic collaboration with (i) Dr. P.A. Hassan and Dr. V.K. Aswal, Bhabha Atomic Research Centre, Mumbai (ii) Dr. S. Mahiuddin, North-East Institute of Science and Technology, Jorhat, Assam.

Prof. R.A. Lal is in collaboration with Dr. A. Kumar, Faculty of Science and Agriculture, the University of West Indies.

Prof. K. M. Rao has academic collaboration with Dr. Therrien Bruno, Institut de Chimie, Université de Neuchâtel, Switzerland and Dr. Yuriy Mozharivskyj, McMaster University, Ontario, Canada.

Prof. R.H. Duncan Lyngdoh collaborated with Prof. F. Wang of the Centre for Molecular Simulation, Swinburne University of Technology, Melbourne, Australia.

Dr. A.K. Chandra has research collaboration with the Quantum Chemistry Group of the University of Leuven, Belgium.

School of Physical Sciences

Dr. T. S. Basu Baul has academic collaboration with Università di Palermo, Italy; Virije Universiteit Brussel, Belgium; University of Zurich, Switzerland; Pharmachemie BV, Haarlem, The Netherlands; Università di Camerini, Italy; The University of Texas at San Antonio, USA; University of Malaya, Malaysia; University of the District of Columbia, USA; Universiti Sains Malaysia, Malaysia.

Dr. M. K. Sahoo is collaborating with Dr. D. B. Naik, BARC, and with Prof. B.S.M. Rao, the National Centre for Free Radical Research, Pune University.

Dr. S. Mitra has research collaboration with D. Kumar, BITS, Pilani and Dr. A. Bhasikuttan, BARC, Mumbai.

Other Academic Activities

Prof. R.K. Poddar delivered six lectures on "Symmetry, Group Theory and Applications" at the Refresher Course organised by the Department of Chemistry, Sikkim Manipal Institute of Technology, Majitar, Sikkim from 8th to 10th December 2010.

Dr. A.K. Chandra delivered (i) an Invited Lecture on "Electronic Origin of Red-, Blue-shifting Hydrogen Bonds and Blue Shifted Bonds: A Subtle Balance of Hyperconjugation and Rehybridization" at the National Symposium on Global Trends in Modern Chemistry (NSGTMC-2010) held at St. Anthony College, Shillong, December 7-8, 2010 and (ii) Presented a poster on "Theoretical Investigation on the Gas-Phase Reactions of $(CF_3)_2CHOCH_3$ with OH Radical" at the Theoretical Chemistry Symposium (TCS-2010), held at IIT, Kanpur; December 8-12, 2010.

Dr. S. Mitra presented a poster at the 3rd Asia Pacific Symposium on radiation chemistry

(APSRC – 2010) and DAE-BRNS 10th biennial Trombay Symposium on Radiation & Photochemistry (TSRP – 2010), Lonavala, India, 14-17 September 2010.

Dr. T.S.B. Baul (i) delivered Invited Talks on: (i) Organotin (IV) carboxylates: Synthetic adventures, Opportunity and Challenges at the *National Conference on Frontiers in Chemical Sciences FICS-2010*, Department of Chemistry, Indian Institute of Technology, Guwahati, 3-4 December; (ii) Composition Tailored Architectures in Organotin (IV) Carboxylates: Syntheses, Structures and Cytotoxic Potential, *National Seminar on Global Trends in Modern Chemistry NSGTMC-2010*, Department of Chemistry, St. Anthony's College, Shillong, 7-8, December; (iii) Exploring Structural Possibilities in Organotin (IV) 2- $\{[(E)-1-(2-hydroxyaryl)alkylidene]amino\}$ - acetate Systems: Synthesis, Architectures and Cytotoxic Efficacy at the national conference on Recent Advances in Synthesis and Catalysis, RASC-11, Department of Chemistry, Dibrugarh University, Dibrugarh, 10-12, February 2011, (iii) Organotin (IV) Carboxylates: Synthetic Adventures, Structural Characterization and Progress towards Developing Potent Antitumour Agents, at the national conference on Frontiers in Chemistry, Department of Chemistry, North Bengal University, Darjeeling, 14-16, March, 2011.

Dr. M.K. Sahoo attended (i) International Conference on Advanced Oxidation Processes, M. G. University, Kottayam, September 18 to 21, 2010 and (ii) National Symposium on Radiation and Photochemistry 2011, JNV University, Jodhpur, March 10 to 12, 2011.

Department of Mathematics

Name of the Head : Professor S.S. Khare
 Telephone : 2722711, 2722719(O)
 Email : kharess@rediffmail.com

Thrust Areas

Thrust areas of the department are: Algebra, Algebraic and Differential Topology, Cosmology, Number Theory, and Oceanography.

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. Our department conducted regular seminar and colloquia on the topics in the thrust areas of research.

Brief Statement of Academic Activities

In the year under review, the department continued to run M.Sc., M.Phil and Ph.D courses in different areas of mathematics like

Faculty Profile

Professors:

| Name of the faculty | Degree | Institution |
|---------------------|---------|----------------------|
| Prof. S.S. Khare | D.Phil. | Allahabad University |
| Prof. M.B. Rege | Ph.D. | Bombay University |
| Prof. H.K. Mukerjee | D.Phil. | Allahabad University |

Associate Professors:

| | | |
|-----------------------|-------|--------------------------|
| Dr. P.K. Saikia | Ph.D. | Wisconsin University |
| *Dr.(Mrs) C.R. Mondal | Ph.D. | Vishwabharati University |
| Dr. A.K. Das | Ph.D. | NEHU |
| Dr. M. Ansari | Ph.D. | Gorakhpur University |
| Dr. K.K. Singh | Ph.D. | Gorakhpur University |

*Dr.(Mrs.) C.R. Mondal took voluntary retirement on January 14, 2011.

Assistant Professors:

| | | |
|-------------------------|--------|------|
| Dr. Sanghita Dutta | Ph.D. | NEHU |
| Dr. A.M. Buhphang | Ph.D. | NEHU |
| A. Tiken Singh | M.Phil | NEHU |
| John Paul Jala Kharbhih | M.Sc. | NEHU |

Student Intake

Enrolment capacity: M.Sc.: 36, Ph.D.: Unspecified

School of Physical Sciences

Actual Admission

| | SC | ST | Gen | Male | Female | Total |
|----------|----|----|-----|------|--------|-------|
| M.Sc. | - | 32 | 4 | 28 | 8 | 36 |
| M. Phil. | - | - | - | - | - | 0 |
| Ph.D. | - | 1 | 4 | 3 | 2 | 5 |

Degrees Awarded

M.Sc

| SC | ST | Gen | Male | Female | Total |
|----|----|-----|------|--------|-------|
| - | 13 | 4 | 10 | 7 | 17 |

M.Phil

| Candidates | Title of Research | Supervisor's Name |
|-------------------------|-----------------------------------------------------------------------|-------------------|
| Ms. Jutirekha Dutta | A study of finite groups in terms of their centralizers | Dr. A.K. Das |
| Ms. Sarbani Konwar | A study of finite groups in terms of their order classes | Dr. A.K. Das |
| Ms. Bineeta Nath | Shock waves in conducting and non-conducting non-ideal gases | Dr. K.K. Singh |
| Ms. Sarujinee Gogoi | Shock waves in a mixture of a non-ideal gas and small solid particles | Dr. K.K. Singh |
| Ms. Wannarisuk Nongbsap | Rings over which some classes of modules are injective – A Survey | Dr. A.M. Buhphang |
| Mr. Tikaram Subedi | Rings over which some classes of modules are flat – A Survey | Dr. A.M. Buhphang |
| Mr. Bharat Borah | Dark energy and the accelerating Universe | Dr. M. Ansari |

Ph.D

| Candidates | Title of Research | Supervisor's Name |
|----------------------|---------------------------------------------------------------------------------|-------------------|
| Mr. Rajat Kanti Nath | Commutativity degree, its generalizations, and classification of finite groups. | Dr. A.K. Das |

Courses Conducted

M.Sc.

1st Semester: Linear Algebra, A.M.E.S., Analysis I, Classical Mechanics, O.D.E. 2nd Semester: Analysis II, Algebra I, Topology, P.D.E., Fortran

Programming. 3rd Semester: Programming in C and Applications, Computer Practical, C.F.T., E.N.T., Theory of field extensions, Tensor analysis and Riemannian geometry. 4th Semester: C.N.A., Ring Theory, Algebraic

Topology, Theory of Relativity, Discrete Mathematics.

M.Phil.

Fluid dynamics, Nonlinear dynamical systems, Mathematical Methods, p-adic Analysis, Discrete Mathematics, Research Methodology, Advanced Ring Theory, Advanced Group Theory, Character Theory.

Ph.D

Research Methodology, Fluid dynamics, Magnetogasdynamics, Commutative Algebra, Rings of continuous functions.

Seminars/Conferences/Workshops/Extension Programmes

Organized

The department has organized an “International Satellite Conference on Rings and Near-rings (ISCRNR 2010)” from 30th August, 2010 to 11th September, 2010. Prof. M.B. Rege was the convener of this conference. The department has organized a Refresher Course in Mathematics from November 25 to December 15, 2010. Dr. K.K. Singh was the course coordinator. The Indian National Mathematical Olympiad- 2011 (INMO-2011) was held in the department on February 6, 2011. It was preceded by an orientation camp held in NEHU campus from January 28 to February 5, 2011.

Attended

Prof. S.S. Khare attended the Topology Meet at the University of Manchester, U.K. on January 10, 2011 sponsored by British Mathematical Society and delivered a talk entitled “Span of Dold and Wall manifolds”.

Prof. M.B. Rege participated in the International Mathematical Olympiad Training Camp (IMOTC) held in Homi Bhabha Centre for Science Education (HBCSE-TIFR) Mumbai, from April 29 to May 12, 2010 and delivered six

lectures; attended the ‘International Satellite Conference on Rings and Near-rings’ held at NEHU, Shillong during August 30 – September 11, 2010; was one of the three teachers who escorted the Indian team which competed in the 51st International Mathematical Olympiad held in Asthana, Kazakhstan, in July 2010; delivered four lectures in a pre-INMO training camp held in the Indian Statistical Institute, Kolkata Centre on December 27-31, 2010.

Prof. H.K. Mukerjee attended ICM 2010 held at Hyderabad on August 19-27, 2010; delivered a talk on “Homology and Dynamical Systems” at the 76th Annual Conference of Indian Mathematical Society, during December 27-30, 2010 at Surat.

Dr. P.K. Saikia acted as a Resource Person in the ATML for Linear Algebra held at IIT-Guwahati during July 5-17, 2010.

Dr. A.K. Das attended ICM 2010 held at Hyderabad during August 19-27, 2010; presented a paper entitled ‘On solutions of a class of equations in a finite group’ at GAC 2010 held at HRI, Allahabad during September 1-12, 2010; delivered a talk entitled ‘How to fill gaps with GAP at Workshop on Algebra and Number Theory held at Tezpur University, Tezpur, during December 22-26, 2010.

Publications

Published in India

Ansari, M., Implications of One-Loop Quantum correction in the Background Geometry of 5-dimensional Kaluza-Klein Cosmology. *Journal of the Tensor Society*, (2010) Vol. 4: 77-86.

Ansari, M., Dirac Equation in a 5-Dimensional Kaluza-Klein Theory. *Indian Journal of Pure and Applied Math.* (2010) Vol. 41, No. 6: 715-736.

School of Physical Sciences

Published Abroad

Ansari, M., J. Dutta and S. Chakraborty, Holographic Dark Energy and validity of the Generalized Second law of Thermodynamics in the DGP Brane World. *Modern Physics Letters*, (2010) Vol. 25 No. 36: pp 3069-3079.

Ansari, M., J. Dutta and S. Chakraborty, Non-linear equation of state and effective phantom divide in Brane Models. *International Journal of Theoretical Physics*, Published online: August 24, 2010 (Springer Science).

Das, A.K., On a lower bound of commutativity degree. *Rendiconti del Circolo Matematico di Palermo*, 59(2010): 137-142.

Das, A.K., On generalized commutativity degree of a finite group. *International Electronic Journal of Algebra*, 7(2010): 140-151.

Singh, K. K., 2011. *Textbook of Dynamics*. PHI Learning Private Limited, New Delhi.

Funds Received

University Grants Commission (SAP-DRS-I):
Rs. 18.4 lakhs

University Grants Commission (BSR): Rs. 20.0 lakhs

Organizing Committee of International Congress of Mathematics, 2010: Rs. 5.0 lakhs

Research Projects

Ongoing

National Board for Higher Mathematics, Department of Atomic Energy Research Project “Some Classification Problems in Higher and Lower Dimensional Topology” under Prof. H.K. Mukerjee.

Academic Collaboration

Prof. M.B. Rege and Dr.A.M. Buhphang collaborated with Prof. Abdullah Harmanci, Hacettepe Üniversitesi Matematik Bölümü Beytepe, Ankara Türkiye.

Dr. A.K. Das collaborated with Prof. M.R. Pournaki Sharif, University of Technology, Tehran, Iran.

Other Academic Activities

Prof. S.S. Khare gave an invited talk at the Department of Mathematics, University of Manchester on “Span of specific manifolds” on July 20, 2010. He gave an invited talk entitled “On Fibonacci Numbers” at the Department of Mathematics, Gauhati University on March 23, 2011.

Department of Physics

Name of the Head : Prof. P. N. Pandita
 Telephone : 0364-2722801 (o)
 Email : ppandita@nehu.ac.in

Thrust Areas

Solid State Physics, High Energy Physics, Laser Physics, and Nuclear Physics.

Brief Statement of Academic Activities

In addition to teaching M.Sc. classes, 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 Profile

| | | |
|----------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Professors | : | Dr. P. Shukla, M.Sc. (IIT, Delhi), Ph.D. (Temple) Dr. P.N. Pandita, M.Sc.(Kashmir), Ph.D.(Kashmir) Dr. Y.S. Jain, M.Sc. (Agra), Ph.D. (IIT Kanpur) (until September 30, 2010) Dr. B.M. Jyrwa, M.Sc.(NEHU), Ph.D. (NEHU) Dr. P. Nongkynrih, M.Sc.(NEHU), Ph.D. (NEHU) Dr. S. Kumar, M.Sc.(BHU), Ph.D.(Utkal) Dr. D.T. Khathing (on lien) M.Sc. (Delhi); Ph.D. (Kolkata) |
| Associate Professors | : | Dr. M.C. Mahato, M.Sc.(Ranchi), Ph.D.(IISc. Bangalore) Dr. S.S. Khatri, M.Sc.(NEHU), Ph.D. (NEHU) Dr. Y.N. Tiwari, M.Sc.(Patna), Ph.D(Patna), LL.B.(Patna) Dr. A. Saxena, M.Sc.(Rohilkhand), M.Phil.(Meerut), Ph.D.(NEHU) |
| Reader | : | Dr. A.K. Biswas, M.Sc.(IIT Kharagpur), Ph.D. (Utkal). |
| Assistant Professor | : | Dr. S.S. Pohlong, M.Sc.(NEHU), Ph.D.(NEHU) |

Student Intake

| | | | | | | |
|---------------------|------|----|------|----------|--------|-------|
| Enrolment capacity: | MSc: | 32 | PhD: | Variable | | |
| Actual Admission: | SC | ST | Gen | Male | Female | Total |
| MSc: | 0 | 30 | 02 | 24 | 08 | 32 |
| PhD: | 0 | 1 | 0 | 1 | 0 | 1 |

Degrees Awarded

| | | | | | | |
|-----|----|----|-----|------|--------|-------|
| | SC | ST | Gen | Male | Female | Total |
| MSc | 01 | 18 | 03 | 14 | 08 | 22 |

Courses Conducted

Semester I - Classical Mechanics, Quantum Mechanics I, Mathematical Physics, Laboratory I.
 Semester II - Electrodynamics, Electronics,

Quantum Mechanics II, Laboratory II. Semester III - Nuclear Physics I, Solid State Physics I, 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 II, High Energy Physics, Laser Physics, and Nuclear Physics II.

Seminars/Conferences/Workshops/Extension Programmes

Attended

Dr. M.C. Mahato presented a paper on “Stochastic resonance in periodic potentials” at the 6th National Conference on Nonlinear Systems and Dynamics, organized by the Centre for Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirapalli. He also presented a paper on “Solution of Langevin Equations” at the national workshop on Computational Physics, organised by Mizoram University, Aizawl and University of Hyderabad on 27-30 January, 2011.

Prof. B.M. Jyrwa presented a paper on “Study of neutron scattering from Th 232 Th from the energy range from 10-20 MeV using Poschl-Teller potential” at the BRNS-DAE Symposium on Nuclear Physics Birla Institute of Technology & Science, Pilani, Rajasthan.

Publications

Published in India

Tiwari, Y. N. 2011. *Essential Formulas, Integrals and Transforms for Physicists*. New Delhi: Central Book Agency.

Published Abroad

Huitu, Katri, Jari Laamanen, P. N. Pandita and Paavo Tiitola, (2010) “Implications of different supersymmetry breaking patterns for the spectrum and decay of neutralinos and charginos” *Physical Review*, D82, 115003.

Patra, P.K. and S. Kumar, (2010) “Upper bound on the load on a cantilevered thick multiwalled carbon nanotube”. *Proceedings of the*

International Conference on Advanced Nanomaterials and Nanotechnology, 1276, 401.

Saikia, S. and M.C. Mahato, (2010) “Deterministic inhomogeneous inertia ratchets”, *Physica A*, 389, 4052.

Shukla, Prabodh and R. S. Kharwanlang, Critical hysteresis in random-field XY and Heisenberg models, *Physical Review*, E 83, 011121.

Walia, D., A.C. Lyngdoh, A. Saxena (2010) Seismotectonic zones demarcation in the Shillong Plateau using the microearthquakes and radon emanation rate. *Acta Geophysica*, Vol.58.

Funds Received

Prof. P.N. Pandita received Rs. 13.60 lakhs and J.C. Bose Fellowship.

Research Projects

Completed

Structural mapping of the area around south of Tailing disposal area site, Domiasiat, BRNS-DAE, PI – Dr. D. Walia, co-investigator – Dr. A. Saxena.

New

Dr. B.M. Jyrwa, Exfor Compilation of Nuclear Data, BRNS-DAE.

Academic Collaboration

Prof. P. N. Pandita collaborated with Helsinki Institute of Physics, University of Helsinki, Finland, Indian Institute of Science, Bangalore, and Birla Institute of Science and Technology, Pilani.

Dr. A. Saxena collaborated with Dr. D. Walia, Assoc. Prof., Department of Environmental Studies, NEHU, Shillong, Prof. K.K. Dwivedi, Vice Chancellor, APEEJAY Satya University, Gurgaon, and Prof. Robert Buenker, Bergische Universitat, Wuppertal, Germany.

Prof. B.M. Jyrwa was actively involved with IAEA Nuclear Data Section from Vienna whereby the

nuclear data received from IAEA is being evaluated and compiled here.

Major Infrastructure Facilities

- (i) Eight-node Linux cluster (approximate cost = 14.00 lakhs).
- (ii) He-Cd laser with Windows based data acquisition system (order placed, Approximate cost = 20.00 lakhs).
- (iii) High magnification microscope with peripherals (approximate cost = 2.50 lakhs).
- (iv) LCD projector (approximate cost = 0.9 lakhs).

Honours/Awards/Recognition

Prof. P. N. Pandita was invited as a Distinguished Visitor by the Scottish Universities Physics Alliance to University of Glasgow, United Kingdom. He delivered three lectures at the graduate school during this visit in January-February, 2011. He was appointed as an Honorary Senior Research Fellow by the University of Glasgow, United Kingdom during the year 2010-2011.

Other Academic Activities

Prof. Satish Kumar attended a workshop on Modeling Biological Systems on October 25-29, 2010. Also acted as the Convener of the local organizing committee of this workshop. Gave an invited talk entitled "A model of a two-prey one predator biological system". Also presided a session in this workshop.

Prof. P.N. Pandita attended the 45th annual meeting of the Finnish Physical Society and the second Nordic Physics meeting on "Sharing Methods, Exchanging Ideas" from 29.3.2011 to 31.3.2011 held in Helsinki, Finland.

Prof. B.M. Jyrwa attended the Second DAE BRNS Workshop on 'Covariance Error Matrix in Nuclear Data and its Applications in Reactor Fuel Cycle and Technology' from 29th November to 3rd December, 2010. She attended the 4th DAE-BRNS theme meeting on EXFOR Compilation of Nuclear Data held during 4-8 April 2011 at the Department of Physics, Panjab University, Chandigarh. She interacted with the former Head of Nuclear Data Section, IAEA, in connection with EXFOR Compilation of Nuclear Data held at VECC Kolkata from 12th to 15th April 2011.

Prof. P. Shukla delivered an invited talk on "Nonequilibrium phenomena in random-field models" at the School of Physical Sciences, Jawaharlal Nehru University, New Delhi, on Feb. 2, 2011. He delivered an invited talk on 'Nonequilibrium phenomena in random-field models' at the Harish-Chandra Research Institute, Allahabad, India, on Feb. 7, 2011. He delivered an invited talk on "A physics of phase transitions", Tezpur University, Tezpur, India, Feb. 28, 2011.

Prof. B. Jyrwa was Technical Convener in the "2010 for Innovation in Science Pursuit for Inspired Research (INSPIRE)" a DST sponsored programme held at the NEHU, Shillong, Meghalaya, India from 13th to 17th of December 2010.

School of Physical Sciences

Department of Statistics

Name of the Head : Dr. T.K. Chakrabarty
Telephone : 272-2901, 2902
Email : hodsta@nehu.ac.in

Thrust Areas

Design of Experiments, Statistical Ecology,
 Medical Statistics and Economic Statistics.

Brief Statement of Academic Activities

The department offers M.Sc., P.G. Diploma in

Statistics and M.Phil/Ph.D. Programmes. It also offers a wide range of open courses. The department also provides teaching support to the Department of Zoology for teaching the course Techniques in Biology.

Faculty Profile

Professors : G Das, M.A.(Delhi Univ.), Ph.D.(NEHU)
 S.M. Bendre, M.Sc.,M.Phill., Ph.D.(Pune Univ.)
Associate Professors : M.K. Das, M.Sc., Ph.D.(Dibrugarh Univ.)
 T.K. Chakrabarty, M.Stat.(Agra Univ.),Ph.D.(Manipur Univ.)
 B.K. Gupta, M.A.(Rohilkand Univ.), M.Sc.(A.M.U), Ph.D (Gauhati Univ)
Assistant Professors : S.K. Jha, M.Sc.,Ph.D (Patna Univ)
 R. Singh, M.Sc.,Ph.D (Patna Univ.)
 Ch. H. Singh, M.Sc. (Manipur Univ.), Ph.D.(IIPS, Mumbai)

Student Intake

| | | | | | | |
|-------------------------------|----|-----------------|-----|----------------|--------|-------|
| Enrolment Capacity: M.Sc: 25, | | PG Diploma: 10, | | Ph.D: Variable | | |
| Actual Admission | | | | | | |
| | SC | ST | Gen | Male | Female | Total |
| PG Diploma | | 8 | 2 | 5 | 5 | 10 |
| M.Sc. | | 19 | 6 | 19 | 6 | 25 |

Degrees Awarded

| | | | | | | |
|------------|----|----|-----|------|--------|-------|
| | SC | ST | Gen | Male | Female | Total |
| M.Sc. | | 5 | 1 | 3 | 3 | 6 |
| PG Diploma | | 5 | - | 4 | 1 | 5 |

PhD

Mr. Phrangstone Khongji, "Studies on some preliminary test estimators in double sampling".
 Supervisor: Prof. G. Das.

Courses Conducted

M.Sc.

Semester – I: Mathematical Analysis, Linear

Algebra, Probability Theory, Distribution Theory I, Distribution Theory II, Distribution, Computing & Programming (Practical).
 Semester – II: Sample Survey, Statistical Inference I, Linear Models & Regression Analysis, Sample Survey(Practical), Statistical Inference I & Regression Analysis (Practical),

Introduction To probability Theory and Distributions, Introduction to Sample Survey, Linear Programming. Semester – III: Design of Experiments, Statistical Inference II, Statistics for National Development & Environmental Statistics, Design of Experiments (Practical), Statistical Inference II (Practical), Introduction to Design and Analysis of Experiments, Introduction to Econometrics, Biometry/Survival Analysis. Semester – IV: Applied Multivariate Analysis, Time Series Analysis & Forecasting, Stochastic Processes, Applied Multivariate Analysis (Practical), Time Series Analysis and Forecasting (practical), Project Work, Statistical Computing.

PG Diploma

Semester – I: Descriptive Statistics, Numerical Analysis and Elements of Probability Theory, Distribution

Theory, Practical 1, Practical 2, Mathematics, Vital and Official Statistics, Biometry. Semester – II: Statistical Inference, Sample Survey Methodology, Analysis of Variance and Design of Experiments, Economic Statistics, Linear Algebra, Practical 1, Practical 2, Linear Programming, Introduction to Econometrics. Techniques in Biology (for IInd Semester students, Department of Zoology).

Seminar/Conferences/Symposia/Workshop/Extension Programmes

Attended

R. Singh presented a paper entitled “New Computational Formulae of Gender-related and Human Development Indices for Improvement Over the Existing Computational Formulae” at the 7th International Conference on Environmental, Cultural, Economic & Social Sustainability held at University of Waikato, Hamilton (New Zealand) on 5th – 7th January 2011.

Publications

Published in India

Singh, R, (2010) “Development of Least Squares: A Survey”, *The IUP Journal of Computational Mathematics*, Vol. III, No. 1, pp. 54 – 84, Available at SSRN: <http://ssrn.com/abstract=1578073>.

Singh, R, (2010) “A Survey of Ridge Regression for Improvement Over Ordinary Least Squares”, *The IUP Journal of Computational Mathematics*, Vol. III, No. 4, pp. 54 – 74, Available at SSRN: <http://ssrn.com/abstract=1750091>.

Published Abroad

Chakrabarty, T.K, (2011). Under-nutrition among Children in India: Evidences of Gender Inequality from North-East India. In *Gender Deprivation and Empowerment of Women* (Edited by De, U.K. and Ghosh, B.N), Lambert Academic Publishing GmbH & Co., 165-81.

Research Projects

Completed

Comparative studies on selected forest sampling techniques with satellite remote sensing inputs. Funding Agency: Department of Space, Government of India, Under “Earth Observation Application Mission”. Project Investigator: Prof. G. Das. In collaboration with NESAC, Shillong and Forest Department, N.C. Hills Autonomous District Council.

New

Prof. S. K. Jha is the Principal Investigator of the ongoing project “Extent and distribution of Forest based artisans in Assam and Arunachal Pradesh”, started in March 2011, Regional Centre, National Afforestation and Eco-Development Board, NEHU, Shillong, for one year starting from March 2011, funded by Ministry of Environment and Forestry, Government of India.

Other Academic Activities

Dr. T. K. Chakrabarty delivered lectures on “Introduction to Bootstrap Methods” at a UGC sponsored Refresher Course on Applications of Statistics in Social Sciences held in Manipur University from 9.11.2011 to 12.11.2010.

Dr. S. K. Jha served as ‘Statistical Adviser’ to the ongoing project “Baseline Survey for Provision of Infrastructure (Sewerage and solid waste management) for Greater Shillong Planning Area (GSPA)” of Professor B.S. Mipun, Sept – Oct, 2010, Dept. of Geography, NEHU, Shillong, funded by ‘Mott MacDonald Pvt. Ltd. Ahmedabad. Lead the travelling workshop/exposure visit to successful model of medicinal plants garden in Foundation for Rehabilitation of Local Health Traditions (FRLHT), Bangalore, on 20 – 27, February 2011. Organised one day regional seminar on Biodiversity of North-East India-Issues and Concerns at NEHU, Shillong

on 22 May 2010. Organised and participated in the workshop on Principles and Procedures of Qualifying for Carbon Credit by Reducing Emissions from Deforestation and Forest Degradation (REDD) under Clear Development Mechanism in the State of Meghalaya on 9-11 September, 2010 at NEHU, Shillong. As Guest Faculty taught partly the paper “Nursing Research and Statistics” to the final year students of B.Sc. Nursing in the college of Nursing, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong, during July – August 2010.

Prof. G. Das presented (jointly with Handique, B.K.) a paper titled “Classification of spatial attributes with GIS and spatial statistics analysis” at the Annual Conference & National Seminar of Ind. Soc. of Agri. Statistics on Statistics and Informatics for Massive Data Sets on December 3-5, 2010.

Chapter VII

SCHOOL OF SOCIAL SCIENCES

Dean : Prof. L.S. Gassah
Telephone : 2723001 2723002 (O)
Email : lsgassah@gmail.com

The School of Social Sciences consists of the departments of Cultural and Creative Studies, History, Law, Political Science, and Sociology. The School has a total strength of 45 faculty members. Departments of Political Science, History, and Sociology offered postgraduate courses in their respective disciplines and the Department of Cultural and

Creative Studies offered the same in Folkloristics and P.G. diploma in Music and Painting. The Department of Law offers a Five Year Integrated Programme of B.A., LL.B (Honours). The various departments organized seminars, workshop and Refresher Courses during the year. Departments of Political Science, History and Sociology received grants from the UGC under SAP.

Department of Cultural and Creative Studies

Head : Prof. Desmond L. Kharmawphlang
Telephone : 2723374, 2723371 and 2723372 (O)
Email : desmondkharmawphlang@gmail.com

Thrust Areas

Folkloristics, Performing Arts and Visual Arts.

Brief Statement of Academic Activities

The department runs a regular M.A. course in

Folkloristics and conducts P.G. Diploma courses in Music and Painting. The department started the PhD programme in 2003.

Faculty Profile

Professors : Desmond L. Kharmawphlang, M.A., Ph. D. (NEHU)
P. Jhingan, BSc Engg. (Elect), M.A. & Ph.D. (JNU)
Associate Professor : L. Syiem, M.A., Ph.D. Music (NEHU)
Assistant Professor : B. Kalita, M.F.A. (M.S. Univ. Baroda)

Student Intake

Enrolment capacity : PG Diploma Music - 20
PG Diploma Painting - 10

School of Social Sciences

| | | |
|--------------------|---|---------------------------|
| M.A. Folkloristics | - | 30 |
| Ph. D. | - | Varies from year to year. |

| Actual Admission | SC | ST | Gen | Male | Female | From Meghalaya | Outside Meghalaya | Total |
|--------------------|----|----|-----|------|--------|-------------------|----------------------|-------|
| M.A. Folkloristics | - | 28 | 2 | 10 | 20 | 25 | 5 | 30 |
| PG Diploma: Music | - | 17 | - | 10 | 7 | 16 | 1 | 17 |
| Painting | - | 8 | 2 | 5 | 5 | 8 | 2 | 10 |
| Ph.D. | - | 3 | - | 2 | 1 | 1 | 2 | 3 |

Degree Awarded

| | SC | ST | Gen | Male | Female | Total |
|--------------------|----|----|-----|------|--------|-------|
| (a) Diploma: Music | - | 8 | - | 6 | 2 | 8 |
| Painting | - | 10 | 1 | 7 | 4 | 11 |
| Folklore | - | 18 | 2 | 5 | 15 | 20 |

Courses Conducted

M.A. in Folkloristics, P.G. Diploma in Painting, P.G. Diploma in Music.

Study Tour/Field Trips

The students of Folkloristics were taken to Sung Valley, Jaintia Hills on 30th and 31st October 2010 under the supervision of Professor D.L. Kharmawphlang to study and document rice cultivation in the area. On 22nd November 2010, the P.G. Diploma students of Music & Painting and M.A students of Folkloristics were taken on a field trip to Nongkrem, Smit, under Professor P. Jhingan, to study the Nongkrem Dance Festival. On 19th March 2011, the P.G. Diploma students of Music were taken to Laitkyrhong village, Smit to study the crafting of various traditional musical instruments available in the area. Dr. (Mrs) Lapyngshai Syiem was the teacher in-charge.

Seminars/Conferences/Symposia/Extension Programmes

Organised

In collaboration with the National School of Drama, New Delhi, the department conducted a month-long Theatre Workshop and play

production from 22nd September to 22nd October 2010. Professor P. Jhingan was the Workshop Coordinator and Mr. Amitesh Grover, expert from NSD was the Workshop Director. The department also conducted a UGC-sponsored Refresher Course on Folkloristics and Semiotics from 26th June to 16th July 2010. Professor Desmond L. Kharmawphlang and Professor Prabodh Jhingan were the Course Coordinators. In collaboration with Srimanta Sankaradeva Kalakshetra, Guwahati, the Department organized the 'IGNCA Indigenous Theatre Festival and Workshop' at NEHU, Shillong on 19th March 2011.

Desmond L. Kharmawphlang organized the Four-Day Interim Conference of the International Society for Folk Narrative Research, on Telling Identities: Individuals and Communities in Folk Narratives in NEHU, Shillong from 22nd to 25th February 2011.

Attended

Prof. Desmond L. Kharmawphlang presented a paper entitled "Another Marina Legend" at the national seminar on Philosophy of Literature: Language, Meaning, Ideology, organized by the Department of English, NEHU, Shillong, on 1st

March 2010. He also presented a paper on “Tagore and Khasi Literature” at a seminar organized by the East Zone Cultural Centre, Kolkata, on 2nd September 2010.

Prof. P. Jhingan presented a paper on “*Phawar* as a performing art after an Archery Competition of the Khasis” at the Indian Folklore Congress, Kohima, Nagaland on 9-11 December 2010. With Ms Purabi Baruah he presented a paper on “Performance narrative of *Deodhani*: A ritual performance of Assam, N-E India” at the Interim Conference of the International Society for Folk Narrative Research, Shillong on February 22-25, 2011. With Ms R.K. Pamri he presented a paper on “Motif in Dress as an Identity Marker of the Tangkhul Nagas” at the Interim Conference of the International Society for Folk Narrative Research, Shillong on February 22-25, 2011.

Dr. Lapynshai Syiem presented a paper entitled “Identities: A Reflection in Songs” at the Interim Conference of the International Society for Folk Narrative Research, organized by the Department of Cultural & Creative Studies, NEHU, Shillong from 22nd to 25th February 2011.

Publications

Published in India

Syiem, Lapynshai “Khasi Music: From the Folk to the Traditional”. *Indian Folklife*, Sl. No. 36, October 2010, 5-7.

Funds Received

1. Indira Gandhi National Centre for the Arts, New Delhi: Rs. 4,00,000.00.
2. Indian Council for Cultural Relations, New Delhi: Rs. 2,50,000.00.
3. Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata: Rs. 2,35,000.00.
4. Indian Council of Social Science Research,

New Delhi: Rs. 1,50,000.00.

5. Indian Council of Social Science Research, NER, Shillong: Rs. 75,000.00.

6. North Eastern Hill University, Shillong: Rs. 50,000.00.

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 Studios. Music practical class-room along with musical instruments, Painting practical class-room along with Easels, Painting tables.

Research Projects

Ongoing

Desmond L. Kharmawphlang, Principal Investigator, UPE project entitled “Rice Myth of North East India”, P. Jhingan and L. Syiem: Investigators.

Other Academic Activities

D.L. Kharmawphlang delivered Keynote Address on Cultural Conservation at a seminar organized by Union Christian College, Shillong on 22 July 2010. He inaugurated the national seminar on Challenges to Higher Education in Empowering Rural Women of North-East organized by J.D.S.G. College, Bokakhat, on 15th September 2010, and inaugurated a seminar on Potential of North East Tourism organized by Jorhat College, Assam on 7th January 2011.

P. Jhingan organized “Bhari Gan”, a short play, in collaboration with Sangeet Natak Akademi, NE Centre, Shillong, Academic Staff College and Faculty Club, NEHU on 30th June 2010. He prepared the P.G. Diploma Course in Theatre for the department.

Department of History

Name of the Head : Prof. Manorama Sharma.
Telephone : 2723019 (O); 2551484 (R); 9612171051 (Mobile)
Email : manorama50in@gmail.com, hodhist@gmail.com

Thrust Areas

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 scientific studies of their own and 'other' societies and cultures.

Brief Statement of Academic Activities

During the period under report the faculty members of the department were 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 teaching within the region. Besides, as part of the UGC-SAP-DSA programme Prof. Himanshu Prabha Ray, Professor of History at the Centre for Historical Studies, Jawaharlal Nehru University, New Delhi, visited the Department from 26th April 2010 to 4th May 2010 and interacted with the faculty and students. The department organised a national seminar on "Towards An Intellectual History of Northeast India: Pre- To Post-Colonial Periods" and a Refresher Course for college teachers on the theme "Recent Trends in the Writing of Social, Political and Economic Histories with special reference to Northeast India." The renowned historian Prof. K.N. Pannikar delivered the keynote address and interacted with the participants.

Faculty Profile

Professors : D.R. Syiemlieh, M.A/M.Phil/Ph.D. (NEHU) (On Lien as Pro Vice-Chancellor of NEHU)
M. Momin, M.A/M.Phil/Ph.D. (JNU)
M. Sharma, M.A (Gau U)/Ph.D. (NEHU)
F.A. Qadri, M.A/M.Phil/Ph.D. (Alig. U)

Associate Professors : C.A. Mawlong, M.A (NEHU)/PG Dip. in Arch. (IoA, 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)
A. Passah, M.A./M.Phil/Ph.D. (NEHU)
A. Mathur, M.A./Ph.D.(Rohilkhand U)

NEHU Annual Report 2010-2011

Assistant Professors : M.S.N. Rahman, M.A/Ph.D. (Calcutta U)

Student Intake

Enrolment Capacity: MA: 50, MPhil: 10, PhD: Variable

Actual Admission

| | SC | ST | Gen | Male | Female | Total |
|--------|----|----|-----|------|--------|-------|
| M.A. | 0 | 48 | 02 | 21 | 29 | 50 |
| M.Phil | 0 | 02 | 01 | 01 | 02 | 03 |
| Ph.D | 0 | 03 | 02 | 03 | 02 | 05 |

Degrees Awarded

| | SC | ST | Gen | Male | Female | Total |
|------|----|----|-----|------|--------|-------|
| M.A. | 0 | 37 | 2 | 10 | 29 | 39 |

Ph.D

| Name of the Candidate | Title of Research | Supervisor |
|--------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------|
| Ms. Jayati Bhattacharjee | “Pundravardhana: A Study in Historical Geography and Social Formations”. | Prof. M. Momin |
| Ms. Sarah S. Hussain | “Resistance, Pacification and Consolidation of British Rule in the Tribal and Frontier Areas of Burma (1885 – 1935)” | Prof. D.R. Syiemlieh |

Courses Conducted

M.A

Semester I: Historical Methods-I; Prehistoric to Ancient Societies; Modern Indian Society; Economy and Society in Ancient India; British Expansion and Imperial Policy in India; Technology in the Making of Early China; Social Movement in USA. Semester II: Historical Methods-II; Feudalism; Ancient Indian Polity and Society; Colonialism, Imperialism and Economic Change in India; History of the Graeco-Roman Civilization; Colonialism in South East Asia; (Open Course): Society, Technology and History: Prehistoric Age to Industrial Revolution. Semester III: Capitalism and Imperialism - I; Religion and Society in Ancient India; Indian Nationalism; Political Ideas and Institutions during the Sultanate Period; History of Ideas in Modern India; (Open Courses) Social

Forces and Social Mobilization; Introduction to Gender History. Semester IV: Capitalism and Imperialism – II; Social and State Formations; Archaeology: Methods and Approaches; Colonialism, Communalism and Secularism; Political History of the Mughal Empire; Contemporary India; Socio-Economic History of N.E.I. – The Early Period; Christianity in North East India.

M.Phil/PhD

Research Methodology, History and Theory, Oral Tradition.

Study Tours/Field Trips of Students

Dr. C.A.Mawlong took the students on a field trip to a Neolithic site at Nartiang village in June 2010, as part of the requirement of the course on Archaeology: Methods and Approaches.

Seminars/Conferences/Workshops/Extension Programmes

Organised

The department organized a national seminar under the SAP-DSA programme on “Towards An Intellectual history of Northeast India: Pre To Post Colonial Periods”, on 24-25 November 2010. Coordinator: Dr. Cecile A. Mawlong. The department also organized a Refresher Course on “Recent Trends in the Writing of Social, Political and Economic Histories with special reference to Northeast India.” Coordinator: Dr. A.K. Thakur.

Attended

Prof. Mignonette Momin participated in the national seminar on “Towards an Intellectual History of Northeast India — Pre- to Post-Colonial Period”, organized by the Department of History, North-Eastern Hill University, Shillong, under the Department’s UGC-SAP-DSA programme, on 24th – 25th November, 2010. Presented a paper titled “Garó Customary Practices and the Colonial State”. Participated in the Annual Conference (31st Session) of the North East India History Association held at Tura, Don Bosco College, on 14th – 16th February 2011. Presented a paper, “On Matters of Tradition among the A.chik” and chaired an academic session.

Prof. Manorama Sharma participated in the national workshop on “Sovereignty and Political Discourse in North East India” organized by the ISCARD Guwahati and ICSSR-NERC, 11th – 12th June, 2011, and presented a paper entitled “Changing Face of Sovereignty through History”. Participated in SAP national seminar on “Social Forces and Ethnic Politics in North East India” organized by the Department of Political Science, NEHU Shillong, 10th -12th March, 2011 and presented a paper entitled

“Gender Concerns in Ethnicity, Autonomy and Social Justice.” Participated as resource person in a panel discussion on “Woman - Value Concept”, 10th December, 2010 organised by St. Anthony’s College Women’s Cell and delivered a lecture on “Women’s Rights and Human Rights”. Presented a paper entitled “Intellectual History and Gender: Intellectuals, History and Women in Assam” at the national seminar on Towards an Intellectual History of Northeast India- pre to post Colonial periods” organised by the Department of History, NEHU, Shillong, 23-24 November, 2010 and chaired a session. Attended the 31st Annual Conference of the North East India History Association, organised by Don-Bosco College, Tura, 13th -16th February 2011 and presented a paper entitled “Rethinking Gender History in North East India” and also chaired a session.

Prof. F. A. Qadri attended the national seminar on “Towards an Intellectual History of North East India from the Pre to Post-Colonial Periods,” organised by the Department of History, NEHU, Shillong, 24-25, November, 2010 and presented a paper, “Sufism: Popular and Folk Beliefs in Pre-Colonial North East India” and chaired the third academic session of the seminar.

Dr. Cecile A. Mawlong presented a paper entitled “Jeebon Roy and the Seng Khasi: Khasi Revivalism in the Late 19th and Early 20th Centuries” at the National Seminar on, “Towards an Intellectual History of North East India from the Pre to Post-Colonial Periods,” organised by the Department of History, NEHU, Shillong, 24-25, November 2010.

Dr. T. Gurung Nag attended the National seminar “Towards an Intellectual history of Northeast India: Pre to Post colonial Period” sponsored by UGC-ICHR under the SAP-DSA programme, Dept. of History, NEHU Shillong held on 24-25th November 2010. Paper presented “Zenana

Mission of the American Baptists in the 19th century: A Preliminary Note.”

Dr. A.K. Thakur attended the 31st Annual Conference of the North East India History Association, 14-16 February, 2011, organized by Don Bosco College, Tura, Meghalaya and presented a paper, “Ecology and Technology of Societies of Arunachal Pradesh”. Attended the UGC National Seminar on “Issues of Development and Change in Tribal Areas of North East India”, 28-30 September 2010, organised by Government College, Bomdila, Arunachal Pradesh and presented a paper, “Creating Capital or Inviting Crises: Debating Some New Developmental Initiatives in Northeast India” and chaired an academic session. Attended the ICHR, ICSSR-NERC and UGC sponsored national seminar on “Identities in Northeast India with special reference to Tripura”, organised by Government Degree College, Sonamura, Tripura, 17-18 July, 2010, and presented a paper, “The Chakmas and the Hajongs in Northeast India”. Also chaired one academic session. Attended the Government of Arunachal Pradesh sponsored seminar on Border Trades of Arunachal Pradesh: Prospect and Retrospect, organised by Directorate of Research, Itanagar, 22nd of February, 2011. Attended the Rashtrabhasha Parishad, Govt. of India sponsored two-day workshop & seminar on “Hindi ka Sanskritik Mahatva”, organized by Dept. of Hindi, NEHU, Shillong, 24-25 March, 2011 and presented a paper, “Hindi Bhasha ki Samanvayatmak Bhumika”.

Dr. S. N. Lamare presented a paper on “Intellectual influences in Pre-Colonial and Colonial Jaintia Society” at the national seminar on “Towards an Intellectual History of North-East India Pre to Post Colonial Periods” on 24th – 25th November 2010, organised by the Department of History, NEHU, Shillong under

UGC-SAP-DSA programme. Attended the North East India History Association thirty-first conference at Tura from 14 to 16 February 2011 and presented a paper, “Some Thoughts on Oral History with special reference to the Jaintias of Meghalaya”. Attended a seminar in Jamia Milia Islamia, New Delhi on Little-known Fighters against the Raj: Figures from the Garo, Jaintia and Khasi Hills and presented a paper, “The Little War – The Jaintias and the British” on 6 March 2011. Attended the national seminar (SAP-DRS III) organised by the Department of Sociology, North-Eastern Hill University, on Development and Ecology: Issues and Perspectives on 21-22 March, 2011 and presented a paper, “Environment: The Jaintia Consciousness”.

Dr. A. Passah presented a paper entitled ‘Khasi-Jaintia Women: Evolution and Impact of Ideas’ at the national seminar on ‘Towards an Intellectual History of North East India: Pre to Post Colonial Period’ sponsored by UGC-SAP-DSA and ICHR, Department of History, NEHU, Shillong. 24th and 25th November 2010. Presented a paper entitled “No Labour, No Battle: A Re-look at the Khasi-Jaintia and Garo Labour Corps of World War 1”, at the 31st Session, North East India History Association, Don Bosco College, Tura, 14th-16th February 2011.

Dr. Aparna Mathur attended the national seminar on Mind and Soul of India, 26-27 April, 2010, at the Department of Ancient History and Culture, M.J.P. Rohilkhand University, Bareilly, U.P., and presented paper titled “*Dharma, Artha* and Politics in Ancient India.”

Dr. M.S.N. Rahman presented a paper entitled “Indo- Bangla People to People Relations” at the international seminar on “From Land-Locked to Land-Linked: North East India in BIMSTEC”, 9th-10th April, 2010, Shillong, Meghalaya, I organised by NEHU and Jadavpur Association

of International Relations. Presented a paper entitled "Literary Activities in Medieval Barak-Surma Valley" at the UGC-SAP-DSA sponsored national seminar on Towards an Intellectual History of North-East India: Pre to Post Colonial Period organised by Department of History, NEHU, Shillong, held on 24-25 November 2010. Presented a paper entitled "Sayyid Sultan's World View as Reflected in his Writings with special reference to *Navi Vamsa*" at the ICPR sponsored national seminar on World View of the Tribals. in North-East India, organised by Department of Philosophy, NEHU, Shillong held on 29-30 November, 2010.

Presented a paper on "The Identity Crisis of the Dimasas: A Historical Retrospect", at the national seminar on Ethnicity, Regionalism, Polity and Economy of Eastern India, organised by Victoria College, Cooch Behar, West Bengal, held on 20-21 December, 2011. Presented a paper, "Iran in the Eyes of Rabindranath Tagore", at the international seminar on Tagore and Indo-Iran Relations, organised by Iran Society in collaboration with Tagore Centre for Cultural Studies, Calcutta University, held on 26th and 27th March 2011. Presided over a session.

Publication

Published in India

Passah, A. (2010), "The Khasi-Jaintia Women as reflected in the Vernacular Language and Literature" in *Proceedings of North East History Association*, 30th Session, Shillong, pp.186-193.

Rahman, M.S.N.(2010) "Theory of Kingship under Delhi Sultanate (A.D. 1206-1526): A Critical Study" in Ranjan Kumar Ray (ed.) *Administration, Politics and Society in Medieval India (1206-1707 A.D.)* Maulana Azad College, Kolkata, pp.108-20.

_____ (2010) "Growth and Development of Bengali Language and Literature in Medieval

Barak-Surma Valley" in *Proceedings of North East India History Association*, 30th Session, Shillong, pp.161-171.

Thakur, A. K. (2010), "Colonial Penetration versus Indigenous Reaction: Slavery Abolition in Northeast India" in *Northeast Researches*, Vol. I, March, 2010, pp.82-91.

_____ (2010), "Salt: Sources and Struggle in Arunachal Pradesh", *Proceedings of North East India History Association*, 30th Session, Shillong, pp. 124-36.

_____ (2010), Book review of Er. Lam Peng and Lin Tai Wei (eds.), *The Rise of China and India: A New Asian Drama*, World Scientific Publishing, Peking, 2009, in *Think India Quarterly*, Vol.13, No. 2, April-June 2010, pp.259-262 (ISSN 0971-1260).

Funds Received

UGC-SAP-DSA- Rs. 6,10,000 (Rupees six lakhs, ten thousand only).

ICHR, New Delhi- Rs.1.17 (lakhs) (Rupees one lakh seventeen thousand only).

Research Projects

Completed

"Technology of the Tribes of North East India with special Reference to Arunachal Pradesh." Indian National Science Academy, New Delhi. PI: Dr. A.K.Thakur.

Ongoing

UPE Project on "History, Culture and Society: North East India at the Cross-roads of Change." Principal Investigator: Prof. F.A.Qadri.

Projects under SAP/DSA: SAP Coordinator: Prof. Mignonette Momin

Theme: "Religion and Society and Intellectual History"

1. Prof. D.R. Syiemlieh: "Response and Revival: Christianity among the Hill Tribes

of North East India.”

2. Prof. Mignonette Momin: “Comparisons and Contrasts in Rituals and Symbols: Cultural Patterns in Pre-British Northeast India.”
3. Prof. F.A.Qadri: “Sufi Legends and Islam in North East India.”
4. Dr. Ceciie Mawlong: “Megaliths, Rituals and the Making of a Social Landscape.”
5. Dr. V.R.Rengsi: “Christianity and Mizo Society.”
6. Dr. A.K.Thakur: “Religion and Society in Arunachal Pradesh from Pre-Modern to Contemporary Times”.
7. Dr. S.N.Lamare: “Totems, Taboos and Rituals in the Khasi and Jaintia Society.”
8. Dr. M.S.N. Rahman: “Religion and Society in Barak-Surma Valley (16th-18th Centuries).”

Theme: “Gender and Intellectual History”

1. Prof. Manorama Sharma: “Between Myth and Reality: Gender Relations in Assam in the Nineteenth and Twentieth Centuries.”
2. Dr. T.G. Nag: “The American Baptist Women Missionaries in Northeast India: A Study of their Role in Education and Health of Indigenous Women.”
3. Dr. Amena Passah: “Khasi-Jaintia Woman: Some Insights on Past and Present Roles and Status.”

Dr. A.K. Thakur is a Resource Person for the Project on “Study on Functioning, Structure of Local Governance in North Eastern Region with Special Reference to Autonomous Regional Councils” for the Commission on Centre State Relations, Government of India.

Honours/Awards/Recognition

Dr. Cecile Mawlong has been appointed State Project Coordinator (Meghalaya) for National Mission for Monuments and Antiquities (NMMA), Archaeological Survey of India, New Delhi.

Other Academic Activities

Prof. F. A. Qadri chaired the second academic session of the national seminar on “Ethnicity, Ethno-Nationality and Culture: Explorations into Identity Formation in North East India” organised by ICHR-NERC, Guwahati, on 11th-12th March, 2011.

Dr. Cecile A. Mawlong coordinated the national seminar on “Towards An Intellectual history of Northeast India: Pre To Post Colonial Periods”, organised by the Dept. of History NEHU, Shillong, on 24-25 November 2010, as part of its UGC SAP-DSA Programme. The seminar was sponsored by the UGC SAP-DSA and ICHR, New Delhi.

Prof. Manorama Sharma participated as resource person in the “Research Methodology in Social Sciences” organized by J.B. College, Jorhat, 29th April -1st May 2010 and delivered two lectures on “Gender Research in the Social Sciences.” Chaired a session of the international conference of the ISFNR, organised by the Department of Creative and Cultural Studies, NEHU on 23rd February 2011.

Dr. A.K. Thakur coordinated a Refresher Course on the theme “Recent Trends in the Writing of Social, Political and Economic Histories with special reference to Northeast India” during November-December 2010.

Dr. S.N. Lamare was a resource person for a two day workshop on “Deepening Democracy for a Responsive Society” held at Synod College, Shillong on 3rd & 4th September 2010. Was a resource person for a District Level Seminar cum Workshop, organised by Kiang Nangbah Government College, Jowai and jointly sponsored by ICSSR-NERC, Shillong and KNGC, Jowai on the theme “Problems And Possibilities of Higher Learning in Jaintia Hills: The Historical Perspective” 28th September 2010.

Department of Law

Name of Head : Dr. Chintamani Rout
Telephone : 0364-2723801 (O)
E-mail : chintamanirout@rediffmail.com

Thrust Areas

The Department of Law is at present focused on making its Five-Year Integrated B.A. LL.B (Hons.) Programme suitable and beneficial for the students of the region.

Brief Statement of Academic Activities

Besides the normal teaching activities of the department, it organized various competitions like debate, quiz and moot courts among the students during the year under report.

Faculty Profile

Associate Professors : Dr. J.J. Mozika, Ph.D (University of North Bengal).
 Dr. C. Rout, M.A., LL.M, Ph.D (Utkal University)
Assistant Professors : Mr. R.K. Mishra, LL.M (BHU), P.G.Diploma in Criminology (Lucknow)
 Dr. A.K. Singh, LL.M (B.H.U.), Ph.D
 Dr. Naveen Kumar, LL.M (Jamia Milia Islamia), Ph.D
 Dr. Ranjit Sil, LL.M, Ph.D (University of Burdwan).
 Mr. Shishir Tiwari, LL.M (BHU), M.Phil in International Law (JNU),
 Mrs. Preeti Gupta, M.Sc. LL.M. (Indian Law Institute, New Delhi).

Student Intake

| | | | | | | |
|------------------------|----|----|-----|------|--------|-------|
| Enrolment capacity: 60 | | | | | | |
| Actual Admission | SC | ST | Gen | Male | Female | Total |
| B.A., LL.B (Hons.) | 1 | 55 | 4 | 21 | 39 | 60 |

Seminars/Conferences/Symposia/ Workshops/Extension Programmes

Attended

Dr. Chintamani Rout

Presented a paper on “Recent Reforms in the Legal Education Introduced by the BCI – An Analysis” at the two days All India Law Teachers’ Congress on Law Teaching & Research: Recent Developments held on December 18 – 19, 2010 and organized by School of Law, KIIT University, Bhubaneswar.

Dr. A. K. Singh

Presented a paper titled “Vidhik Bhasha Ka Hindikaran” at the workshop on *Poorvottar*

ki Bhashaon men takniki shabd: Anuprayog aur sanasyayen on 26 March 2010, organized by the Science and Technology Glossary Commission, Human Resources Development Ministry, New Delhi, on 25-26 March 2010 in Department of Hindi, NEHU, Shillong. Presented a paper titled “*idhik Shiksha men Ahunik Praudyoki ki Bhoomika*” at the workshop on *Rajbhasha ke Prayog men Adhunik Praudyoki ki Bhoomika* conducted by the Hindi Cell, NEHU, Shillong, on 13th April 2010. Presented a paper on “Right to Health and Enforcement: National and International Perspective” at the two day national seminar on Human Rights Equity and Health: Role of the State and the

Citizens organized by North Bengal University, Darjeeling, West Bengal on March 27-28, 2010. Presented a paper on “Unorganized labor and Socio Economic Justice” at the two day national seminar on Social Justice organized by North Bengal University, Darjeeling, West Bengal on November 27th and 28th 2010. Presented a paper titled “A critique of Criminal Justice System in India with special reference to Standard of Proof” at the two day national seminar on Criminal Justice Delivery System in India organized by the Indian Institute of Legal Study, Siliguri, West Bengal on 12 and 13th March 2011.

Dr. Naveen Kumar

Participated in the national seminar on Right to Education Act: Its Prospects and Challenges held on March 7-9, 2011 at Northeast Regional Institute of Education, Shillong and presented a paper titled “Providing or Denying Education: a case of the children belonging to different Socio-Economic Background”. Presented a paper titled “Environment Issues and Development in North East India: A Legal Perspective” at the national seminar on Issue of Development and change in Tribal Areas of North East India organized by Government College, Bomdila in collaboration with the Buddhist Culture Preservation Society, Bomdila on 28-30 September 2010.

Dr. Ranjit Sil

Presented a paper titled “Rapid Urbanization and Change of Land use Pattern: New Challenges and Law” at the conference on Mega-Urbanization and Human rights, emerging challenges and Opportunities on 14-16 February 2011, organized by Department of Anthropology, West Bengal State University. Presented a paper titled “Non-Registration of FIR by police Officials-How fatal for

Administering Criminal justice System” at the national seminar on Criminal Justice Delivery System in India: Retrospect and Prospect held on 12-13th March 2011, organized by Indian Institute of Legal Studies, Siliguri, West Bengal. Presented a paper titled “Revamping the Quality of Urban Built Environment: Needs and Challenges” at the national seminar on Social Justice and Welfare State: Myth and Realities, organized by department of Law, university of North Bengal, held from 27th to 28th November 2011.

Mrs. Preeti Gupta

Presented a paper on Reexamining the status of Indian legal education system with special reference to postgraduate programme in law at the All India Law Teachers Congress (AILTC) held at KIIT Law School, Bhubaneswar on 17th-18th December 2010. She also presented a paper on Role of Green Economy in Pursuit of Sustainable Development at a two-day national seminar on ‘Ecology and Development: Issues and Perspectives’ organized by the Department of Sociology, NEHU on 21st-22nd March, 2011.

Publications

Published in India

Mozika, J. J. “Corporate Environmental Responsibility in India: Need for a Commitment Oriented Approach” in R. Bandopadhyay & R.D. Dubey (ed.), *An Introduction to Environmental Rights*, Central Law Publications, Allahabad, 2010, pp. 173-83.

Sil, Ranjit. “Right against Hunger and Development Discourse in India”, *Indian Human Rights Law Review*, Vol.1, June 2010, 96-110.

Sil, Ranjit. “Urban Development and Indian judiciary: Panorama of a new Environment jurisprudence” in *International Journal of Jurisprudence and Philosophy of Law*, Vol. III, 2009, 9-12.

Sil, Ranjit. "Vulnerable of the existence of Water Bodies in the Rising Crazes of Urbanization: a Legal Probe" in *An Introduction to Environment Rights*, edited by Dr. Rathin Bandopadhyay and Dr. Rajendra Dhar Dubey, published by Central Law Publications, Allahabad, 253-70.

Singh, A. K. 'Gender Inequality and Law: An Analysis in Indian Perspective' in *Gender Justice and Women Empowerment* edited by Sanjay Kumar Singh. Radha Publication, New Delhi, 1st edition 2011, pp.174-204 .

Singh, A. K. 'Restoration of Forest Dwellers rights vis-a-vis Environment: an Analysis in Indian Context' in *An Introduction to Environmental Rights (ed.)* by Rathin Bandopadhyay and Dr Rajendra Dhar Dubey, Central Law Publications, Allahabad, 1st edition, 2010, pp.134-142.

Singh, A. K. 'Prevention of Crime against Women under the Indian Penal Code: A Need of More Humane Provisions' in the book *Human Rights Women Rights* edited by Dr Ratin Bandopadhyay and others, R Cambray and Co. Pvt. Ltd, 1st edition, 2010, pp. 514-523.

Singh, A. K. "Human Rights and Development: An Analysis with Special Concern to the Environment" in *International Journal of Jurisprudence and Philosophy of Law' (IJJPL)* Vol. III, 2009, pp.109-133

Singh, A. K. "Terrorism and Human Rights: An Overview" in *Indian Human Rights Law Review* Vol. I No II December, 2010, pp. 180-87.

Other Academic Activities

Dr. J.J. Mozika delivered a lecture on "The Menace of Ragging" as a resource person in the Legal Awareness Programme organized by the Meghalaya Legal Services Authority held at St. Mary's College on 13th August, 2010. Delivered a lecture on "Public Interest

Litigation" on 8th March 2011, on "Consumer Protection" on 10th March and "Judicial Activism" on 11th March as a resource person in the UGC – ASC 13th Orientation Programme from 16th February – 15th March, 2011 organised by Academic Staff College, NEHU, Shillong.

Dr. Chintamani Rout participated in the Golden Jubilee National Seminar on "One India, one Bar" organized by the Bar Association of India on 3rd April, 2010 at Guwahati Town Club, Guwahati, Assam. Participated in the Golden Jubilee National Conference on "Law and Governance" organised by the Bar Association of India on May 8 – 9, 2010 at New Delhi.

Mr. R.K. Mishra attended the Fifty Sixth Orientation Course from 4 to 31 March 2011 at UGC Academic Staff College, Banaras Hindu University, U.P.

Dr. Naveen Kumar chaired a session on "Historical Development of the Right to Education Act" at the national seminar on Right to Education Act: Its Prospects and Challenges held on March 7-9, 2011 at NERIE, Shillong. Participated in the 93rd Four-Week Orientation Programme organized by UGC-ASC Jamia Millia Islamia, New Delhi from 20th July to 16th August, 2010. Delivered a lecture on brain storming session on "Right to education and what it means for the society in general and for North east in particular" as a resource person on 11th May 2011 in NERIE, Shillong. Spoke on "Aparadhick Nyaya Pranali me Rajbhasha ka prayog tatha Adhunik Pradyogiki" as a resource person at a Hindi workshop on 13th April 2010 organized by NEHU, Shillong. Ph.D Degree was awarded on the topic "Right to Health in India with special reference to Bihar" from T.M. Bhagalpur University, Bihar on 7th April 2010.

Dr. Ranjit Sil was a member in the Editorial Board of the journal *Indian Human Rights Law Review*, Kolkata.

Shishir Tiwari participated in 39th Annual Conference of the Indian Society of International Law, held on 24-25 April 2010 at New Delhi. He successfully completed the course in International Environment Law (online) organized by United Nations for Training and Research (UNITAR) from 13th September to 21st November 2010.

Mrs. Preeti Gupta participated in a Two-Day Short Term Course on Intellectual Property

Rights organized by UGC-Academic Staff College, NEHU, Shillong from 6th to 7th September 2010.

Dr. A. K. Singh delivered Extension Lecture on 'Indian Criminal justice System' at Shivani Gaurav Memorial Law College, Jaunpur (U.P.) on 29th January 2011. Delivered Extension Lecture on 'Procedural Laws' in TD PG College Jaunpur, (U.P.) organised under the T.D. Memorial Lecture Series, on 4th February 2011.

Department of Political Science

Head of the Department : Professor B. J. Deb
Telephone : Office: 2723035 & 2723036
Email : bjdeb1@gmail.com

Thrust Areas

Contemporary Issues in Indian Politics and Politics of North East India.

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 inter-disciplinary 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 102 students on its roll at the M.A. level. The department admits M.Phil & Ph.D scholars every year who undergo course work for one semester followed by dissertation writing on proposals approved by the School Board of Social Sciences. At present there are 54 research scholars who are engaged in M.Phil & Ph.D programmes of the department.

Faculty Profile

Professors:

| Name | Degrees | Institution |
|--------------------|---------------------------|---------------------------------------------------|
| Prof. A.K. Baruah | M.A. & Ph.D | Punjab University |
| Prof. R. Borgohain | M.A., M.Phil & Ph.D | Jawaharlal Nehru University Gauhati University |
| Prof. L.S. Gassah | M.A., M.Phil & Ph.D | NEHU |
| Prof. B.J. Deb | M.A.(Double), LL.B & Ph.D | Gauhati University |

School of Social Sciences

Associate Professors:

| Name | Degrees | Institution |
|---------------------|------------------------------------|---------------------------------------|
| Dr. K. Debbarna | M.A., M.Phil & Ph.D | NEHU |
| Dr. H. Srikanth | M.A., M.Phil & Ph.D | Hyderabad University |
| Dr. P. Malngiang | M.A., M.Phil, Ph.D & LLB, PGDTL | NEHU Institute of Taxation, Kerala |
| Dr. S. Sen Gupta | M.A., M.Phil & Ph.D | NEHU |
| Dr. R. K. Satapathy | M.A., M.Phil & Ph.D. | Sambalpur University NEHU |
| Dr. Munmun Majumdar | M.A., M.Phil & Ph.D. | JNU |
| Dr. T.T. Haokip | M.A. & Ph.D | NEHU |

Assistant Professors

| Name | Degrees | Institution |
|----------------------|------------------------|-----------------------------------------------------|
| Dr. B.K. Mahapatra | M.A. M.Phil & Ph.D. | Delhi University Jawaharlal Nehru University |
| Dr. V. Bijukumar | M.A. M.Phil & Ph.D | University of Kerala Jawaharlal Nehru University |
| Dr. S. Bhattacharjee | M.A., M.Phil & Ph.D | Jawaharlal Nehru University |

Student Intake

Enrolment capacity: M.A. = 52; M.Phil. & Ph.D = Variable

Actual Admission: (MA, M.Phil & Ph.D)

M.A.

| SC | ST | Gen | Male | Female | Total |
|-----|----|-----|------|--------|-------|
| nil | 52 | nil | 19 | 33 | 52 |

M.Phil

| SC | ST | Gen | Male | Female | Total |
|-----|----|-----|------|--------|-------|
| nil | 5 | nil | 1 | 4 | 5 |

PhD

| SC | ST | Gen | OBC | Male | Female | Total |
|----|----|-----|-----|------|--------|-------|
| 1 | 14 | 2 | 2 | 10 | 9 | 19 |

Degrees Awarded

M.A.

| SC | ST | Gen | Male | Female | Total |
|-----|----|-----|------|--------|-------|
| Nil | 36 | 1 | 9 | 28 | 37 |

NEHU Annual Report 2010-2011

M.Phil

| Sl. No. | Name of the Candidate | Topic of Research | Name of Supervisor |
|---------|---------------------------|------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | Charis Mine P. Khonglah | Middle Class and Political Institutions among the Jaintias: A Study of Jaintia Autonomous District Council | Dr. V. Bijukumar |
| 2 | Junmani Basumatary | Working of the Bodoland Territorial Council (2003-2008) | Dr. K. Debbarna |
| 3 | Anita Das | Panchayati Raj in Assam: A Study of Anchalik Panchayats under Jorhat Sadar Subdivision. | Dr. B. K. Mohapatra |
| 4 | Armstrong Swer | Border Hats in Indo-Bangladesh Relations with reference to Khasi Hills | Dr. S. Bhattacharjee |
| 5 | Baniateilang Majaw | Regional Politics in Meghalaya: A Study of the United Democratic Party (UDP) | Dr. S. Sengupta |
| 6 | Iaribhalang Rymbai | Traditional Political Institutions: A Comparative Study of Khasi Syiemship and Mizo Chiefship | Dr. H. Srikanth |
| 7 | Iengskhem Rynghi Synniang | Traditional Institutions in Khasi Hills: A Study of Mawphlang Lyngdohship | Dr. P. Malngiang |
| 8 | Rajiv Kumar Roy | Low Intensity Conflict in Jammu & Kashmir (1989-1999) | Dr. R. K. Satpathy |
| 9 | Rika Deimaya Pariat | Jaintia Hills Autonomous District Council: A Study | Prof. L. S. Gassah |
| 10 | Shivani Phukan | Participation of Women in Panchayati Raj Institutions. A Study of Jorhat Zilla Parishad | Dr. S. Bhattacharjee |

PhD

| Sl. No. | Name of the Candidate | Topic of Research | Name of Supervisor |
|---------|------------------------|----------------------------------------------------------------------------------------------------|--------------------|
| 1 | Sita Nongkhlaw | Politics of Pressure Groups in Meghalaya with special reference to Student and Youth Organisations | Dr. S. Sengupta |
| 2 | Isabelle Marbaniang | Meghalaya Legislative Assembly: The Role of the Opposition (1972-1988) | Prof. L. S. Gassah |
| 3 | Charles Reuben Lyngdoh | Demand for Constitutional Recognition of the Khasi States: Role of the Syiems of Khyrim and Myllem | Prof. L. S. Gassah |
| 4 | Lucas P. Rymbai | Traditional Chang Polity and its Changing Dimensions | Dr. P. Malngiang |

Courses Conducted

MA

Semester I: 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). Semester II: 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. Open Courses: Government and Politics in N. E. India, Democracy in India, Modern Indian Political Ideas. Semester III: 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. Open Courses:

Globalisation, Politics of Social Movements, Women and Political Theory, Development Administration, Issues in Environmental Politics. Semester IV: Compulsory Core Courses: Major Debates in Political Theory, Comparative Politics, Research Methodology (II). Optional Core Courses: Political Ideology, Political Sociology, Foreign Policy of Major Powers, Indian Political Economy, Human Rights.

MPhil/PhD

Compulsory: Research Methodology, Issues and Processes in the Politics of North East India.

Optional: Issues in Indian Politics, Women and Politics in North East India, Critical Perspectives on Knowledge and Power, Advanced Studies in International Politics, Environmental Politics.

**Seminars, Conferences and Workshops/
Extension Programmes**

Organised

Prof. R. Borgohain organised a national seminar on Social Forces and Ethnic Politics in North East India under SAP, Department of Political Science, NEHU, Shillong on 10-12th March 2011.

Dr. H. Srikanth organized a national symposium on behalf of NEHU Teachers' Association (NEHUTA) on Maintenance of Teaching Standards in Higher Education: Issues, Problems and Reforms on March 25-26, 2011.

Dr. Munmun Majumdar organized the Refresher Course in Political Science from 15th November to 6th December 2010.

Attended

Prof. R. Borgohain presented a paper on "Women in Ethnic Politics: A Study of All Bodo Women's Welfare Federation (ABWWF)" at the national seminar on Social Forces and Ethnic Politics in North East India organized by the

Department of Political Science, NEHU held on 10-12th March 2011.

Prof. L. S. Gassah presented a paper on "Political and Commercial Bonds between Jaintia Hills and Sylhet" at the international conference on From Land Locked to Land Linked: North-East India in BIMSTEC, 8-10 April 2010 held in Shillong. Presented a paper on "The Early Resistance in Jaintia Hills" at the seminar on Little Known Fighters against the Raj: Figures from Meghalaya, Jamia Milia Islamia, New Delhi on 7-8 March 2011 under the auspices of Saifuddin Kitchlew Chair and Centre for North East Studies, Academy of Third World Studies. He also presented a paper on "My Research Experience: Crossing the Boundary in Social Science Research" at the Training Course on Research Methodology in Social Sciences, December 13-17, 2010, organised by ICSSR-NERC, Shillong.

Dr. H. Srikanth presented a paper on "Nation state, Sovereignty and Self Determination: Implications for North-East India" at the national workshop on Sovereignty and Political Discourse in North-East India, organized by ISCARD, June 11-12, 2010 and held in ICSSR-NERC, Shillong. He also presented a paper titled "Understanding Secessionist Movements in Northeast India" at the Associates' Seminar at IIAS on July 22, 2010. Presented a paper on "Social Forces and Ethnic Politics: In search of Theoretic Framework" at the national seminar on Social Forces and Ethnic Politics in Northeast India organized by the Department of Political Science, NEHU under SAP project on March 10, 2011. Presented a paper on "Universities in North-east India: Instruments of National Hegemony" at the national seminar on Higher Education in India's Northeast: Issues and Concerns, organized by OKDISC, in collaboration with IIAS, Shimla on March 12,

2011 in Guwahati. Presented a paper on “Reflections on New UGC Regulations” at the national symposium on Maintenance of Teaching Standards in Universities: Issues, Problems and Reforms, organized by NEHUTA on March 25-26, in NEHU, Shillong.

Dr. S. Sen Gupta presented a paper titled “The Question of ‘Sovereignty’: An Enquiry into the Perception of the Elite in Meghalaya” at the national workshop on Sovereignty and Political Discourse in North East India organized by the Institute of Social Change and Regional Development, Guwahati and ICSSR-NERC at ICSSR-NERC Complex, NEHU Campus, Shillong on 11-12 June 2010. She presented a paper on “State Politics in Meghalaya” at the national workshop on State Politics in India organized by the Dept. of Political Science, Shivaji University at the University Campus, Gwalior, on 2-4 September 2010. She presented a paper on “Understanding Federalism: An Exploration of the Dynamics of the Indian and Australian Federations” at the 2nd International Conference organized by Indian Association for the Study of Australia (IASA), Eastern Region in collaboration with Monash University, Australia and University of South Wales, Australia at Calcutta, 22-24 January, 2011. She presented a paper on “Social Forces and Ethnic Politics in Arunachal Pradesh; A Study of the AAPSU” at the SAP National Seminar organized by the Department of Political Science, NEHU, on 10-12 March 2010.

Dr. M. Majumdar presented a paper titled “Engaging Myanmar: Implication for the landlocked Northeast India” at the international conference on From Land Locked to Land Linked: Northeast India in BIMSTEC organized by JAIR in collaboration with Public Diplomacy Division, Ministry of External Affairs at NEHU, ICSSR-NERC, Shillong on 8-10 April 2010. She

presented a paper titled “Engaging Myanmar through India’s Look East Policy and the consequences for the Seven Sisters of Northeast India” at the Fifth Biennial International Conference organized by Indian Association for Asian Studies at Sikkim University, Sikkim on 10-12 December 2010.

Dr. T. T. Haokip presented a paper titled “The Kukis of India and Myanmar: A Study of their interactions” at the international seminar on From Land Locked to Land Linked: North East India in BIMSTEC organized by Jadavpur University of International Relations, NEHU and ICSSR-NERC at NEHU on 8-10 April 2010. Presented a paper on “Reformation of Kuki village Administration and Land holding system” at the regional seminar at Imphal organized by the Kuki Inpi, Manipur and Kuki Christian Fellowship International (KCFI) on 1-3 September 2010.

Dr. B. Mohapatra presented a paper titled “Afghanistan and the International Community: Confronting the Challenges of Security and Development” at the international conference on Rethinking and Intervention In Afghanistan organized by Indian Council of World Affairs, New Delhi, 6-7 January 2011. Presented a paper on “Globalisation, Gandhian Ethic an Inclusive Growth: Challenges before India” at the XXXIII National Conference of ISGS on Market Economy and Gandhian Ethics held on 29-31 October 2010 at Convention Centre, IGNOU, New Delhi.

Dr. V. Bijukumar presented a paper titled “Liberal State and Multiculturalism: The Politics of Recognising Difference” at the international workshop on Reinterpreting the State organized by the Centre for Comparative European Union Studies, IIT Madras on 28-3 July 2010. He presented a paper on “Politics of Contested Modernity: Gandhi, Nehru and Ambedkar at the

workshop on Research Writing and Publication organized by UGC-Academic Staff College, University of Hyderabad on 12-17 July 2010.

Dr. Suparna Bhattacharjee presented a paper titled "Beyond Borders: 'Closed Hats' Revival in the open era" at the international conference on Land Locked to Land Linked: North-East India in BIMSTEC, organized by CII and Jadavpur Association of International Relations dated April 8-9, 2010 at ICSSR Seminar Hall, Shillong. She also presented a paper on "Westphalia revisited" at the national workshop on Sovereignty and Political Discourse in Northeast India organized by Inst of Social Change and Regional Development, Guwahati and ICSSR-NERC at ICSSR Seminar Hall, June 11-12, 2010.

Publications

Published in India

Baruah, Apurba, K. "Politics of Human Development", in P. Nayak (ed), *Growth and Human Development in North-East India*, OUP, New Delhi, 2010, pp.129-38.

Baruah, Apurba, K. "Retreat of the State and GONGOIZATION in the Globalized world", in M.N Das and Manjula Dowerah Bhuyan (eds) *Globalisation and The State*, DVS, Guwahati, 2010 pp. 23-34.

Bijukumar, V., "Contextualising Nehruvian Development: Democratic Compulsion and Political Reality" in G. Gopakumar (ed.), *Nehru and Modern India: An Anatomy of Nation-Building*, New Delhi: New Century Publications, 2010, pp.164-177.

Deb, B. J., (ed.) 2010, *Population and Development in North East India*, Concept Publications, New Delhi.

Deb, B. J., (eds.), 2011, *Freedom Struggle in North East India*, Omsons Publications, New Delhi.

Debbarma, Khakchang, 2010, "Civil Liberty: A Victim of Actions by the State and Non-state Armed Groups in Northeast India", in Wasbir Hussain (ed.), *Peace Tools & Conflict Nuances in India's Northeast*, Wordweaves India: Guwahati, 2010.

Haokip, T. T., "Searching for a common nomenclature: A Study of the Chin-Kuki-Mizo People of Indo-Myanmar Border", in Th.R.Tiba (ed.), *Scheduled Tribes of North-East India and Development*, B.R. Publishing Corporation, Delhi, 2010, pp.224-48.

Haokip, T. T., "Ethnic and Religious Diversity: The Unresolved Core issue of Myanmar", *Man and Society: A Journal of North-East Studies*, Vol.VII, Summer 2010, published by the Indian Council of Social Science Research North Eastern Regional Centre, Shillong, pp.104-124.

Haokip, T. T., "Kuki Armed Opposition Movement", *Eastern Quarterly*, Vol.6 (Issues 1&11): Spring & Monsoon 2010, pp.16-27.

Sen Gupta, Susmita, 2010. Socio-Political Assertion of the Bodos, Sonowal, C.J. (ed.), *Quest for Autonomy and Development – the Contemporary Trends of Ethnic and Tribal Assertion in Assam*, Vol.2, New Delhi: Akansha Publishing House, pp.308-22.

Srikanth, H, "Understanding Governance in the context of North-East India", *Northeast Researches*, Vol.1, No.1, 2010, 92-106.

Published Abroad

Majumdar, M, "Conflict Management of the Spratlys in the South China Sea: the ASEAN Way" *The Indonesian Quarterly*, First Quarter, Vol. 38 (No.1), 2010, pp.119-37.

Srikanth, H, 2010, *Indigenous Peoples in Liberal Democratic States: Conflict and Reconciliation in Canada and India*, Boulder: Baau Institute.

Funds Received

Received the following funding for the national seminar on “Social Forces and Ethnic Politics in North East India” held on 10-12 March 2011. Co-ordinator of the seminar: Prof. R. Borgohain.

| Sources | Fund Sanctioned | Fund Received |
|-------------------|-----------------|----------------|
| ICSSR-NERC | Rs.50,000/- | Rs.45,000/- |
| NEHU | Rs.50,000/- | Rs.50,000/- |
| ICSSR (New Delhi) | Rs.75,000/- | Rs.67,500/- |
| SAPUGC | Rs.1,00,000/- | Rs. 1,00,000/- |

Research Projects

Ongoing

Traditional Institutions and Democratic Governance: A Study of Northeast India, Amount - Rs.7,85,200, Source-UGC Major Project. PI: Dr. T. T. Haokip.

Honours/Awards/Recognition

Dr. H. Srikanth completed second spell of Associateship at the Indian Institute of Advanced Studies, Shimla in July 2010.

Other Academic Activities

Baruah, Apurba, K. delivered a lecture on “Importance of Theory in Social Science Research” at the NERC Social Scientists’ Meet, Session -I on 8th March 2010, Shillong. Delivered a lecture on “Relevance of Social Science Research” at a workshop organized by the Gauhati University Research Scholars’ Association at Gauhati University on 11th March 2010.

Borgohain, R. delivered a lecture on “Research

Design” at the Regional Workshop on Research Methodology in Social Sciences, organized by ICSSR-NERC, Shillong on 13-17th December 2010. Served as a commentator at the Young Social Scientist Meet, organized by ICSSR-NERC, Shillong, on 14-16 March 2011.

Deb, B. J. delivered the Presidential Speech on “Potentials and Constraints of Look East Policy” at the national seminar on Look East Policy and North East India on 8-9 March 2010, organised by North East India Council for Social Research, Shillong.

Srikanth, H. was a member of the Syllabus Drafting Committee of Jharkhand University, which devised a five-year integrated course on Indigenous Cultural Studies. He participated as resource person in the Second ICSSR-NERC Social Scientists’ Meet, organized on March 14-16, 2011.

Mohapatra, Biswajit was a Resource Person & Discussant at the international seminar on Eurasia Twenty Year After: 1991 in Retrospect, held in Calcutta, 11th -12th February 2011.

Bhattacharjee, Suparna delivered a series of lectures on Indian Foreign Policy and Indo-US Relations in the Dept. of Distance Education and Learning on Jan 4-11, 2011 in Tripura University, Agartala. She delivered a public lecture on the topic entitled, “Human Security: The Missing Dimension” at Tripura University, Agartala on 12 January 2011.

Department of Sociology

Name of the Head : Prof. C.L. Imchen
Telephone : 0364-2723040
E-mail : hodsoc@nehu.ac.in

Thrust Area

Social Change

Brief Statement of Academic Activities: Besides teaching and supervising research the faculty members were engaged in individual research activities as well. The faculty members were

actively involved 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, to name a few.

Faculty Profile

Professors : Nikhlesh Kumar, M.A. (Delhi), Ph. D. (NEHU)
 C.L. Imchen, M.A., M.Phil., Ph. D. (JNU)
Associate Professors : 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)
 B. Panda. M.A., M. Phil. (Hyd.), Ph. D. (IIT/ Kanpur)
Assistant Professors : Rekha M. Shangpliang, M.A., M. Phil., Ph.D. (NEHU)

Student Intake

| | | | | | |
|---------------------|---------|-----------------|-----|------|--------|
| Enrolment capacity: | MA : 50 | Ph.D : Variable | | | |
| Actual Admission | SC | ST | Gen | Male | Female |
| MA | Nil | 50 | Nil | 10 | 40 |
| M. Phil | Nil | 04 | Nil | Nil | 04 |
| Ph. D | Nil | 07 | Nil | 01 | 06 |

Courses Conducted

M.A

Semester I: Sociological Theories – I, Methodology of Social Research – I, Sociology of Family and Kinship, Indian Society – I, Indian Society – II. Semester II: Sociological Theories – II, Methodology of Social Research – II, Sociology of Religion, Indian Society – III. Semester III: Economy and Society, Political Sociology, Sociology of Development, Tribal Movements in India. Semester IV: Social Change, Sociology of Environment, Anthropological Theories, Industrial Sociology.

M.Phil/PhD

Designing Sociological Research, Sociological Concepts, Advanced Sociological Theory.

Study Tours/ Field Trips of Students

Dr. A.K. Nongkynrih led the M.A. students for field trip to the Sacred Grove of Hima Lyngiong on 19th March 2011.

Seminars/Conferences/Workshops/Extension Programmes

Organised

National Seminar on Development and Ecology: Issues and Perspectives on 21st and 22nd March

2011. Convener: Dr. B. Panda.

Workshop on Teaching of Sociology at the Undergraduate Level, 25th March 2011. Coordinator: Dr. I.L. Aier.

Attended

Prof. Nikhlesh Kumar presented a paper titled "Understanding Development" on 21st March 2011 at the national seminar on Development and Ecology: Issues and Perspectives organised by the Department of Sociology, NEHU on 21-22 March 2011 under the DSAP-DRS (Phase III) of the UGC.

Prof. C.L. Imchen presented a paper on "Christianity and the Nature of Intellectual Engagement: The Paradox of Identity Formation" at the national seminar on Towards an Intellectual History of North-East India: Pre to Post Colonial Periods organised by the Department of History, NEHU from 24th to 25th November 2010.

Dr. I.L. Aier presented a paper titled "Village community, Ecology, Timber Industry and Socio-Economic Consequences in Nagaland State" at the national seminar on Development and Ecology: Issues and Perspectives organised by the Department of Sociology under SAP-DRS Phase III, on 21-22 March 2011.

Dr. A.K. Nongkynrih presented a paper on "Waste, Waste Management and Environment: A Sociological Assessment" at the national seminar on Development and Ecology: Issues and Perspectives, organised by Department of Sociology, NEHU, March 21-22, 2011. Presented a paper on "Universities and Environment: North-Eastern Hill University as the Context" at the national seminar on Maintenance of Teaching Standards in Higher Education, organised by NEHU Teachers' Association, March 25-26, 2011.

Dr. B. Panda presented a paper titled

"Voluntarism, Voluntary Organisations and Development" at XXXVI All India Sociological Conference -2010 held at Ravenshaw University at Cuttack in Orissa during 27-29 December 2010.

Dr. Rekha M. Shangpliang presented a paper entitled "The Changing Perspective of Land and Forest in Khasi Hills" at the national seminar organized by the Department of Sociology, NEHU, Shillong on Development and Ecology: Issues and Perspectives held on 21st and 22nd of March 2011.

Publications

Published in India

Kumar, D. V. "Gellnerian Theory of Nation and Nationalism: A Critical Appraisal". *Sociological Bulletin*, September-December, 2010, Volume 59, Number 3, Pp. 392-406

Kumar, D. V. "Issues and Challenges in Tribal Development: A Perspective from the North-East" in Ganesha Somayaji (ed.) *Tribal Communities and the Exclusion – Inclusion Debate in India* (55-67). Delhi: Academic Excellence

Nongkynrih, A. K. "Khasi Kinship Terms and their Usages in Everyday Life", in *Northeast Researches*, II: 1-17, March 2011.

Nongkynrih, A. K. "Scheduled Tribes and the Census: A Sociological Inquiry", in *Economic and Political Weekly*, XLV (19):43-47, May 8-14, 2010.

Shangpliang, Rekha M. 2010. *Forest in the life of the Khasis*. New Delhi: Concept Publishing Company.

Funds Received

| | |
|---------------------------|---------------|
| ICSSR-NERC, Shillong: | Rs. 50,000/- |
| UGC-SAP-DRS III - | Rs.4,00,000/- |
| | Rs.5,00,000/- |
| | Rs. 20,000/- |
| Recurring & Non-Recurring | Rs.9,20,000/- |

Research Projects

Completed

Dr. I.L. Aier completed the project titled “Politics and Social Structure: Sociological Study of Insurgency in Nagaland” funded by SAP-DRS Phase III, December 2010-January 2011, amount sanctioned Rs. 25,000/-.

Dr. A.K. Nongkynrih completed the project titled “A Study of Social Transformation and Tribes of North-East India: The Views of Tribal Youths” (Phase – II: Data tabulation and computation), amount sanctioned Rs.40,000/- 2010-2011.

Dr. D.V. Kumar completed a project on “Modernisation and Ethnicity: The Context of Telugus in Bengaluru” under SAP-DRS-Phase III during 2010-2011, amount sanctioned Rs. 55,000/-.

Dr. B. Panda completed the project entitled “Role of Self-Help Groups (SHGs) in Promoting Socio-Economic Development: A Study of SHGs in Meghalaya” (Phase II) under UGC- SAP Phase III, amount sanctioned Rs. 29,000/-.

Dr. R.M. Shangpliang conducted a project under the SAP-DRS-Phase III of the Department of Sociology. Topic “Water Scarcity in Rural Areas of East Khasi Hills-A case study of Mawsynram Village”. Amount sanctioned Rs.16,000/-.

Honours/Awards/Recognition

Dr. A. K. Nongkynrih was International Board Member of the Indigenous Peoples Assistance Facility of the International Fund for Agricultural Development, Rome (2010 – 2013). Was a member of State Advisory Group on Community Action of National Rural Health Mission, Department of Health and Family Welfare, Government of Meghalaya, 2011, Social Audit Bill Drafting Committee, Government of Meghalaya, Shillong, (2010 – 2011), State Level Monitoring Committee on Twenty Point

Programme, Government of Meghalaya, Programme Implementation and Evaluation Department, and a Non-Official Member of the Advisory Committee on Codification of Customary Laws, Khasi Hills Autonomous District Council, Shillong.

Other Academic Activities

Prof. Nikhlesh Kumar participated as a resource person in the ‘Post-Doc Initiation’ programme organised by the NERC-ICSSR, Shillong on 17th August 2010. Attended a one-day consultative meeting organised by the Decentralization Community of UN Solution Exchange on 26th November, 2010 at the Institute of Local Government and Urban Studies, Kolkata to discuss and formulate its Approach Paper for the Twelfth Five-Year Plan prepared by the Planning Commission, Government of India, New Delhi. Delivered two lectures in the Advance Course in Sociology and Anthropology organised by the NERC-ICSSR, Shillong on 30th Nov., 2010. Attended a three-day Consultative Workshop at Pune as a resource person from 7th to 9th Dec., 2010 organised by the Department of Education of Groups with Special Needs, NCERT, New Delhi for teachers in Maharashtra as part of its project titled “Designing of a Framework for Professional Development of teachers in the multi-lingual and multi-cultural context in high tribal population States”. Delivered two lectures in the Training Course in Research Methodology in Social Sciences organised by the NERC-ICSSR, Shillong on 14-15 Dec., 2010. Attended a three-day Consultative Workshop at Port Blair, Andaman Island as a resource person from 31st Jan. to 2nd Feb., 2011 organised by the Department of Education of Groups with Special Needs, NCERT, New Delhi for teachers in Andaman and Nicobar Islands as part of its project titled “Designing of a Framework for

Professional Development of teachers in the multi-lingual and multi-cultural context in high tribal population States". Participated as a resource person in the 'Post-Doctoral Initiation' programme organised by the NERC-ICSSR, Shillong on 17th March, 2011.

Dr. I.L. Aier was convener of the workshop on "Teaching of Sociology in the undergraduate level: An assessment of topics and reading materials" under SAP-DRS Phase III, Department of Sociology, 30th March, 2011.

Dr. A.K. Nongkynrih delivered a talk on "Youth and Environment" at the workshop under the North East Youth Festival, organised by Ministry of Youth Affairs and Sports, Government of India, 7th to 9th April 2011, Shillong. Delivered a lecture on "Understanding Threats and Challenges of National Integration: The role of youth in promotion of peace, harmony and unity" at the National Integration Camp, organised by the Nehru Yuva Kendra, Jowai, 17th December 2010. Delivered a lecture on 'Youth – Agents of Change: Participatory Learning and Action' at the Orientation Programme on Environment and Sustainable Development for NSS Functionaries, organised by Rajiv Gandhi National Institute of Youth Development, Sriperumbudur; NSS Regional Centre, Guwahati; and NSS NEHU, Shillong, 11-

13 May 2010. Delivered a lecture on "Climate Change and Politics" at the Consultation on Climate and Global Warming, organised by Samaritan Action for Social Transformation, Mawlein Mawkhan, Ri Bhoi District, 25th November 2010. Delivered lectures on "Secondary Data" and "Review of Literature" at a workshop on "Advance Course in Sociology and Social Anthropology, organised by Indian Council for Social Science Research North Eastern Regional Centre, Shillong, 26th November 2010. Delivered lectures on "Data Collection – Interpretation and Analyses" at a workshop on "Research Methodology in Social Sciences, organised by Indian Council for Social Science Research North Eastern Regional Centre, Shillong, 15th December, 2010. Delivered a lecture on "Understanding Threats and Challenges of National Integration: The role of youth in promotion of peace, harmony and unity" at the National Integration Camp, organised by the Nehru Yuva Kendra, Jowai, 17th December 2010.

Dr. B. Panda was a resource person for the North-East Regional Institute of Education, NCERT, Shillong in the workshop on "Role of NGOs in School Education at Elementary level Insights from NE India" held on 4th and 5th October 2010.

Chapter VIII

SCHOOL OF TECHNOLOGY

Dean : Prof. S. Choudhury
Telephone : 2723601(O), 2723602(O) 9774968195(M), 2723606(Fax)
Email : sushabhan@yahoo.com

The School of Technology was established in 2006. It consists of the departments of Electronics & Communication Engineering, Information Technology and Basic Sciences & Social Sciences. During the year

under report the faculty members were actively involved in teaching and collaboration research. The School organized its first Techno-Cultural Festival called ANAKALYPSI 2011 from 26th to 29th April 2011.

Department of Basic Sciences and Social Sciences

Teacher-in-Charge: Dr. A. Sinha
Telephone : 27236-41/-42 (O), 9863095102 (M)
Email : hodbsss@gmail.com

Thrust Area

The Department of Basic Sciences and Social Sciences has been established to provide valuable input from some basic sciences and social sciences for engineering departments.

Brief Statement of Academic Activities

The faculty members of the department taught some core courses of the departments of Electronics & Communication Engineering and Information Technology, and engaged themselves in research activities in their respective core fields of interest.

Faculty Profile

Professor (Adjunct) : Prof. (Mrs.) P.V. Koparkar, M.Sc., Ph.D. (Nagpur U)
Associate Professors : Shri A.B. Chetry, M.Sc. (GU)
Dr. A.K. Das, M.Sc. (IIT, Kgp), Ph.D. (CU)
Assistant Professors : Dr. Hiranjit Choudhury, M.Sc. (NEHU), Ph.D. (NEHU)
Dr. A. Sinha, M.Sc. (LU), Ph.D. (NEHU)
Dr. (Mrs.) Jyoti Narayan, M.Sc. (KU), M. Phil. (KU), Ph.D. (KU)
Smt. Evapynhun Giri, M.A. (NEHU), M. Phil. (NEHU)
Dr. Krishna Upadhaya, M.Sc. (NEHU), Ph.D. (NEHU)

Dr. M.D. Kushwaha, M.A. (BHU), Ph.D. (BHU)
Dr. M.M. Singh, M.Sc. (BHU), Ph.D. (PU)
Shri Sainkumar M.N. Mawiong, M.Sc. (NEHU)
Shri Jibitesh Dutta, M.Sc. (NEHU)
Shri Regenel S. Kharwanlang, M.Sc. (NEHU)
Dr. Phrangstone Khongjee, M.Sc. (NEHU), Ph.D. (NEHU)

Courses Conducted

Semester I: English & Communication Skills, Engg. Mathematics I, Engg. Physics I, Engg. Chemistry (Theory & Lab.), Basic Electrical Engg. (Theory & Lab.), Elements of Biotechnology, and Engg. Graphics. Semester II: Elements of Environmental Science, Engg. Mathematics II, Engg. Physics II (Theory & Lab.), Basic Electronics (Theory & Lab.) and Engineering Mechanics, Workshop Practice, Computer System and Programming (Theory & Lab.). Semester III: Engineering Mathematics III, Numerical Programming Laboratory (for IT only). Semester IV: Statistics and Random Processes.

Seminars/Conferences/Workshop/Extension Programmes

Attended

Dr. H. Choudhury presented a paper titled "Effects of vitrification solutions, exposure time, preculture, volume of vitrification solution on vitrification-based cryopreservation of Khasi pine (*Pinus kesiya* Royle ex. Gord.) shoot-apices" at the national symposium on Assessment and Conservation of Plant Genetic Resources Under Changing Environment, organized by UGC-CAS in Botany, Department of Botany, NEHU, Shillong, 8th-10th September 2010.

Dr. K. Upadhaya presented a paper titled "Identifying and prioritization of conservation areas in Meghalaya, northeast India" at the seminar on Biodiversity of North-East India-Issues and Concerns, organized by the Regional

Centre, National Afforestation and Eco-Development Board, NEHU, Shillong, 22nd May 2010.

Publications

Published in India

Sarma, K, OP, Tripathi, and K, Upadhaya. 2010. Landuse/land cover and community structure of major forest type in Garo Hill district. In: R Kaul, SK Tiwari, S Kyarong, R Menon, V Menon (eds.) *Canopies and Corridors-Conserving the Forests of Garo Hills with Elephants and Gibbons as Flagships*. Wildlife Trust of India, pp. 52-68.

Published Abroad

Dutta, J, and S, Chakraborty. 2010. Validity of Generalized Second Law in Holographic DGP Brane. *Gen. Rel. Grav.*, 42: 1863-1873.

Dutta, J, S, Chakraborty, and M, Ansari. 2010. Holographic Dark Energy and Validity of the Generalized Second Law of Thermodynamics in the DGP Brane World. *Mod. Phys. Lett. A*, 25 (36): 3069-3079.

Dutta, J, S, Chakraborty, and M, Ansari. 2010. Non Linear Equation of State and Effective Phantom Divide in DGP Model. *Int. J. Theor. Phys.* 49: 2680-2690.

Shukla, P, and RS, Kharwanlang. 2011. Critical Hysteresis in Random Field XY and Heisenberg Models. *Physical Review E*, 83: 011121.

Sinha, A, RK, Dutta, and SN, Bhat. 2010. Spectrophotometric and thermodynamic studies of micellar interaction of surfactants with *p*-Nitrophenol. *Journal of Dispersion Science and*

Technology, 31(10): 1383-1389.

Tripathi, OP, K, Upadhaya, RS, Tripathi, and HN Pandey. 2010. Diversity, dominance and population structure of tree species along fragment-size gradient of a subtropical humid forest of northeast India. *Journal of Environmental and Earth Science*, 2(2):97-105.

Research Projects

New

Micropropagation of *Nardostachys grandiflora* and *Malaxis wallichii*, two threatened medicinal plants of Northeast India, Sponsored by Department of Biotechnology, Ministry of Science and Technology, Government of India. Principal Investigator: Prof P. Tandon (Co-PI: Dr. H. Choudhury and Dr. Mrs. S. Kumaria).

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. Sponsored by Department of Atomic Energy (DAE), Government of India. Principal Investigator: Prof B. Kharbuli (Co-PI: Dr. A.K. Das and Dr. (Mrs.) J. Narayan).

Studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya. Sponsored by Department of Atomic Energy (DAE), Government of India. Principal Investigator: Prof. B. Kharbuli (Co-Investigators: S. K. Mawiong, Eva Giri, Prof. B.S. Mipun, Prof. D.K. Nayak, Dr. S.S. Chaturvedi, A.K. Maji of NEHU, and Dr. Mohan Chougongar of BARC, Trombay).

Academic Collaboration

Dr. A. K. Das has collaborative research with Prof. Alope Mukherjee of Jadavpur University, Kolkata, on the study of mineral physics of the

soil around the uranium mining site at Domiasiat in Meghalaya.

Dr. A. K. Das and Dr. (Mrs.) 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.

Dr. H. Choudhury has collaboration with Prof. P. Tandon and Dr. S. Kumaria of Department of Botany, NEHU, Shillong on micropropagation of *Nardostachys grandiflora* and *Malaxis wallichii*, two threatened medicinal plants of Northeast India.

Mr. S. K. Mawiong and Ms. Eva Giri have collaborative projects with (i) Prof. B. Kharbuli of Department of Zoology, NEHU, Shillong (ii) Prof. B.S. Mipun and Prof. D.K. Nayak of the Department of Geography, NEHU, (iii) Dr. S.S. Chaturvedi of the Department of Environmental Studies, NEHU, (iv) Mr. A.K. Maji of the Department of Information Technology, NEHU, Shillong and (v) Dr. Mohan Chougongar of BARC, Trombay on studies on health status and demographic pattern of population around Domiasiat area, West Khasi Hills, Meghalaya.

Honours/Awards/Recognition

Shri P. Khongji was awarded the degree of Doctor of Philosophy by NEHU for his work entitled "Studies on Some Preliminary Test Estimators in Double Sampling" under the supervision of Prof. (Mrs.) G. Das, Department of Statistics, NEHU, Shillong.

Other Academic Activities

Prof. (Mrs.) P. V. Koparkar attended the training programme for women scientists on Carbon Mitigation and Climate Change organized by DST, Govt. of India, held at Indian Council of

Forestry Research and Education, Dehradun, on 4th-8th October 2010, the national workshop on Modelling Biological Systems, jointly organized by Physics and Mathematics Unit of Indian Statistical Institute, Kolkata and Department of Physics, NEHU, Shillong, held at NEHU, Shillong, 25th-29th October 2010, and the Hands-on Training Programme on MEMS under national programme on Micro and Smart Systems (Fabrication of Prototypes of MEMS Poly-Silicon Piezo-Resistive Pressure Sensors. CEERI Pilani (CSIR, New Delhi), held at Pilani, Rajasthan on 17th-28th January 2011. Participated in the national seminar on Maintenance of Teaching Standards in Higher Education: Issues, Problems and Reforms, held at NEHU, Shillong, 25th-26th March 2011, jointly organized by ICSSR-NERC and NEHU Teachers' Association (NEHUTA).

Dr. M. M. Singh was selected as a mentor and he delivered a series of lectures at DST sponsored programme 'INSPIRE', organized by and held at NEHU, Shillong on 13th-17th December 2010.

Dr. A. K. Das attended the national seminar on Maintenance of Teaching Standards in Higher Education: Issues, Problems and Reforms, held at NEHU, Shillong, on 25th-26th March 2011, jointly organized by ICSSR-NERC and NEHU Teachers Association (NEHUTA).

Dr. M. M. Singh attended the international level seminar on The Future of Nano Electronics organized by Department of Electronics & Communications Engineering, NEHU, Shillong on 2nd April 2010 and the national level instructional workshop on Cryptology held at Manipur Central University, Imphal, on 5th-7th May 2010. Was invited as Guest Faculty to the Department of Mathematics, NEHU to give a course on Discrete Mathematics on 1st-31st March 2011.

Dr. H. Choudhury was invited as a resource person and delivered a series of invited talks and also imparted hands-on-training to the student participants in a Two-Day Training Programme on Practical Approach to Insilico Analysis of Genes and Proteins under the DBT-Star College Scheme-2010, organized by the Department of Biochemistry, Lady Keane College, Shillong, 26th-27th November 2010. Delivered a series of lectures as a resource person to the M. Sc. Biotechnology students on 'Cell Biology and Biochemistry' at the National Institute of Pharmaceutical Education & Research (NIPER), Guwahati, from 29th November to 1st December 2010 at Gauhati Medical College (GMC) Complex, Guwahati, Assam. Delivered a series of lectures as a resource person to the M. Sc. Biotechnology students on 'Recombinant DNA Technology' at the National Institute of Pharmaceutical Education & Research (NIPER), Guwahati, on 5th March 2011. Attended the national symposium on Assessment and Conservation of Plant Genetic Resources Under Changing Environment, organized by UGC-CAS in Botany, Department of Botany, NEHU, Shillong, held on 8th-10th September 2010. Attended the workshop on Preventing Extinction and Improving Conservation Status of Threatened Plants through Application of Biotechnological Tools, organized by UGC-CAS in Botany, Department of Botany, NEHU, Shillong, held on 17th-18th March 2011. Attended the workshop on Basic Principles, Preparatory Methods and Biological Application in Transmission Electron Microscopy, organized by Sophisticated Analytical Instrument Facility (SAIF), NEHU, Shillong, on 22nd-25th March 2011.

Dr. K. Upadhya attended the seminar on Biodiversity of North-East India — Issues and Concerns, organized by the Regional Centre,

School of Technology

National Afforestation and Eco-Development Board, NEHU, Shillong, 22nd May 2010, the workshop on Principles and Procedures of Qualifying for Carbon Credit by Reducing Emission from Deforestation and Forest Degradation (REED) under Clean Development Mechanism (CDM) organized by the Regional Centre, National Afforestation and Eco-Development Board, NEHU, Shillong, 9th-11th September 2010, and the workshop on Preventing Extinction and Improving Conservation Status of Threatened Plants through Application of Biotechnological Tools, organized by UGC-CAS in Botany, Department of Botany, NEHU, Shillong, held on 17th-18th March 2011.

Dr. (Mrs.) J. Narayan attended the Orientation Programme conducted by ASC-NEHU, 24th May to 20th June 2010. Attended the UGC sponsored short term course on Intellectual Property Rights held at ASC-NEHU, 6th-7th September 2010 and the international seminar on The Future Nanoelectronics (WIMNACT), organized by Department of ECE, NEHU, Shillong on 5th April, 2010. Attended the Hands-on Training Programme on MEMS, CEERI Pilani (CSIR, New Delhi), held at Pilani, Rajasthan on 17-28 January 2011.

Dr. P. Khongji attended the training workshop on Demographic Computations: Multistate Population Projection, jointly organized by the

Institute for Social and Economic Change (ISEC), Bangalore and the International Institute for Applied systems Analysis (IIASA), Austria and Technology Information, Forecasting and Assessment Council (TIFAC), New Delhi held at Population Research Centre, ISEC, Bangalore on 9th-13th November 2010 and the national seminar on Statistics and Informatics for Massive Data Sets, jointly organized by Indian Society of Agricultural Statistics, New Delhi and Department of Statistics, Kalyani University, West Bengal, held at BCKV, Kalyani, on 3-5 December 2010.

Shri J. Dutta attended the workshop on Modelling Biological Systems organized by Physics & Applied Mathematics Unit, ISI, Kolkata and Physics Department, NEHU, held at NEHU on 25-29 October 2010, and the Twenty Sixth Meeting of the Indian Association for General Relativity and Gravitation (IAGRG-26) held at the Harish-Chandra Research Institute, Allahabad, on 19-21 January 2011.

Ms. E. Giri served as a guest faculty of English in the Department of Law, NEHU, Shillong, during the academic year 2010-2011.

Shri S. K. Mawiong attended the Orientation Programme conducted by ASC-NEHU from 17th March to 14th April 2010 and the Refresher Course on Mathematics conducted by ASC-NEHU from 25th November to 15th December 2010.

Department of Electronics and Communication Engineering

Name of the Head : Dr. Lairenlakpam Joyprakash Singh
Telephone : 272 3661/272 3662(O), 94363 49192 (M)
Email : hodece@nehu.ac.in

Thrust Areas

Nanotechnology, Wireless Sensor Networks, MEMS and Sensor Design, Speech and Image Processing, and Optical Communication.

Brief Statement of Academic Activities

The department offers 4 years B.Tech. programme in Electronics and Communication Engineering. It has both vertical and lateral entries provisions. During the year under report, 7 students (5 from final year and 2 from pre-final year) qualified GATE examination. Campus

interviews were arranged for the students. Five faculty members underwent hands-on training on MEMS Device Fabrication at CEERI, Pilani on January 17-28, 2011. 4 seventh semester students were selected by Accenture while 2 students were recruited by Zaloni Inc. 3 final year students presented papers at the International Conference and Workshop on Emerging Trend in Technology (ICWET-2011) on February 25-26, 2011. The department also organised a one-day IEEE International Workshop: IEEE EDS Winnact – 23.

Faculty Profile

Professor : S. Choudhury, M. Tech. (Tezpur U), Ph.D. (Jadavpur U)
Associate Professors : L. Joyprakash Singh, M.Tech. (Tezpur U), Ph. D. (Jadavpur U),
 S. KabirDutta, M. Tech. (MIT, Manipal),
 S. C. Arya, Ph. D. (ISM Dhanbad)
Assistant Professors : J. Binong, B.E. (Bhavnagar U),
 R. K. Mudoi, M.Tech. (Tezpur U),
 F. Pyrtuh, M.Tech. (IIIT, Allahabad),
 J. Swarnakar, M.E. (Jadavpur U)

Student Intake

| | | | | | | | |
|-------------------------------------------------------------------------|----|----|-----|-----|------|--------|-------|
| Enrolment Capacity: B.Tech.: 63 (60 Vertical Entry and 3 Lateral Entry) | | | | | | | |
| Actual Admission: | | | | | | | |
| | SC | ST | Gen | OBC | Male | Female | Total |
| Vertical | 9 | 21 | 28 | 2 | 50 | 10 | 60 |
| Lateral | - | 1 | 1 | 1 | 0 | 3 | 3 |

Degree Awarded

| | | | | | | |
|--|----|----|-----|------|--------|-------|
| | SC | ST | Gen | Male | Female | Total |
| | 2 | 7 | 23 | 24 | 8 | 32 |

Courses Conducted

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

School of Technology

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, 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. Semester VII: Embedded Systems and Microcontrollers, Introduction to VLSI Design, Digital Communication, Advanced Digital Signal Processing, Digital Image Processing, Embedded Systems and Microcontrollers Laboratory, VLSI Design Laboratory, Digital Communication Laboratory and Minor Project. Semester VIII: Satellite and Optical Communication Systems, Mobile Communications, Cipher System, Nanotechnology and Major Project.

Seminars/Conferences/Workshops/Extension Programmes

Organised

The Future of Nanoelectronics, April 5, 2010, organised by IEEE, Calcutta section (IEEE Electron Device Chapter) and Department of ECE, NEHU, Shillong. Dr. L. J. Singh was the Organizing Secretary of this International IEEE workshop.

Attended

Dr. Subhash C. Arya has presented two research papers titled, “Ethics: An Effective way of Controlling Plagiarism,” and “Ethics in Scientific Research and Challenges faced by Young Scientist as they Embark on Their Carriers,” at the international conference on Sustainability: Management and Beyond organized by IIM Shillong and Concordia University, Canada at IIM Shillong during December 8-10, 2010, a research paper titled “EDFA Amplified MSK Optical Transmission System” at the international conference on Fiber Optics and Photonics-2010, on December 12-15, 2010, organized by IIT Guwahati in IIT Guwahati Campus.

Publications

Published Abroad

Arya, S. C., Agarwal, A., Kumar D., and Kharkongor J. S., Development of Novel Electronic-Nose Assembly for the Detection and Deletion of Fungi in North-East Region of India, *IJCA Proceedings on International Conference and Workshop on Emerging Trends in Technology (ICWET)* No. 11, article 4, pp. 21-25, 2011; ISBN: 978-93-80747-74-1.

Bhattacharjee, D., and Choudhury, S. Implementation of Self Diagnostic and Intelligent Power Management Protocols on Wireless Gas Sensor Node *International Journal of Engineering Science and Technology*, Vol. 3 No. 4 April 2011.

Bhattacharjee, D., Kumar, A., and Choudhury, S. Wireless Intelligent Smart Sensor network for Hazardous Gas monitoring *International Journal of Computer science and Information Technology*, Vol. 3 (No.1): 53-57, Jan-June 2010.

Bhattacharjee, D., Kumar, A., Kumar, S., and Choudhury, S. Design and Development of Wireless Sensor Node *International Journal*

on *Computer Science and Engineering*, Vol. 02, (No. 07): 2431-2438, 2010.

Bhattacharya, S., Choudhury, S., and Ghatak, K. P. On the two Dimensional thermoelectric power in quantum wells of non-linear optical, optoelectronic and related materials under magnetic quantization *Journal of Superlattices And Microstructures, Elsevier, The Netherlands*: pp. 257-275, 2010.

Kumar, A., Chowdhury, S., Ghosh, S., Mitra, M., De, D., Sharma, A., Bhattacharya, S. and Ghatak, K. P. The Photoemission from Quantum Wells, Wires and Carbon Nanotubes: Simplified Theory and Relative Comparison *Journal of Computational and Theoretical Nanoscience, USA, Vol. 7*: pp. 115-145, 2010.

Honours/Awards/Recognition

Prof. S. Choudhury was appointed as NAAC member and Dr. L. J. Singh was elected as a Sectional President of the Section 'Information and Communication Science and Technology (including Computer Sciences)' for the 99th Session of Indian Science Congress.

Other Academic Activities

Professor S. Choudhury attended as invited speaker and chaired a session of the International Conference on Networking in June 2010 at SMIT, Sikkim.

Dr. L. J. Singh attended the workshop on Image and Speech Processing (Wisp) – 2010 organized by IIT Hyderabad on December 16, 2010 and the Hands on Training in Micro Electro Mechanical Systems (MEMS) - Fabrication of Polysilicon Piezoresistive Pressure Sensors under NPMASS programme at Central Electronics Engineering Research Institute, Pilani, Rajasthan from 17 January - 28 January 2011.

Mr. S. K. Dutta attended ISI-TU Spring School on Algorithms organized by ISI Kolkata and

Tezpur University, Tezpur, Assam on 21st to 23rd March 2011.

Dr. Subhash C. Arya participated in Training Programme in Research Methodology organized by DST and AIIMS, New Delhi, on 16-21 August 2010, at AIIMS, New Delhi, and in the one day international conference on Future of Nanotechnology organized by Department of ECE, NEHU, Shillong and IEEE EDC, Calcutta Chapter on 5th April 2010 at NEHU, Shillong.

Mr. Rajkishur Mudoi has participated in the workshop on Promoting Entrepreneurship in Science and Technology Institutions organized by Entrepreneurship Development Institute of India at Shillong on 23rd June, 2010. The Faculty Development Programme organized by Federation of Universities on 13th September 2010 at Shillong Club, Shillong, the 12th Orientation Programme (Information Technology) organized by Academic Staff College (NEHU) from 14th February 2011 to 13th March 2011 at NEHU, Shillong, and completed the hands-on training programme on the fabrication of prototypes of MEMS poly-silicon piezo-resistive pressure sensors on January 17-28, 2011 at CEERI, Pilani.

Ms. Fidaliza Pyrtuh attended the one-day international seminar on The future of NanoElectronics (WIMNACT 23) organized by the ECE Department, NEHU, Shillong jointly with IEEE Electron Device Chapter of IEEE Calcutta section, held on 5th April 2010 at NEHU and the Hands on Training in Micro Electro Mechanical Systems (Fabrication of polysilicon Piezoresistive pressure sensors) from 17 to 28 January, 2011 at Central Electronics Engineering Research Institute, Pilani, Rajasthan.

Mr Jaydeep Swarnakar attended the one-day international seminar on The future of NanoElectronics (WIMNACT 23) organized by

School of Technology

the ECE Department, NEHU, Shillong jointly with IEEE Electron Device Chapter of IEEE Calcutta section, held on 5th April 2010, at NEHU, and the Short Term Training Programme on Fuzzy Logic: A tool for intelligent approach held at NITTTR, Kolkata from 27.09.2010 to 01.10.2010, organized by NITTTR Kolkata.

Mrs. Friedalin S. Cajee attended the one-day IEEE EDS MINI-COLLOQUIUM (WIMNACT 23) on The future of Nano Electronics organised by IEEE, Calcutta section (IEEE Electron Device Chapter) and Department of ECE- NEHU, Shillong on 5th April 2010 at NEHU, Shillong, the one-day sensitization workshop on Promoting Entrepreneurship in Science and Technology Institutions, organised by Entrepreneurship Development Institute of India (EDI) and sponsored by NSTEDB, Department of Science and Technology, Government of India, on 23rd June 2010 in

Shillong, and the Hands on Training in Micro Electro Mechanical Systems (Fabrication of polysilicon Piezoresistive pressure sensors) under NPMASS at Central Electronics Engineering Research Institute, Pilani, Rajasthan from 17 to 28 January, 2011.

Mr. Subhendu De attended the one-day international seminar on The future of NanoElectronics (WIMNACT 23) organized by the ECE Department, NEHU, Shillong jointly with IEEE Electron Device Chapter of IEEE Calcutta section, held on 5th April 2010, at NEHU, Hands on Training in Micro Electro Mechanical Systems (Fabrication of polysilicon Piezoresistive pressure sensors) held from 17 to 28 January, 2011 at Central Electronics Engineering Research Institute, Pilani, Rajasthan, and an Orientation Course at Academic Staff College, NEHU, from 13th Sept. to 8th Oct 2010.

Department of Information Technology

Name of the Head : Bubu Bhuyan
Telephone : 0364-2723611 (O), 9436732296 (M)
Email : b.bhuyan@gmail.com

Thrust Areas

Information Security, Networking, Algorithm, Data mining and Computational Biology.

Faculty Profile

Associate Professor : I. Hussain, M. Tech. (Tezpur U)
Reader : B. Bhuyan, M.Tech (Tezpur U)
Assistant Professors : S. Roy, M. Tech. (Tezpur U)
A. Maji, M. Tech. (BESU, Shibpur)
S. Neog, M. Tech. (Tezpur U)
S. Das, M.Tech (Tezpur U)
S. C. Sahana M.Tech (Tezpur U)

Student Intake

| | | | | | | |
|---------------------------------|----|----|-----|------|--------|-------|
| Enrolment Capacity: BTech IT 60 | | | | | | |
| Actual Admission: | SC | ST | Gen | Male | Female | Total |
| | 4 | 16 | 40 | 47 | 13 | 60 |

Courses 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 Languages 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. Semester VII- Professional Ethics & IPR, Web Technology, Software Engineering, Data Mining, Distributed Systems, Artificial Intelligence , Internet and Application Technologies, Web Technology Lab, Software Engineering Lab, Visual Programming Lab, Minor Projects. Semester VIII - Marketing Strategies and Planning, Mobile Communications, Internet Protocol, E-Commerce, Mobile Computing, Major project.

Seminars/ Conference /Workshops/Extension Programmes

Attended

A.K. Maji has presented a paper titled “A

Systematic Approach for Solving Sudoku Puzzle” at the International Conference on Computing & Systems, 2010, Burdwan University.

I. Hussain presented a paper titled “QoS Issues in Long Distance Wireless Networks for Rural Areas” at the National Conference on Trends in Machine Intelligence 2011, Tezpur University.

Publications

Published in India

Maji, Arnab K. and Rajat K. Pal. “Yet Another Organized Move towards solving sudoku puzzle”. *International Journal of Advanced Research in Computer Science*, Vol. 1, No. 3: pp 370-375, Sep-Oct, 2010.

Roy, S and D K, Bhattacharyya. “Reconstruction of Genetic Network in Yeast using Support Based Approach”. *Intl. Conf. on Trends in Information Sciences and Computing (TISC)*, IEEE, pp. 116-121, 2010.

Maji, Arnab K. and Rajat K. Pal, “A Systematic Approach for Solving Sudoku Puzzle”, *Proceedings of International Conference on Computing & Systems*, 2010, Burdwan University, pp 168-174

Maji, Arnab K. and Santi G. Maji, “A Secured Mobile Payment Model for Mobile Marketing in Developing Countries”, *Proceedings of National Conference on SIM Marketing*, 2010, Saintgits Institute of Management Studies, 2010.

Published Abroad

Roy, S and D K, Bhattacharyya. 2010. *Data Mining Techniques and its Application in Medical Imagery*. Berlin: Aktiengesellschaft & Co.KG.

School of Technology

Roy, S and D K, Bhattacharyya. Extracting Support Based k most Strongly Correlated Item Pairs in Large Transaction Databases. *Intl. Journal of Comp. Sc. Issues*, (Vol 7, no 5): pp. 102-111, 2010.

Research Projects

New

Development of New Algorithms for Variable Key Cryptography Funding agency: Ministry of Communication and Information Technology, DIT, GOI. PI: B. Bhuyan, Co-investigator: S. Roy.

Other Academic Activities

B. Bhuyan was invited as a resource person in the AICTE sponsored Faculty Development Programme held at the Bengal Institute of

Technology and Management, Santiniketan from 5th April 2010 to 16th April 2010 and has delivered lectures on AVK based Security 09th April 2010. Attended the Refresher Course in Computer Science at University of Hyderabad from 19th January to 8th February 2011 and obtained "A" grade.

A.K. Maji participated in the UGC sponsored 77th Orientation Programme at Academic Staff College, Burdwan University, from 27th October 2010 to 23rd November 2010 and obtained "A" grade.

S. Roy, B. Bhuyan, and S. Das has attended a winter school on Soft Computing, conducted jointly by Indian Statistical Institute, Kolkata and Tezpur University during December 2010.

Chapter IX ADMINISTRATIVE DEPARTMENTS

Campus Development Department

Name of the Consultant : Sri K. Najjar
Phone : 2722061(O)

The Campus Development Department is concerned with all the construction works of the University. The report for the year under report is as follows.

| Sl. No. | Name of Work/Project in Permanent Campus, Shillong | Status |
|-------------|-------------------------------------------------------------------------------------------------------------|------------------|
| 1. | Construction of Guest House for UGC Academic Staff College | Work in progress |
| 2. | Construction of Seven Warden's residences | Work in progress |
| 3. | Construction of 42 units of Non-Teaching Staff Quarters | Completed |
| 4. | Raising of additional floor over the existing building (Block No.4,5,6,7,8,9 & 10) for School of Technology | Work in progress |
| 5. | Proposed extension of Department of Law | Work in progress |
| 6. | Construction of Cluster of Class Rooms | Work in progress |
| 7. | Construction of NEICoD complex | Work in progress |
| 8. | Construction of 16 P-Type Teachers' Quarters | Completed |
| 9. | Construction of 4 th block (six units) of International Students' Hostel | Work in progress |
| 10. | Construction for completion of ground floor of Health Clinic Building | Work in progress |
| Tura Campus | | |
| 11. | Construction of building for Academic Block | Completed |
| 12. | Construction of building for Faculty Block (Management) | Completed |
| 13. | Construction of Boys' Hostel Building | Completed |
| 14. | Construction of Girls' Hostel Building | Completed |
| 15. | Construction of Library Block | Completed |
| 16. | Construction of Main Road and Link Road (Phase - II) | Work in progress |
| 17. | Construction of building for Academic Block (Phase-II) | Work in progress |
| 18. | Construction of building for Faculty Block (Management) (Phase-II) | Work in progress |
| 19. | Construction of Boys' Hostel Building (Phase-II) | Work in progress |
| 20. | Construction of Girls' Hostel Building (Phase-II) | Work in progress |
| 21. | Construction of Library Block (Phase-II) | Work in progress |
| 22. | Construction of boundary wall for 4 Km | Completed |
| 23. | Construction of 2 units of Wardens' Qtrs | Completed |

Administrative Departments

College Development Council

Director : Dr. C. R. Diengdoh
Telephone : 2721201, 2721202, 2721203 (O)
Email : direcdc@nehu.ac.in

The College Development Council provides a leadership role and extends help, guidance and advice to all the affiliated colleges admitted to the privileges of the University. The Council is the Principal Advisory Body to the Executive Council and the Academic Council in all matters relating to affiliation. It is constituted every two years and has representatives comprising university officials, faculty members, a representative of the State Government, principals and teachers of affiliated colleges. It provides a forum for taking measures for continuously improving the general educational standards of the affiliated colleges.

The University has 66 affiliated colleges of which 32 are permanently affiliated and 34 are provisionally affiliated. Besides affiliating colleges located within the State of Meghalaya, the University also considers affiliating Minority Educational Institutions located anywhere in the country as per the provisions of the National Commission for Minority Educational Institutions (NCMEI) Act. At present, the colleges affiliated under the provisions of NCMEI are located in the States of Assam, Jharkhand, Andhra Pradesh and Gujarat.

The Council functions as the liaison between the affiliated colleges and the University Grants Commission in forwarding various proposals of colleges to the UGC for obtaining funds under

the different schemes for the overall development of colleges.

The Colleges visited by various Inspection Teams during the year are (i) Goodwill College, Shillong, (ii) St. Dominic's College, Shillong, (iii) Lady Keane College, Shillong, (iv) NEIGRIHMS College of Nursing, Shillong, (v) Durama College, Tura, (vi) St. Edmund's College, Shillong, (vii) North East Adventist College, Thadlaskein, (viii) Mairang Presbyterian Science College, Mairang, (ix) K.L. Bajoria College, Shillong, (x) Jaintia Eastern College, Khliehriat, (xi) METAS Adventist College, Surat, Gujarat, (xii) Union Christian College, Ri-Bhoi District, (xiii) St. Mary's College, Shillong, (xiv) Umshyrpi College, Shillong, (xv) Thomas Jones Synod College, Jowai, (xvi) Christian Academy College, Shillong, (xvii) Shillong College, Shillong, (xviii) B.B.S College, Shillong, (xix) Synod College, Shillong, (xx) St. Anthony's College, Shillong, (xxi) Mawsynram Border Area College, Mawsynram, (xxii) Regional Institute of Science & Technology, Ri-Bhoi District and (xxiii) Don Bosco College of Teacher Education, Tura.

During 2010-2011, two of the permanently affiliated colleges, St. Mary's College and Shillong College, have been reaccruited by the National Assessment and Accreditation Council (NAAC), Bangalore with Grade A and Grade B respectively.

Examination Department

Controller of Examinations : Professor K. Ismail
Telephone : 0364 2721211 / 1212, 94361 03293 (mob)
Email : offcoe@nehu.ac.in

During the year under review, the Examination Department declared the undergraduate results in time due to computerization of the system. Efforts are also being made to computerize the postgraduate results through the University Management System.

The department is mandated to operate round the year on all matters relating to undergraduate and postgraduate examinations including professional courses, which include declaration of MPhil and PhD results. With the increase in the number of affiliated colleges and students in postgraduate programmes, this department is gearing up to meet the new challenges. The Choice Based Credit System (CBCS) is in its 3rd year of operation and the department is able to generate computerized grade card for all PG examinations. Similarly, computer generated grade cards have been devised and issued in respect of MPhil, PhD and BTech programmes also.

Under the Choice Based Credit System, evaluation of answer scripts has been done internally with the cooperation of all faculty members of the University, which has resulted in timely declaration of the PG results.

The University has adopted the MPhil and PhD Course Work examinations under the UGC guidelines and the examinations for the same

were conducted in February 2011 the results of which were declared in time.

The department has also conducted examinations for the 3 new courses started in the Regional Institute of Science and Technology (RIST) affiliated to this University in Mechanical, Civil, Electrical & Electronics Engineering.

The department has been receiving substantial number of requests from external agencies for verification and authentication of certificates/documents in respect of students of this University seeking employment. The department has made special efforts to respond to the requests expeditiously.

The University has notified that those students who have qualified for their respective degrees in the calendar year 2010 have been admitted by the Vice Chancellor to their respective degrees in absentia which is as per provision in the NEHU Ordinance.

In view of the austerity measures initiated by the Government of India, this department is making special efforts in curtailing the expenditure with regard to UG and PG examinations. The enrolment of students and results during the year under report are given in Annexures A, B, C, D & E.

Administrative Departments

Finance Department

Name of the Finance Officer : Mr. Taliremba, IDAS
Telephone : 2721021 (O)
Email : fo@nehu.ac.in

The receipt and payment account of the University for the year 2010-11 is as follows:

| Receipt in Rs. | | Payment in Rs. | |
|--------------------------|------------|------------------|-----------|
| Non Plan grants from UGC | 941110000 | Salary and wages | 719266215 |
| Internal Receipt | 50420671 | Pension | 132438957 |
| Plan/UPE | 627635000 | Revenue | 169746946 |
| Min. of Social Justice | 9410000 | Capital | 15498345 |
| Sponsored Projects | 2613031111 | Salary and wages | 5694912 |
| | | Revenue | 102160789 |
| | | Capital | 442304743 |
| | | Recurring | 117136697 |
| | | Capital | 89416621 |

Planning Department

Officer-in-Charge : Dr. J. N. Nayak, Deputy Registrar
Phone : 2721065 (O)
Email : jnnayak@nehu.ac.in

The Planning Department of the University was established in 1978 with the main objectives of designing as well as monitoring the implementation of the vision plan for the overall development of the University in the field of academics, infrastructure development and welfare activities.

During the XI Plan (1.4.2007 to 31.3.2012) an amount of Rs. 12,380.00 lakhs under the Head "General Development" was approved for the University out of which the University has already received Rs.8390.00 lakhs by 31.12.2010 as per details given in the following table:

| Item | UGC allocation (In lakhs) | Expenditure up to 31.12.10 (In lakhs) | Balance out of allocation as on 1.1.2011 (In lakhs) |
|-----------|----------------------------|----------------------------------------|------------------------------------------------------|
| Building | Rs. 9326.00 | Rs. 7880.19 | - |
| Equipment | Rs. 400.00 | Rs. 68.29 | Rs. 331.71 |

NEHU Annual Report 2010-2011

| | | | |
|--------------------|-------------|------------|-------------|
| Books & Journals | Rs. 200.00 | Rs. 121.19 | Rs. 78.81 |
| Staff Salary | Rs. 1669.00 | Rs. 52.01 | Rs. 1616.99 |
| Campus Development | Rs. 200.00 | Rs. 72.23 | Rs. 127.77 |
| Central Facilities | Rs. 75.00 | - | Rs. 75.00 |
| Others | Rs. 15.00 | Rs. 15.01 | Rs. (-) .01 |

In addition to the above Rs. 517.50 lakhs was approved under the Head "Merged Scheme" and Rs. 800.00 lakhs for disbursing fellowship to Research Scholars undergoing MPhil/PhD courses.

In addition to the XI Plan grants mentioned

above, the University has also received Rs 1899.00 lakhs for North East India Centre for Diversity (NEICOD), Rs.389.84 lakhs for 100 seated guest house, Rs.4000.00 lakhs for development of Tura Campus, and Rs.1800.00 lakhs for faculty of Engineering & Management.

Chapter X CENTRAL SERVICES

Academic Staff College

Name of the Director : Prof. Rakesh Mohan
Phone : Office: 0364-2721401/2721402; 2550103 (Fax)
Email : asc@nehu.ac.in; ascnehu@gmail.com

Thrust Area

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.

Brief Statement of Academic Activities

During 2010-11, the UGC-ASC conducted 13 Refresher Courses, 5 Orientation Programmes, 1 Short Term Course, and trained 461 teachers belonging to various universities and colleges recognized by the UGC. Further, the UGC-ASC established a computer laboratory with state-of-the-art equipment.

Faculty Profile

Professor-Director : Prof. Rakesh Mohan, M.Sc., Ph.D., (BCKV)
Reader : Dr. (Mrs.) Quendarisa Kharbuli, M.Sc., Ph.D. (NEHU)
Assistant Professor : Dr. (Mrs.) Kuheli Biswas Das, M.Sc., Ph.D. (NEHU)

Courses Conducted

The UGC-Academic Staff College conducted the following courses during 2010-11:

| Orientation Programme | Duration | No. of Participants |
|-------------------------------------------------|--------------------------|----------------------------|
| 9th Orientation Programme (General) | 19/04/2010 to 16/05/2010 | 35 |
| 10th Orientation Programme (General) | 24/05/2010 to 20/06/2010 | 38 |
| 11th Orientation Programme (Non-Teaching Staff) | 13/09/2010 to 10/10/2010 | 17 |
| 12th Orientation Programme (IT) | 14/2/2011 to 13/3/2011 | 29 |
| 13th Orientation Programme (General) | 16/2/2011 to 15/3/2011 | 35 |

Refresher Courses

| | Duration | No. of Participants |
|-------------------------------|--------------------------|----------------------------|
| Folkloristic & Semiotics (ID) | 26/06/2010 to 16/07/2010 | 24 |
| Environmental Science (ID) | 26/06/2010 to 16/07/2010 | 20 |

NEHU Annual Report 2010-2011

| | | |
|-----------------------------------|--------------------------|----|
| Geography | 1/11/2010 to 20/11/2010 | 16 |
| Political Science | 15/11/2010 to 6/12/2010 | 28 |
| Mathematics | 25/11/2010 to 15/12/2010 | 21 |
| History | 25/11/2010 to 15/12/2010 | 28 |
| Business Studies (ID) | 29/11/2010 to 19/12/2010 | 18 |
| Adult & Continuing Education (ID) | 2/12/2010 to 22/12/2010 | 18 |
| Chemistry | 23/2/2011 to 15/3/2011 | 19 |
| Sociology | 24/2/2011 to 16/3/2011 | 18 |
| English & Comparative Literature | 3/3/2011 to 23/3/2011 | 18 |
| Botany | 17/3/2011 to 6/4/2011 | 18 |
| Zoology | 17/3/2011 to 6/4/2011 | 15 |

Seminars/Conferences/Symposia/ Workshops/Extension Programmes

Organized

The College organized the first ever Two-day Short Term Course on “Intellectual Property Rights” on 6-7 September 2010. It was attended by 47 participants. Dr. Rajendra Prasad, Chairman, Merit India, New Delhi and Advocate H. Thangkhiew were invited to deliver lectures for the workshop.

Publications

Published in India

Mohan, R. and Kabra K.C. (2010) Agriculture and Forestry: Road Map to Employment. In *Development Scenario of North-East India*. Ed. J.U. Ahmed, DVS Publishers, Guwahati, pp. 8-41.

Published Abroad

Saha, N., Jyrwa L.M., Das, M. and Biswas, K.

(2011) Influence of increased environmental water salinity on gluconeogenesis in the air-breathing walking catfish, *Clarias batrachus*. *Fish Physiology and Biochemistry* (DOI 10.1007/s10695-011-9468-1) (Springer Link, The Netherlands).

Funds Received

The Academic Staff College was sanctioned Rs 95.00 Lakhs for the year 2010-11 by the University Grants Commission, New Delhi, for conducting Refresher Courses and Orientation Programmes in approved subjects and for meeting other expenditures.

Other Academic Activities

Prof. Rakesh Mohan delivered two lectures in the UGC sponsored Refresher Course in Environmental Studies, Gauhati University, Guwahati, July 2010.

Bioinformatics Centre

(Upgraded to Distributed Information Centre from 2010-2011)

Name of the Coordinator : Prof. Pramod Tandon
Name of the Deputy Coordinator : Prof. Veena Tandon
Phone : Office: (0364) 272 2312/1241/1242
Email : tandonveena@gmail.com, nehuniv.btisnet@mail.nic.in

Thrust Area

The Bioinformatics Centre (BIC) at North-Eastern Hill University (NEHU) has been set up in 1999 by Department of Biotechnology (DBT), Ministry of Science & Technology under the Biotechnology Information System Network (BTIS). This has been to cater to the needs of the scientific community in the far-flung northeastern region of the country and to augment their research activities through information inputs. The most important area of research relevant to the northeastern region being biodiversity, the facilities of the Centre is extensively used for preparation of databases.

Brief Statement of Academic Activities

The Centre organized a training course in "Bioinformatics: A Practical Approach" on April 19 - 24, 2010. It also organised lectures and practical classes on "Bioinformatics and molecular taxonomy" for participants of Refresher Courses in Zoology & Botany (March 2010) and Orientation programmes (April-May 2010) conducted by the Academic Staff College, NEHU, Shillong. A one-day lecture and hands-on practical in Bioinformatics was also organized on October 26, 2010 for 22 undergraduate students attending the Summer School organized by Botany Department.

Publications

Published Abroad

Dkhar, J., S. Kumaria and P. Tandon. 2010.

Molecular evidence suggests that the Indian plant called *Nymphaea alba* var. *rubra* is a hybrid originating from *N. alba* and *N. odorata*. *Annales Botanici Fennici*.

Dkhar, J., S. Kumaria, S. R. Rao and P. Tandon. 2010. Molecular phylogenetics and taxonomic reassessment of four Indian representatives of the genus *Nymphaea*. *Aquatic Botany* 93: 135–139.

Ghatani, S, Shylla JA, Tandon V, Chatterjee A and Roy B. (2011) Molecular characterization of pouched amphistome parasites (Trematoda: Gastrothylacidae) using ribosomal ITS2 sequence and secondary structures. *Journal of Helminthology*.7:1-8.

Prasad, P. K., Tandon, V. and Chatterjee, A. (2011) PCR based molecular characterization and in-silico analysis of food-borne trematode parasites *Paragonimus westermani*, *Fasciolopsis buski* and *Fasciola gigantica* from North-East India using ITS2 rDNA. *Bioinformation* 6(2):64-68.

Shylla, JA, Ghatani S, Chatterjee A, Tandon V. (2011) Secondary structure analysis of ITS2 in the rDNA of three Indian paramphistomid species found in local livestock. *Parasitology Research* 108(4):1027-32.

Tandon, V., Biswal D. K., Prasad P. K. and Malsawmtluangi C. (2011) Reconstructing the Phylogenetic Relationships of the Cyclophyllidean Cestodes: A Case Study Using ITS2 rDNA and Sequence-Structure Alignment.

Biomedical Engineering Systems and Technologies, Communications in Computer and Information Science. Volume 127, 1st edition. Edited by Fred, A; Filipe, J; Gamboa, H. Springer-Verlag; Part 5, 309-321, DOI: 10.1007/978-3-642-18472-7_24.

Infrastructure Facilities Available at the Centre

Computer & Communication facility

Leased Line Internet Connectivity (4 Mbps plus 2 Mbps through DeLCON w.e.f. December 2010). Implementation of LAN on a Structured CAT 5 UTP Cabling Network using Switches and Hubs.

Research Projects

Completed

A database on medicinal plants (nearly 400 species) under the “Network Project Development of Database of the Indian Himalayan Region” –S.K. Barik (PI), Umashankar (Co-PI), N. Chrungoo (Co-PI) and Veena Tandon (Co-PI) sanctioned by NMPB, Department of AYUSH, MH & FW, Govt. of India, (2008-10).

Ongoing

“North-East Parasite Information and Analysis Centre (NEPIAC): an *in silico* approach” – (Veena Tandon (PI), Devendra Kumar Biswal

(Co-PI) and S. Ramachandran (Co-PI) with IGIB and TCGA, New Delhi) - sanctioned by DIT (MCIT, GOI), (2008-2011).

New

- a) Collaborative project with JNU, New Delhi on “Next Generation Sequencing and Genome Information of Parasite Biodiversity of medico-veterinary significance in North-East India” to Veena Tandon (PI), Devendra Kumar Biswal (Co-PI) and Alok Bhattacharjee (PI), JNU, New Delhi under DBT NER Twinning Programme (2011-14) vide sanction no. BT/48/NE/TBP/2010 dated March 14, 2011.
- b) Establishment of Portal for Indian Bioresource Information Network (IBIN) - Veena Tandon (PI), Devendra Kumar Biswal (Co-PI) under National Bioresources Development Board (NBDB, DBT) (2011-2014) vide sanction no. BT/PR14571/NDB/52/187/2010 dated March 04, 2011.

Any Other Activities

The Centre is actively involved in the maintenance and development of the NEHU official website: <http://www.nehu.ac.in>

Central Library

Name of the Librarian : Mrs. I. Majaw
Telephone : 2721251 (O)

In an effort to improve the library services the library took initiative towards building e-resources in the form of e-journals, databases and e-books through allocations from the Grant-in-Aid for the School of Technology. During

the period under report, IEL Online (241 titles, 5 users) & ACM Digital Library, both databases through INDEST-AICTE Consortium, Elsevier Engineering Backfiles (174 titles), Elsevier Engineering & Computer Science e-journals

Central Services

Current (273 titles), Springer's Lecture Notes in Computer Science (LNCS) e-Book Series were added to the existing list of e-resources subscribed by the library. The UGC INFONET Digital Library Consortium also activated a trial offer of 1036 Science Direct e-journals from 10 subject collections to 50 universities covered under Phase I of the consortium including NEHU. The Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India included NEHU as one of the members of the DeLCON-Consortium. Currently the Consortium includes 14 DBT Institutions including ICGEB, New Delhi and 18 North Eastern Region (NER) institutions including the Bioinformatics Centre, NEHU. Consequently, membership to such a new consortium further augments the existing e-journals that are already available for the university through the UGC INFONET Digital Library Consortium and enables the library to further provide quality information through the activation of additional 917 selective journals. The availability of these e-resources will definitely be highly beneficial to researchers, faculty members and students of the University. The library also inaugurated the Private Scholarly Collections of rare and priceless

books dating back to 1900 which once belonged to renowned scholars viz., A.C. Banerjee, Yamunacharya, Prof. Niharanjan Roy, Prof. P.N. Kaula, Col. Yusuf Ali and Prof. R.S. Lyngdoh. One of these books titled *The Supreme Power* has an endorsement in Mahatma Gandhi's own handwriting on the title page and was a major attraction among visitors on the day of inauguration.

Digital Library

NEHU Digital Library was established under the UGC funded project 'University with Potential for Excellence' and under the leadership of Prof. A. S. Chandel. Its main objective is to provide global access to the intellectual contributions of NEHU faculty members. In view of this, it developed institutional repository in its first phase by converting scholarly contributions of NEHU faculty members into digital format with full text providing all possible access points for searching. Digitization of NEHU administrative documents, PhD and MPhil theses, collection on North East, rare collection and other material of academic interest are in progress. E-resources including all issues of *The NEHU Journal* are available in the Digital Library at: <http://Dspace.nehu.ac.in>

Library Budget

(Rs. in Lakhs)

| | | | | |
|-------------|-------------------------------------------|--------------|-------|--------|
| 1. | Books | Non-Plan | - | 21.50 |
| | | Plan | 21.50 | |
| 2. | Periodical | Sciences | 53.49 | 64.75 |
| | | Non-Sciences | 11.26 | |
| 3. | Other Charges | | | 2.82 |
| 4. | Grant under XI Plan for 9 new departments | Plan | | 61.50 |
| 6. | Grant in Aid for School of Technology | Plan | | 125.00 |
| Grand Total | | | | 275.57 |

NEHU Annual Report 2010-2011

| | |
|------------------------------------------------|----------------|
| Library Collection: | 2,62,253 Vols. |
| Data Bank (Government Publications & Reports): | 14075 Vols. |
| Books added during the Year: | 4125 Vols. |

Periodical Subscription

| | |
|-----------------|-----|
| Foreign Journal | 144 |
| Indian Journal | 158 |
| Total | 302 |

Usage

| | |
|---------------------------------------------|------|
| (i) Undergraduate Students: | 831 |
| (ii) Postgraduate Students: | 2189 |
| (iii) Research Scholars: | 1400 |
| (iv) University Teachers: | 353 |
| (v) Non-Teaching Staff: | 529 |
| (vi) Technical Staff: | 90 |
| (vii) Visiting Lecturer/Professors: | 13 |
| (viii) Others (Including College Teachers): | 68 |
| Total No. of Registered Members: | 5473 |

Daily Average No. of books issued/returned/renewed 537

Daily Average No. of users who availed consultation services: 432

Usage of Journals/Back Volumes in terms of numbers per month

| | |
|----------------------|---------------|
| - Students : | 200 per month |
| - Research Scholars: | 250 per month |
| - Others: | 50 per month |

Average internet users: 30 per day

Photocopying services: 97,011 copies

Printing Services : 5554 copies

Resources sharing under UGC INFONET Digital: 417 articles

Library Consortium Inter Library Loan Services

using JCCC dispatched to universities

NEHU usage of UGC INFONET Digital Library: 1,19,723 articles

Consortium e-journals depicted by total

articles downloaded during the period

Initiatives taken

- (i) Awareness cum Orientation Programme for newly enrolled students and research scholars:

The Documentation Section of the Library

coordinated an awareness-cum-orientation programme on 1st – 8th September 2010 for the newly admitted students and research scholars of the university. The aim of this programme was to teach the potential users

with methods and procedures to acquire relevant information available in the library and also to equip them with latest information retrieval and resource sharing skills. Users, after attending this programme were able to retrieve the various information resources available both in print and electronic formats, subscribed/purchased by the Library and also through the UGC INFONET Digital Library and INDEST-AICTE Consortium.

- (ii) Exposure to e-resources across the academic fraternity:

The Computer Unit of the library coordinated a number of training-cum-awareness program on the access and usage of e-resources available in NEHU.

Subscription to e-journals, e-books and databases

Through annual funds allocated to respective departments along with support from grant-in aid for the School of Technology, the library subscribed to the following e-resources and database which could be accessed by users from all academic departments of the university.

- (a) Biological Abstracts
- (b) Indian Statistical database (IndiaStat.com)
- (c) IEL Online (241 titles, 5 users) through INDEST-AICTE Consortium
- (d) ACM Digital Library through INDEST-AICTE Consortium
- (e) Elsevier Engineering Backfiles (174 titles)
- (f) Elsevier Engineering & Computer Science e-journals Current (273 titles)
- (g) Springer's Lecture Notes in Computer Science (LNCS) e-Book Series

For the convenience of the users hyperlinks leading to the above respective home pages are

being provided on the Library's website (<http://www.nehu.ac.in/library>).

Student Internship Programme

During the period under report, a 3-month Student Internship Programme for hands-on training was successfully conducted in 4 important sections of the library which include Acquisition, Technical, Periodicals and Circulation sections. 4 students having degree in MLISc participated in the programme. A completion certificate was also issued to the four students at the end of the programme.

Academic Activities

Shri Manoj Rana, Assistant Librarian, guided a project entitled "Library Automation in Kendriya Vidyalaya Sangathan: a Comprehensive Study" for Shri Prashant Kumar Meher (Student of Master in Library and Information Science, IGNOU, Shillong Centre). He also participated in the national seminar on "Personality Development in the Library Profession" at NEHU, Shillong, Meghalaya, India organized by the Department of Library and Information Science, NEHU on 21-23 October 2010 and in the "UGC – Sponsored 11th Orientation Programme on Educational Administration" organized by ASC, NEHU on 13 September–10 October 2011 at NEHU.

Dr. (Mrs) I Majaw delivered two lectures at the 21 days Refresher Course organized by the Academic Staff College, Gauhati University, during November 2010.

Revenue collected during the year

- Reprography services: Rs.1,13,673.00
- Consultation fees : Rs. 3690.00
- Overdue fines : Rs. 22,746.00
(including Law Library)

Total : Rs. 1,40,109.00

NEHU Annual Report 2010-2011

Achievements

Dr. Lalhmachhuana, Documentation Officer, was awarded the “Silver Jubilee Medallion for Excellence” by the Department of Library &

Information Science, NEHU, Shillong on 21st October 2010 for securing the highest marks in MLISc. during the last 25 years.

Tura Library

Assistant Librarian : Sri A. Jeevan Singh

During 2010-2011, the Library computerised the database and made the data available online through OPAC. The library also provided Internet facilities are also provided to the

students, research scholars and faculty members to access the desired reading materials for their academic enhancement. The detailed report is as follows:

| | |
|-------------------------------------------------------|-----------|
| No. of Journals Subscribed | 67 |
| Indian Journals | 47 |
| Foreign Journals | 20 |
| Books Added during the year | 368 |
| Purchased | 359 |
| Gifted | 09 |
| Library Membership Statistics: 356 in all | |
| Library Circulation Statistics: | |
| Books issued | 18645 |
| Books Returned | 17510 |
| Consulted | 63327 |
| Statistics of Reprographic Unit of Campus Library: | |
| Total No. of Xerox Exposures | 48,970 |
| Statistics of Technical and Library Automation Units: | |
| Book Classified | 359 |
| Data Base | 1026 Vols |
| Bar-coded | 1026 Vols |

Other Activities

LibSys software engineers visited the Campus Library and rendered training to the staff on updating of LibSys S/W for better utility in August 2009. The Library provided orientation

programme to its new borrowers in the use of OPAC and introduced the library resources to them. The Library started Bibliographic Services on demand from students and research scholars to speed up the research activities in the campus.

Central Services

Computer Centre

Name of the Head : Prof. P. Shukla
Telephone : 272-3751(O)
Email : shukla@nehu.ac.in

Thrust Area

The focus of this Centre lies in providing computation facility to faculty members, research scholars and students of the University, developing and maintaining software for the University, and conducting training programmes in computer related subjects.

Brief Statement of Activities

The Centre opened its facilities to research schol-

ars and teachers/non-teachers from various departments/centres for computational work, documentation and internet browsing. It also assisted the Finance, Examination and Administration departments of NEHU in solving their computational problems. Further, it conducted the CIC, BCA and MCA courses of IGNOU during the weekends and holidays throughout the year.

Faculty Profile

Professors : Prof. P. Shukla, M.Sc.(IIT, Delhi), Ph.D.(Temple), FNASc
Associate Professors : 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)

Student Intake (Short Term Courses):

Enrolment capacity: 80

| | OBC | SC | ST | Gen | Male | Female | From Meghalaya | From Outside |
|---------------------|-----|----|-----|-----|------|--------|----------------|--------------|
| Windows & MS-Office | - | 2 | 101 | 8 | 39 | 72 | 111 | Nil |
| C-Programming | 2 | 2 | - | 9 | 6 | 7 | 13 | Nil |
| Data Analysis | 3 | - | 14 | 12 | 8 | 21 | 29 | Nil |
| HW & Networking | 1 | 2 | 44 | 3 | 33 | 17 | 50 | Nil |

Courses Conducted

Webpage Designing, C programming, C++ programming, Java Programming, MS-Windows & MS-Office, MS-Access & Visual Basic Programming, MATLAB, Data Analysis, and Hardware & Networking.

Extension Programmes

Dr. T. K. Sinha presented a paper titled "Neural Network based Text Retrieval" by Dr. T.K. Sinha and Ms. Aiom Mitri at the national conference on Recent Advances in Statistics and Computer Application (RASCA-2010), Bharathiar University, 21-23 December 2010.

Publications

Published Abroad

Shukla Prabodh, and R S Kharwanlang, Critical hysteresis in random-field XY and Heisenberg models, *Phys Rev E* 83, 011121 (2011); con-dmat arXiv:1007.4265v2.

Any Other Academic Activities

Prof. P. Shukla delivered the following Invited talks:

1. Non equilibrium phenomena in random-field models at the School of Physical Sciences, Jawaharlal Nehru University, New Delhi, on February 2, 2011.
2. Non equilibrium phenomena in random-

field models at Harish-Chandra Research Institute, Allahabad, on February 7, 2011.

3. Physics of phase transitions at Tezpur University, Tezpur on February 28, 2011.

Mr. P.P. Dey attended the 2nd *National Workshop on Indowordnet* organized by IIT, Bombay and Assam University at Hotel Pinewood, Shillong from 12/03/2010 to 14/4/2010. He also attended teaching programme as a guest in the 1st year B.Sc. Nursing Course in the College of Nursing, North East Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong during August-November 2010.

Data and Voice Network

Administrator-in-charge : Prof. R. N. Sharan
Telephone number : (0364) 272-2121
NDVN Facility numbers : 272-6195, 272-6196, 272-6197 and 255-1297
Email : admin@nehu.ac.in

Technical Officer : Mr. Ivan Lyngdoh

System Analyst : Mr. S. Nongkhlaw

The NEHU Voice and Data Network (NDVN) facility, commissioned in 2003 as VSAT Facility, continues to provide data (Internet) and voice (telephony) access in a convergence mode to all academic and administrative departments besides other facilities/buildings on the campus.

New Features of the Network

- I. The National Knowledge Network (NKN) 1 Gbps link was commissioned on 19th May 2010. This has increased the Internet speed access considerably.
- II. The Internet access, domain access (web & mail), access to IP authenticated e-

journals from UGC-Infonet E-journal consortium are now all being routed through the 1 Gbps link providing faster access and improved reliability.

- III. The Intranet and Internet access of the Digital Repository under the Library Digitalization Project of UPE is also routed through the network infrastructure of NDVN.
- IV. Limited WI-FI access is provided to each department of the University including Multi-Use Convention Centre and Guest House.

Central Services

Existing Components Providing Continual Services

Network Security

- a. Campus Antivirus, Trend Micro Office Scan, is implemented for all clients in the network.
- b. A firewall with Unified Threat Management, Cyberoam 1000i, providing gateway protection of Antivirus, Antispyware and AntiSpam is implemented in the network.

Data Network

- c. Data network, extending to all departments, centres and administrative buildings, serves over 1600 clients/connections.
- d. All servers and applications, including DNS, DHCP Web Servers, Mail Servers, Proxy Servers, Gateway filtering for Viruses and Spams, Antivirus Distribution Server, Network Monitoring software and DHCP, runs on HP Blade Chassis C7000 with 9 active Blade Servers and beside these there are other Tower servers (IBM, Compaq & Wipro) being utilized as proxy for residence, voice applications and backup.

- e. The Extreme Summit Black Diamond 8806 core switch provides connectivity, routing, VLAN access to and from all layer 2 switches in all departments.
- f. All departments are connected to the core switch with the Extreme Summit X150-24t & Extreme Summit X150-48t L2 switches with gigabit uplinks.

Voice Network

- a. A voice network, extending to all departments, centres, administrative building and some residential quarters, connects over 1500 telephone extensions.
- b. The Avaya S8730 server with G650 gateways located in NDVN, Administrative Building and Political Science Department along with G450 located in the School of Technology and Guest House provides TDM backbone and IP enabled 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.

Sophisticated Analytical Instrument Facility

Head : Professor B. B. P. Gupta
Telephone : 2721801(O), 2550212 (FAX)
Email : gupta@nehu.ac.in

Thrust Area

The Department of Science and Technology (DST) is providing facilities for sophisticated analytical instruments to researchers through its Sophisticated Analytical Instrument Facilities (SAIF) 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 Activities

The SAIF carries out analysis of samples received from the scientists/institutes, and

provides facilities of sophisticated analytical instruments to scientists and other users from academic/research institutions, R&D laboratories and industries to enable them to carry out advanced research. It also acquires and develops capability for preventive maintenance and repair of sophisticated instruments, and organizes short term training

courses/workshops on the use and application of sophisticated instruments and analytical techniques. In addition, SAIF trains technicians in maintenance and operation of sophisticated instruments as well as undertakes design and development of instruments/accessories of existing instruments.

Scientific Staff:

| | |
|------------------------|--------------------------------------------------|
| Professor | R. P. Bajpai, M. Sc. (AMU), Ph. D. (Glasgow) |
| Sr. Scientific Officer | Taposh Chakraborty, M. Sc. /Ph. D. (NEHU) |
| Scientific Officer | Sudip Dey, M. Sc./Ph. D. (NEHU) |
| | Begonia Dkhar, M. Sc. (NEHU), Ph. D. (Gauhati U) |
| | Debashish Dey, M. Sc. (NEHU), Ph. D. (RDU) |
| | P. S. Dkhar, M. Sc. (NEHU), Ph. D. (NEHU) |
| | S. K. Prasad, M. Sc. (NEHU) |
| | J. Sohtun, M. Sc. (NEHU) |

Seminars/Conferences/Symposia/Extension Programmes/ Workshops/Training

Organised

1. Workshop on “Scanning Electron Microscopy in Life Science Research” on 1st - 4th March 2011.
2. Workshop on “Basic Principles, Preparatory Methods and Biological Applications in Transmission Electron Microscopy” on 22 - 25 March 2011.

Attended

Dr. D. Dey and Dr. P. S. Dkhar attended the 11th UGC-sponsored “Orientation programme” organized by the Academic Staff College, NEHU from 13th September to 10th October 2011.

Dr. P. S. Dkhar and Mr. S. K. Prasad attended (i) Seminar on “Discovery of Measurement” organized by M/s Agilent Technologies, India at Hotel Polo Towers, Shillong on 14th March 2011 and (ii) Workshop on “Modeling of Biological Systems” from 25th to 29th October

2010, jointly organized by the ISI, Kolkata and the Department of Physics, NEHU, Shillong.

Publications

Published in India

Dey, S. and S. M. Kharbuli. 2010. Electron microscopic studies on helicoidal architecture and parabolic pattern in coloured stripes of hill-stream fish (*Devario aequipinnatus*) skin. *Trends in Biosciences (India)*, 3: 12-14.

Kar, S., S. Dey and C. R. Bhattacharjee. 2010. Effect of 2-amino-4-hydroxypteridine on induced tumor (dalton’s lymphoma) in animal model. *Assam University Journal of Science and Technology (India)*, 6: 6-9.

Chakraborty, R., S. Dey, P. S. Dkhar, C. R. Thaba and W. Rynjah. 2010. Diabetics of Northeast India are at risk of dietary zinc and manganese deficiency: possible improvement through consumption of some traditional edibles or edibles of limited popularity. *International Journal of Diabetes in Developing Countries (India)*, 30: 201-207.

Central Services

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Published Abroad

Dey, S., S. Singh and R. Chakraborty. 2011. Surface ultra structure of larval mouth part sensilla of the muga silk moth, *Antheraea assamensis*, an endemic species of North-East India. *Microscopy Research and Technique (USA)*, 74: 292-300.

Rajguru, U., S. Dey, M. Mallick and U. C. Goswami. 2011. Bleached sulphite pulp mill effluents adversely affect cellular and sub-cellular features of some fish (*Anabas testudineus*) tissues: an electron microscopical analysis. *Journal of Advanced Microscopy Research (USA)*, 6: 1-8.

Rentheil, C. Z., A. Raghu Varman, B. Kharbuli and S. Dey. 2010. Progressive chorion morphology during egg development in *Samia*

ricini (Donovan). *Microscopy Research and Technique (USA)*, 73: 234-239.

Dey, S., S. Singh, S. Dey, S. Choudhury, R. Chakraborty, R. N. K. Hooroo and D. K. Sharma. 2010. UV-reflecting wing scales in the silk moth, *Antheraea assamensis*: Its biophysical implications. *Microscopy Research and Technique (USA)*, 74: 28-35.

Funds Received

DST, Govt. of India, New Delhi: Non Plan: Rs. 690,000.00; Plan: Rs.19,20,855.00

Services Offered

Scanning and 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, and supply of liquid nitrogen to academic, research and industrial institutions.

Instrument Used

| Instrument | Total number of samples analyzed | Total number of users utilizing the facility |
|-------------------------------------------------------|----------------------------------|----------------------------------------------|
| Scanning Electron Microscope (JEOL JSM 6360) | 1414 | 80 |
| Transmission Electron Microscope (JEOL JSM 100CX) | 594 | 103 |
| Transmission Electron Microscope (JEOL JEM 2100)* | 36 | 10 |
| FT-NMR 400 MHz (BRUKER AVANCE II-400) | 2469 | 59 |
| LC-MS Spectrometer (Waters ZQ-4000) | 782 | 62 |
| Atomic Absorption Spectrometer (Perkin Elmer PE 3110) | 2162 | 29 |
| Graphite Furnace (Analytik Jena AG Vario 6) | 544 | 5 |
| CHN-OS Analyser (Perkin Elmer PE 2400) | 719 | 29 |
| Liquid Nitrogen Plant (Philips PLN 106) | 3286 lts | 22 |

*Commissioned on 23rd February 2011.

Total Revenue Earned

Rs. 13,76,820.00 (External users: Rs. 7,54,445.00; Internal users: Rs.6,22,375.00)

Research Projects

Ongoing

Endocrine Regulation of Reproduction and

Enhancement of Facundity in the Muga Silkworm *Antheraea assamensis* Helfer. PI: Dr. C. Z. Renthelei, Central Muga & Eri Research & Training Center, Jorhat, Assam; Co-investigator: Dr. Sudip Dey SAIF, NEHU, Shillong. DST, New Delhi.

Students' Welfare

Name of the Dean : Prof. R. N. Sharan
Telephone : (0364)272 1181/1182(O), 09436104164(M)
Email : dsw@nehu.ac.in.

The office of the Dean, Students' Welfare continued to serve as the nodal agency for student services and their welfare during the year under report. The major concerns of the office have been the management of the Halls of Residences of the postgraduate, undergraduate and research students, generating and issuing of computerized identity cards for all students, organizing academic

study tours through departments, co-ordination of students' sports and cultural activities, conduct of elections to the Students Union, award of the PhD/MPhil/Non-Net fellowships and postgraduate 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

The number of students who were given hostel accommodation during the year 2010-2011 is as follows:

| | | ST | SC | GEN | OBC | Total |
|--------------|-------|------------|-----------|------------|------------|-------------|
| R. S. | Men | 98 | 3 | 83 | 7 | 191 |
| | Women | 141 | 1 | 144 | 30 | 316 |
| P. G. | Men | 258 | 25 | 55 | 17 | 355 |
| | Women | 223 | 1 | 45 | 6 | 275 |
| U. G. | Men | 60 | 40 | 42 | 95 | 237 |
| | Women | 98 | 14 | 55 | 25 | 192 |
| TOTAL | | 878 | 84 | 424 | 180 | 1566 |

Study Tour

The office coordinated the study tours of the following seven academic departments from Shillong Campus: (I) Anthropology, (II) Biotechnology & Bioinformatics, (III) Botany, (IV) Environmental Studies, (V) Geography, (VI) Library and Information Science, and (VII) Linguistics.

Sports Activities

The Romengo Murry Memorial Inter-Hostel Tournament was conducted during the year 2010-2011.

The DSW office supported the conduct of the following additional students' activities:

The elections to the executive committee of the Students' Union were held on 10th December 2010. The DSW office supported the annual event of NEHUSU to showcase talents of students of the University. During 2010-11 the Varsity Week was held from 19th March to 23rd April 2010 and the same concluded with a week of celebrations from 19th April 2010.

Scholarships/Aid Fund

During 2010-11, 50 NEHU Postgraduate Scholarships were awarded @Rs. 3000 /- per student.

Fellowships to MPhil/PhD Students

During 2010-11, 238 Research Scholars were

Central Services

selected for the award of the UGC Non-NET fellowship. Each PhD scholar was awarded Rs. 5000/- per month while Rs. 3000/- per month was awarded to MPhil scholars.

Grant to Outstanding Students

31 postgraduate toppers from all departments including Tura Campus were awarded cash amount of Rs. 4,500/- per student.

University Science Instrumentation Centre

Name of the Head : Prof. P. V. Koparkar
Telephone : 2721161 (O)
Email : chimanee@sancharnet.in

Thrust Area

The thrust area of the Centre is instrumentation and its allied fields. At present Sophisticated Seismic Instrumentation and radiation detection related instrumentation is in progress.

Seminars/Conferences/Symposia/Workshops Attended

Prof. (Mrs.) P. V. Koparkar attended: (i) a training programme for women scientists on “Carbon Mitigation and Climate Change” organized by DST, Govt. of India, held at Indian Council of Forestry Research and Education, Dehradun, from 4 to 8 October 2010, (ii) national workshop on “Modelling Biological Systems” jointly

organized by Physics and Mathematics Unit of Indian Statistical Institute, Kolkata and Department of Physics, NEHU, Shillong, held at NEHU, Shillong, from 25 to 29 October 2010, (iii) “Hands-on Training Programme on MEMS” under National Programme on Micro and Smart Systems (Fabrication of Prototypes of MEMS Poly-Silicon Piezo-Resistive Pressure Sensors), CEERI Pilani (CSIR, New Delhi), held at Pilani, Rajasthan from 17 to 28 January 2011, (iv) national seminar on “Maintenance of Teaching Standards in Higher Education: Issues, Problems and Reforms”, held at NEHU, Shillong, from 25 to 26 March 2011, jointly organized by ICSSR-NERC and NEHU Teachers Association (NEHUTA).

Chapter XI

MISCELLANEOUS CELLS/UNITS

Counseling & Placement Cell

Coordinator : Professor S. Choudhury
Telephone : (0364) 272-3601(Direct)(0364)272-3604 (PA/Steno)
Email : placement@nehu.ac.in

The Counseling & Placement Cell was established on 1 April 2008. The Cell endeavors to provide the very best opportunities to NEHU graduates in terms of counseling & guidance, campus placements, etc. From time to time the cell publicizes matters relating to students' career/ job opportunity if any such information from any quarter is forwarded to the Cell.

Brief Statement of Activities

The Cell carried out the following activities during the year under report:

1. Campus Placement Camp was conducted by Reliance Industries Ltd for the students of Economics, Commerce, Statistics, Mathematics, Physics and Chemistry on 1st and 4th June 2010 in Science Lecture Hall, NEHU, Shillong. A total of 32 students took the written test out of which 20 students were shortlisted for the interview.
2. Bohniman System Ltd., a company based in Guwahati, conducted a campus interview for the students of School of Technology, NEHU, Shillong on 24th July 2010. A total of 47 students appeared for the interview.
3. A seminar for all the students of NEHU was organized by AIESEC (Association International des Etudiants en Sciences Economiques et Commerciales) on 12th November 2010 in the School of Technology, NEHU, Shillong. The AIESEC is a youth run independent education foundation that has its associations with various organizations in a number of countries. A total of 23 students attended the seminar.
4. Accenture, Guwahati held a pool campus for the students of School of Technology in Guwahati on 19th and 20th of December 2010. A total of 66 students appeared out of which 6 students were selected as Asstt. Software Engineers.
5. Zaloni, an IT firm from Guwahati, conducted a campus interview for the final year students of School of Technology on 20th and 21st of April 2011 in NEHU campus. A total of 75 students appeared for the interview out of which 2 students got selected for the training.
6. Aspiring Minds, a vendor company that conducts the selection tests for HCL, Erickson and other companies, conducted AMCAT (Aspiring Minds Computer Adaptive Test) for the students of School

Miscellaneous Cells/Units

of Technology on the 2nd of March 2011 charging a nominal fee of Rs 400/- per student.

7. A three-day workshop on “Development of Industry Oriented Skills” was organized

on 11, 12 and 14th of April 2011. During this workshop eminent speakers from NetTech, Infosys, ISI Kolkata enriched our students with knowledge about industry oriented skills.

Equal Opportunity Cell

Name of the Coordinator : Professor T. B. Subba
Telephone : 2723101 (O), Mobile: 9436102150
Email : tbsubba@nehu.ac.in

During the year under report, the Coordinator purchased some furniture through the P&S Section of the University and 31 books on disability directly

from the vendors with the fund available under “Merged Schemes” after due approval of the Advisory Committee constituted for the Cell.

Hindi Cell

Officer-in-Charge : Dr. Jay Narayan Nayak
Telephone : 2721053
Email : jnnayak@nehu.ac.in

The overall supervision of proper implementation of Rajbhasha Policy is done by an Official Language Implementation Committee of the University. To promote the progressive use of Hindi in the University a Hindi Cell has been established.

A Departmental Official Language Implementation Committee is constituted with the Vice-Chancellor as the Chairman, the Registrar, Controller of Examinations, Finance Officer, University Librarian, Head, Department of Hindi and all Deputy Registrars along with two members from the Shillong Town Official Language Implementation Committee as members.

During 2010-2011 the Director of Rajbhasha,

Government of India, Ministry of Human Resource Development, New Delhi visited the University in August 2010 to review the implementation of Rajbhasha Policy of the Union Government. The performance of implementation by the University was found satisfactory.

On October 29, 2010 the Hon’ble Committee of Parliament on Official Language under the Chairmanship Mr. Satyavrat Chaturvedi, Hon’ble Member of Lok Sabha inspected the progressive use of Hindi in the University. The inspection was held in the presence of Prof. Amar Nath Rai, Vice-Chancellor, Mr. Lambha Roy, Registrar, Dr. Jay Narayan Nayak, Officer-in-

Charge, Hindi Cell, Mrs. Manju Singh, Joint Secretary, Mr. Naresh Kumar, Director and Mr. K. C. Nautiyal, Assistant Director, Rajbhasha.

The Hindi Fortnight was observed w.e.f. 14th September in both Shillong and Tura campuses of the University. Hindi competitions were conducted for the Non-Hindi speaking and

Hindi speaking employees. The winners of the competitions were awarded cash prizes and certificates.

The Hindi Cell is continuing its endeavour to create a healthy atmosphere for successful implementation of Rajbhasha Policy in the University.

Internal Quality Assurance Cell

Coordinator : Prof. B.K. Tiwari – up to November 16, 2010
Prof. S.K. Mishra – since November 16, 2010

The University Grants Commission has (in the XI Plan) made a policy decision that all higher educational institutions may establish Internal Quality Assurance Cell (IQAC) to maintain the momentum of quality consciousness. IQAC is conceived as a mechanism to build and ensure a quality culture at the institutional level. The IQAC is meant for planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the institution. Accordingly, the IQAC, NEHU was established. It aims at systematization of the efforts and measures of the University towards academic excellence.

The following are the functions performed by the IQAC, NEHU during 2010-11:

1. Letters of request were written to different departments to provide information regarding the Impact Factor and Citation Index of their research publications.

2. Letters of request were written to different departments to provide information for compilation and preparation of AQR.
3. The Quality Advisory Committee was reconstituted.
4. Web-site of IQAC was designed and hosted at <http://www.nehu.ac.in/iqac/>
5. Draft Proforma for collecting feedback from the stakeholders (faculty, supporting staff, students, alumni, parents, superannuated teachers) in the University were prepared and hosted on the IQAC website. The proforma has been designed to enhance the coordination of functions of the IQAC with the stakeholders in the University. This step was taken in view of the comments made in the Report of the Peer Team on Institutional Re-accreditation of NEHU, dated 3.8.2010.

National Service Scheme

Programme Coordinator : Dr. Jemino Mawthoh
Telephone : 2721151, 2721152, and 2721153
Email : nss.nehu@gmail.com

The National Service Scheme (NSS) of the Government of India envisages to utilize the free time of Higher Secondary School/Colleges/University students for socially productive works. An important feature of the NSS is that its programmes are organized by the student volunteers themselves, under the guidance of their teachers as Programme Officers. The work undertaken by the college units are divided into Regular Activities and Special Camping. The total enrolment strength of volunteers for the year 2010 – 2011 was 18, 738 (Male – 7933, Female – 10,805) comprising volunteers from 36 colleges, 17 Higher Secondary Schools, 2 P. G. units and 1 Medical Institute. The number of NSS Programme Officers was 88.

Republic Day Parade Camp

Republic Day Parade Camp: 2 NSS volunteers, Ms. Nasima B. Choudhury and Mr. Shining Star Kharbuli of Shillong College, Shillong attended the Republic Day Parade Camp at New Delhi from 1st – 31st January, 2011.

Youth Exchange Programme

Ms. Davida Paswett, NSS Volunteer of St. Anthony's College, Shillong was nominated by the Ministry of Youth Affairs & Sports, GOI as a member of the Indian Youth Delegation to China from 14th to 28th June, 2010.

Inter State Youth Exchange Programmes

10 NSS volunteers of Synod College along with the Programme Officer participated at the Inter State Youth Exchange and Home Stay

Programme held at Sriperempudur and Tanjore from 5th to 14th August 2010.

XVI National Youth Festival

The XVI National Youth Festival was held at Udaipur, Rajasthan from 12th to 16th January 2011. Ten (10) NSS volunteers from different colleges along with 1 Programme Officer attended the programme.

Adventure Programme

20 NSS volunteers St. Edmund's College, Shillong, Tura Government College, Tura and Durama College, Tura along with 2 Programme Officers participated in the Adventure Programme held at Patnitop (Jammu & Kashmir) from 2nd to 11th July 2010.

Special Camps

During the year 16 Special Camps were conducted under the theme "Healthy Youth for Healthy India".

Training/Workshops

1. NSS Review Meeting of Programme Officers was held at Lady Keane College, Shillong on 28th June 2010. About 25 NSS Programme Officers from different colleges attended.
2. 8 NSS Programme Officers of different colleges attended a workshop on Environment and Sustainable Development at NEHU New Guest House from 14th to 28th June 2010.
3. International Day Against Drug Abuse & Illicit Trafficking was organized on 26th June 2010.

Creation of Community Assets

NSS units have also constructed community assets with the labour of volunteers at the respective adopted villages during the course of the special camping programme.

NSS Day

The 41st NSS Foundation Day was celebrated on 24th September 2010. The Hon'ble Union Minister of State for Water Resources, Shri Vincent Pala graced the occasion as Chief Guest in the presence of the Pro-Vice-Chancellor of NEHU, Prof. Lalthantluanga and Registrar, NEHU, Shri L. Roy.

Other Activities

1. The NSS units organized tree plantations programme at their respective college campuses and adopted villages on the occasion of World Environment Day, 5th June. Approx 1200 saplings were planted on that day.
2. A massive Tree Plantation drive was also organized by the NSS unit of Tura Government College in collaboration with government and non-governmental agencies on the occasion of *Van Mahotsav* during July at Tura.
3. The NSS units of various colleges also conducted several programmes in observance of International Youth Day on 12th August, 2010.
4. The NSS unit of Sngap Syiem College, Mawkyrwat organized a Free Eye Camp at Mawsaw Government UP School, Mawsaw in collaboration with Bethany Society and Bawri Netralaya, Shillong on 10th September 2011. More than 300 people from nearby villages benefitted from the camp.
5. Ms. Palvydora Kharkongor NSS volunteer of Shillong College, Shillong was conferred the Indira Gandhi National NSS Award on 24th September 2010 at New Delhi.
6. Mr. Bhakupar Lyngdoh, NSS volunteer of BBS College, Shillong was nominated by the Ministry of Youth Affairs and Sports, Govt. of India to attend the SAARC Youth Workshop for Promoting Regional Harmony at Islamabad from September 27th – 29th 2010.
7. NSS unit of Sngap Syiem College, Mawkyrwat conducted an "Awareness Programme on Employment Generation" for local youth in the community on 13th October 2010 at the college campus in collaboration with District Commerce Industry Centre.
8. The NSS unit of Mawlai Presbyterian College in observance of Communal Harmony week organized a lecture on the topic "Communal Harmony" at the college campus on 19th November 2010. The unit also organized a Poster writing competition on the topic "Unity in Diversity" on the 24th November 2010.
9. The NSS units of various colleges in collaboration with Meghalaya AIDS Control Society organized several programmes in observance of World AIDS Days on 1st December 2010.
10. The NSS unit of Sankardev College, Shillong in collaboration with the SCSTE organized a 3 day Technology & Demonstration camp at Lumkyntung Village of Laitkroh Elaka, East Khasi Hills from 27th to 29th January 2011.

Publication Unit

In-Charge : Prof. T.B. Subba
Telephone : 2226316(O)
Email : tbsubba@nehu.ac.in

The NEHU Publication Unit 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 the University and some undergraduate textbooks, supplementary reading materials, reference books, research works particularly those relating to Northeast India, Endowment Lecturers delivered in the University and official publications like the University Calendar, Acts and Status, Ordinances, the Annual Report, NEHU News (quarterly) and The NEHU Journal (biannually). Apart from these, NEHU Publication Unit is also functioning as the official printer of the University with the printing press attached to it.

At present, the Unit has been undertaking almost all printing jobs assigned to it by various departments and centres of the University. The Unit has acquired a double colour demy offset-printing machine and will acquire other printing equipments as part of its endeavour to modernize the press. On the distribution front, it is entering into contracts with some major

distributors and book sellers in and around the state and Assam.

The printing and publication of the following works were undertaken during the period 2010-2011:

Printing of items relating to Examinations, NEHU

Printing of items relating to Printing & Stationery, NEHU

Printing of BA Syllabus (History section)

Printing of CBCS Handbook

Printing of 24X7 Anti-Ragging Helpline booklets (bilingual)

Printing of Annual Accounts of Finance Department

Printing of brochure relating to OMCOS-2011, relating to Department of Chemistry

Printing of booklets relating to the Centre of Distance Education, NEHU

Layout, cover design of the thirty-sixth Annual Report (2009-2010)

Printing of The NEHU Journal, Vol. VII No.2, July 2010.

SC/ST Cell

Officer-in-Charge : Dr. J.N. Nayak
Telephone : 2721053(O)
Email : jnnayak@nehu.ac.in

Brief Statement of Activities

The University set up a special cell known as the SC/ST Cell in 1983 to look after the welfare of the Scheduled Castes and Scheduled Tribes of the University. Recently, the University has renamed the SC/ST Cell as Equal Opportunity Cell in line with the terminology approved by the UGC.

The Cell deals with all matters pertaining to the implementation of the Government of India

Orders, the UGC Guidelines and other instructions issued from time to time on the subject of reservation, etc. in coordination with Establishment-I & II Sections and the Office of the Dean of Students' Welfare of the University. As per information collected by the Cell from the concerned Sections, the present position of SCs/STs at teaching and non-teaching levels and admission to various courses/degrees as on 01.01.2001, is as under:

(A) Teaching Staff

| Sl.No. | Name of the post | Total Post | | In Position out of Total Filled | | | | | | |
|--------|------------------|------------|--------|---------------------------------|-----|----|----|-----|-------|--------|
| | | Sanctioned | Filled | Gen. | OBC | SC | ST | PWD | Total | Vacant |
| 1. | Lecturer | 186 | 145 | 125 | 3 | 4 | 13 | Nil | 145 | 41 |
| 2. | Reader | 133 | 96 | 90 | - | 1 | 5 | - | 96 | 37 |
| 3. | Professor | 87 | 60 | 58 | - | 1 | 1 | - | 60 | 27 |

(B) Non-Teaching Staff

| Sl.No. | Name of the post | Total Post | | In Position out of Total Filled | | | | | | |
|--------|------------------|------------|--------|---------------------------------|-----|----|-----|-----|-------|--------|
| | | Sanctioned | Filled | Gen. | OBC | SC | ST | PWD | Total | Vacant |
| 1. | Group-A | 68 | 59 | 59 | - | - | - | - | 59 | 9 |
| 2. | Group-B | 183 | 150 | 57 | - | 1 | 92 | - | 150 | 33 |
| 3. | Group-C | 456 | 359 | 109 | - | 2 | 248 | - | 359 | 97 |
| 4. | Group-D | 318 | 241 | 79 | - | - | 162 | - | 241 | 77 |

(C) Admission to Various Courses/Degrees

| Sl.No. | Course/Degree | Total Seats | | In Position out of Total Filled | | | | | | |
|--------|---------------|---------------------|--------|---------------------------------|-----|----|-----|-----|-------|--------|
| | | Sanctioned/Approved | Filled | Gen. | OBC | SC | ST | PWD | Total | Vacant |
| 1. | UG | 180 | 175 | 54 | 12 | 15 | 94 | - | 175 | 5 |
| 2. | PG | 934 | 934 | 73 | 8 | 6 | 847 | - | 934 | - |
| 3. | M.Phil | Variable | 15 | 2 | 1 | - | 12 | - | 15 | - |
| 4. | Ph.D. | Variable | 149 | 47 | 14 | 5 | 83 | - | 149 | - |
| 5. | Others | Variable | 58 | 3 | - | - | 55 | - | 58 | - |

Sports Department

Teacher-in-Charge : Prof. B. Kharbuli

During the year 2010-11 the Sports Department worked closely in collaboration with the North-Eastern Hill University Students' Union, the wardens of various hostels and Campus Welfare Committee of residents on campus. The Indoor Stadium is used by all students. Three badminton courts and two table tennis tables are installed during the year. The same were made available for the Community Hall, where many campus residents and their family members spend some of their time to exercise and relax. The 24 point gym station located now at the University Clinic basement was added with some more stations for women.

Other Sports Activities

1. Adventure Trekking in the name of "Green Trek 2010" from NEHU Campus to Mawtawar to Umroi and then to Umrynjah Ri Bhoi District was conducted on 11.9.2010 under the auspices of Sports Department and NEHUSU where 360 PG and UG students participated. The trek

was flagged off by the Dean, Students' Welfare, Prof. R.N. Sharan at 9.00 am from the Central Library point.

2. A four-day Scuba Diving Camp entitled "Discover Scuba" was conducted at Shnongpdeng, Elaka Dawki under Jaintia Hills District on 24-27th March 2011 where more than 500 PG and UG students participated. The event was flagged off by the Pro-Vice Chancellor, Shillong Campus Prof. D.R. Syiemlieh from the Central Library point at 10.00 am. The student participants stayed in Shnongpdeng village and shared their time with the village youths.
3. The department was involved in assisting various Sports and Field events conducted by NEHU Students' Union especially the Varsity Fest 2011 which was held from 1st March to 7th May 2011. The Vice-Chancellor, Prof. A.N. Rai was the Chief Guest in the closing ceremony of this festival.

Women's Cell

Name of Chairperson : Prof S.M. Sungoh
Telephone : (O) 0364-2721071/2723347/(M) 93436307570
Email : smsungoh@yahoo.com

Activities during 2010-11

1. Provided Counseling to three members of the University fraternity.
2. Conducted a one-day seminar on "Legal Right for Women" at NEHU, Shillong on 18 March 2011.

3. The chairperson visited the following places as a part of the "Legal Awareness Programmes for Women": Thomas Jones College in Jaintia Hills, 5 March 2011, Sngap Singh College, Mawkyrwat on 22 March 2011, Community Hall, Nongpoh, 30 March 2011.

MEMBERS OF THE UNIVERSITY COURT

Chancellor, Ex-Officio

Prof. M.G.K. Menon,
C-178, Sarvodaya Enclave,
New Delhi – 110 017
Ph.No: 01126966096 (O)/01126511454 (R)
Fax No: 91-11-26510825/ e-mail: mglmemon@nic.in

Vice-Chancellor, Ex-Officio

Prof. Pramod Tandon
Prof. A. N. Rai (w.e.f. FN 11.10.2010)

Pro-Vice-Chancellor (Shillong Campus), Ex-Officio

Prof. R.Lalthantluanga
Prof. D. R. Syiemlieh (w.e.f. AN 19.11.2010)

Pro-Vice-Chancellor (Tura Campus), Ex-Officio

Prof. S.S.Khare
Prof. E. D. Thomas (w.e.f. AN 02.12.2010)

Dean, Students Welfare, Ex-Officio

Prof. R.N. Sharan

Registrar, Ex-Officio

Mr. Lambha Roy

Librarian, Ex-Officio

Mrs. I. Majaw

Proctor, Ex-Officio

Dr. H.Kayang

Finance Officer, Ex-Officio

Mr. Taliremba

Deans of School, Ex-Officio

Prof. J. War
School of Humanities

Prof. P. K. Gupta
School of Education

Prof. B. K. Sharma
School of Life Sciences

Prof. H. K. Mukerjee
School of Physical Sciences

Prof. L. S. Gassah
School of Social Sciences

Prof. P. K. Nayak
School of Economics, Management & Information Sciences

Prof. B. S. Mipun
School of Human and Environmental Sciences

Prof. S. Choudhury
School of Information and Technology

Members of the University Court

All Professors, Ex-Officio Members

Department of Political Science

1. Prof. A. K. Baruah
2. Prof. (Mrs) Rupa Borgohain
3. Prof. L. S. Gassah
4. Prof. B. J. Deb

Department of Sociology

1. Prof. N. Kumar
2. Prof. C.L. Imchen

Department of History

1. Prof. D. R. Syiemlieh
2. Prof. (Mrs) M. Momin
3. Prof. (Mrs) M. Sharma
4. Prof. F. A. Qadri

Department of Economics

1. Prof. S.K. Mishra
2. Prof. Eugene D. Thomas
3. Prof. N. Srivastav
4. Prof. P. Nayak
5. Prof. B. Mishra

Department of Commerce

1. Prof. N.M. Panda

Centre for Science Education

1. Prof. M.M. Singh
2. Prof. D. Bhattacharjee
3. Prof. M.S. Bisht

Department of Environmental Studies

1. Prof. B.K. Tiwari
2. Prof. L.K. Jha
3. Prof. O.P. Singh

Department of Biochemistry

1. Prof. A. N. Rai (on lien as VC-NEHU)
2. Prof. R. Lalthantluanga
3. Prof. Ramesh Sharma
4. Prof. R. N. Sharan
5. Prof. Anis Alam

Department of Botany

1. Prof. P. Tandon

2. Prof. A. K. Misra
3. Prof. N. K. Chrungoo
4. Prof. R.C. Laloo
5. Prof. (Ms) M.S. Dkhar
6. Prof. N. Venugopal
7. Prof. S.K. Barik
8. Prof. U. Shankar

Department of Zoology

1. Prof. (Mrs) V. Tandon
2. Prof. B.K. Sharma
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
8. Prof. S.N. Ramanujam

Department of Anthropology

1. Prof. T.B. Subba
2. Prof. Henry Lamin
3. Prof. R. Khongsdier

Department of Geography

1. Prof. A.C. Mohapatra
2. Prof. Surendra Singh
3. Prof. B.S. Mipun
4. Prof. D. K. Nayak
5. Prof. Z.H. Qureshi

Department of Chemistry

1. Prof. K. Ismail
2. Prof. R.K. Poddar
3. Prof. R. H. D. Lyngdoh
4. Prof. B. Myrboh
5. Prof. R. A. Lal
6. Prof. K.M. Rao

Department of Mathematics

1. Prof. S.S. Khare
2. Prof. M. B. Rege
3. Prof. H. K. Mukerjee

Department of Physics

1. Prof. P. Shukla
2. Prof. P.N. Pandita
3. Prof. Y. S. Jain
4. Prof. B.M. Jyrwa
5. Prof. Satish Kumar
6. Prof. P. Nongkynrih

Department of English

1. Prof. (Mrs) T. Ao
2. Prof. (Mrs) E. Syiem

Department of Biotechnology & Bioinformatics

1. Prof. A. Chatterjee
2. Prof. S.R. Rao
3. Prof. K. Aguan

Department of Khasi

1. Prof. (Ms) B. War
2. Prof. M.B. Jyrwa
3. Prof. S. Dkhar
4. Prof. A. Kharmalki

Department of Linguistics

1. Prof. (Ms) J. War

Department of Philosophy

1. Prof. C. R. Agera
2. Prof. Jagat Pal
3. Prof. B.K. Agarwala
4. Prof. Vanlalnghak

Department of Education

1. Prof. (Ms) A. Henia
2. Prof. P.K. Gupta
3. Prof. R.S. Wangu
4. Prof. (Mrs) S.M. Sungoh

Department of Basic Sciences & Social Sciences

1. Prof. (Mrs) P.V. Koparkar (adjunct)

Department of Cultural and Creative Studies

1. Prof. D.L. Kharmawphlang
2. Prof. P. Jhingan

Department of English (Tura)

1. Prof. S. Gurudev

Department of Rural Development & Agricultural Production (Tura)

1. Prof. S.C. Srivastava

Department of Business Management (Tura)

1. Prof. Gandu Singaiah

Department of Statistics

1. Prof. G. Das
2. Prof. S.M. Bendre

Department of Adult and Continuing Education

1. Prof. E. Jyrwa

Sophisticated Analytical Instrument Facility

1. Prof. R.P. Bajpai

Heads of Department who are not Professors, Ex-Officio

1. Head, Department of Commerce, NEHU, Shillong.
2. Head, Department of English, NEHU, Tura Campus, Tura.
3. Head, Department of Statistics, NEHU, Shillong.
4. Head, Department of Law, NEHU, Shillong.
5. Head, Department of Education, NEHU, Tura Campus, Tura.
6. Head, Department of Hindi, NEHU, Shillong.
7. Head, Department of Electronics & Communication Engineering, NEHU, Shillong.
8. Head, Department of Information Technology, NEHU, Shillong.
9. Head, Department of Library & Information Science, NEHU, Shillong.

Members of the University Court

10. Head, Department of Garo, Tura Campus, Tura.
11. Head, Department of Basic Sciences & Social Sciences, NEHU, Shillong.
12. Head, Department of English, NEHU, Shillong.
13. Head, Department of Adult & Continuing Education, NEHU, Shillong.
14. Head, Department of Cultural & Creative Studies, NEHU, Shillong.
15. Head, Department of Environmental Studies, NEHU, Shillong.
16. Head, Department of Management, NEHU, Tura Campus, Tura.
2. Principal, St. Dominic College, Shillong.
3. Principal, Shillong Engineering & Management College, Shillong.
4. Principal, Wiliamnagar College, Wiliamnagar.
5. Principal, Christian Academy College, Shillong.
6. Principal, Mawlai Presbyterian College, Shillong.
7. Principal, K.L. Bajoria College, Shillong.

Two Associate Professors who are not Heads of Department and two Assistant Professors appointed by rotation in the manner prescribed in Ordinances

Associate Professors

1. Dr. M.K.Das,
Department of Statistics, NEHU, Shillong.
2. Dr. L.R.Saha,
Department of RDAP Tura Campus, Tura.

Assistant Professors

1. Shri. N. Parthasarathy
Lecturer, Department of Philosophy,
NEHU, Shillong.
2. Dr. S.N. Sharma,
Centre for Distance Education, NEHU,
Shillong.

Seven Principals of Colleges in the State of Meghalaya

1. Principal, Bormanik College, Shillong.

Four teachers from affiliated colleges of the State of Meghalaya

1. Ms. Devaleena Bhattacharjee
Sl. Grade Lecturer, Lady Keane College,
Shillong.
2. Smti. R. Merika Nongtdu
Head, History Department, Jaintia Eastern
College, Jaintia Hills District.
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 nominated by the Speaker and two Rajya Sabha members nominated by the Chairman of Rajya Sabha

LOKSABHA

1. Shri Gurudas Dasgupta
15 Canning Lane, New Delhi – 110 001
or
78, Chelta Road, Kolkata – 700 027
2. Shri Ramen Deka
158 South Avenue, New Delhi – 110 011

NEHU Annual Report 2010-2011

3. Smti. Ranee Narah
M-16, South Extension, Part-II, New Delhi
– 110 049
4. Shri Sushil Kumar Singh
27, Old Court Hostel, New Delhi
or
“Singh Kjothi”, Old GT Road
Aurangabad – 824 101
7. Sh. Satish Chander Gupta
Chairman & Managing Director, United
Bank of India, Kolkata.
8. Prof. P. Balaram, Director, Indian Institute
of Science, Bangalore.
9. Dr. Mangala Rai
Director General, Indian Council of
Agricultural Research, New Delhi.

RAJYA SABHA

1. Shri Rishang Keishing
Mantri Pukhri, Imphal Manipur, or
12, Talkatora Road , New Delhi-110001.
2. Shri Matilal Sarkar
Village Milan Sangha, P.O. A.D. Nagar,
Agartala, Tripura or Flat No.107 & 504,
V.P. House, Rafi Marg, New Delhi-110001.
10. Dr. A. Mohandas,
Professor Emeritus, School of
Environmental Studies, Cochin University
of Science & Technology, Kochi.

Four Students nominated by the Vice-Chancellor

Vacant

Ten members representing learned professions and special interests nominated by the Visitor

1. Prof. T.P. Singh
Ex Dean, Faculty of Law, Barkatullah
University, Bhopal.
2. Prof. L.K. Maheshwari
Vice-Chancellor, BITS & Director of BITS,
Pilani Campus, Pilani.
3. Dr. Biswajit Dhar
Professor & Head of the Centre, Indian
Institute of Foreign Trade, New Delhi.
4. Shri Dileep Padgaonkar
Ex-Managing Editor, *Times of India*.
5. Prof. G.C. Khilnani
Professor of Medicine, All India Institute
of Medical Sciences, New Delhi.
6. Professor S. Parasuraman
Director, Tata Institute of Social Sciences,
Mumbai.
1. Prof. R.S. Dubey
Former Vice-Chancellor, Guru Ghasi Das
University, Bilaspur.
2. Prof. Anil K. Singh
Professor, Indian Institute of Technology,
Mumbai.
3. Prof. G Padmanabhan
Department of Biochemistry, Indian
Institute of Science, Bangalore – 560 012.
4. Prof. R.N.K. Bamezai
Professor, School of Life Sciences,
Jawaharlal Nehru University, New Delhi.
5. Prof. A.N. Rai
Vice-Chancellor, Mizoram University,
Aizawl.

Members of the University Court

Two persons nominated by the Chancellor

1. Prof. Amit Ghosh
Emeritus Scientist, ICMR National Institute
of Cholera and Enteric Diseases, P-33, CIT
Scheme XM, Beliaghata, Kolkata -700010.
2. Mrs. Manju Sharma B9/
6476 [FF], Vasant Kunj,
New Delhi 110 070.

Not more than two persons nominated by the Chief Rector

1. Shri I.K. Sangma
Retd. Secretary of MBOSE, Meghalaya
C/o, Tetengol, Tura.
2. Smti. M. Marwein
Retd. Joint Director, HTE, Meghalaya
C/o, Jaiawlangsnig, Shillong-793002.

Two members of the 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 Government

1. Shri W. Khylllep, MCS
Director, Higher & Technical Education,
Department of Education, Shillong.

2. Shri. J.D. Sangma
Director, Elementary & Mass Education,
Shillong.

Members of the Executive Council who are not otherwise members of the Court

1. Director of Higher and Technical
Education, Government of Meghalaya,
Shillong.
2. Principal, Seng Khasi College, Shillong.
3. Principal, Tura Law College, Tura
4. Prof. L.K. Maheshwari,
Vice-Chancellor BITS & Director of BITS
Pilani Campus, Pilani -333031.
5. Prof. G.C. Khilnani
Professor of Medicine, All India Institute
of Medical Sciences, New Delhi -110029.
6. Dr. D.K. Singh
Professor of French, Banaras Hindu
University, Varanasi-221005.
7. Dr. Mohandas A.
Professor Emeritus, School of
Environmental Studies, Cochin University
of Science & Technology, Cochin - 22.
8. Prof. S.S. Singh
Director, National Law Institute University,
Bhopal – 462044, Madhya Pradesh.
9. Prof. Virginius Xaxa
Professor of Sociology, University of
Delhi, Delhi - 110007.

MEMBERS OF THE EXECUTIVE COUNCIL

1. Prof. A.N. Rai - Chairman
Vice-Chancellor, NEHU.
Fax No: 03642550076
Ph.No: 2721001/2721002/2550074(R)
e-mail: vcnehu@nehu.ac.in
2. Prof. D.R. Syiemlieh, - Ex-officio-Member
Pro-Vice-Chancellor, NEHU, Shillong.
3. Prof. E.D. Thomas, - Ex-officio-Member
Pro-Vice-Chancellor
NEHU, Tura Campus, Tura.
4. Prof. P. Nayak, - Member
Dean,
School of Economics, Management &
Information Sciences, NEHU, Shillong.
5. Prof. B.S. Mipun, - Member
Dean,
School of Human & Environmental Sciences,
NEHU, Shillong.
6. Prof. J. War, - Member
Dean,
School of Humanities, NEHU, Shillong.
7. Prof. B.K. Sharma, - Member
Dean,
School of Life Sciences, NEHU, Shillong.
8. Prof. R.P. Bajpai, - Member
Sophisticated Analytical
Instrument Facility, NEHU, Shillong.
9. Dr. M.K. Das, - Member
Department of Statistics, NEHU, Shillong.
10. Principal, - Member
Raid Laban College, Shillong.

Members of Executive Council

- | | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------|
| 11. | Principal, Tura Law College, Tura | - | Member |
| 12. | Director, Higher & Technical Education, Govt. of Meghalaya, Shillong. Fax No: 22286015 Ph: 2226015 (M) 9863028845. e-mail: dhtemeghalaya@yahoo.com | - | Member |
| 13. | Prof. L.K. Maheshwari, Professor Emeritus & Advisor to Chancellor, (Former Vice-Chancellor-BITS-Pilani) Res: 335/S-12, Chandra Apartments, Moti Nagar, Tikona Park, Lucknow-226004 Ph:0522-2693822/Cell:9695257152 Email: imaheshwari@gmail.com | - | Visitor's Nominee |
| 14. | Prof. G.C. Khilnani, Professor of Medicine, All India Institute of Medical Sciences New Delhi – 110029 Ph.No: (O) 91-11-26593488 (R) 91-11-26864045, 41829176 FAX-91-11-26588663, 26593488 email: gckhil@hotmail.com | - | Visitor's Nominee |
| 15. | Dr. D.K. Singh, Professor of French, Banaras Hindu University Varanasi-221005 Tel. No: 0542-2369092/09336935545(M) E.Mail: dksingh15@rediffmail.com | - | Visitor's Nominee |
| 16. | Dr. Mohandas A. Professor Emeritus, NCAAH Cochin University of Science & Technology Fine Arts Avenue, PB No.2341, Cochin-682016, Kerala, India Tel. No.91-484-2381120/919447957277(M) E.mail: mohandas@cusat.ac.in modas@rediffmail.com | - | Visitor's Nominee |

NEHU Annual Report 2010-2011

- | | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
| 17. | Prof. S.S. Singh Director National Law Institute University Bhopal – 462044 Madhya Pradesh(India) Ph.NO: (0755)-2696965 FAX: (0755)-2696972 E-mail: Info@nlin.com Web:www.nlin.com | - | Visitor's Nominee |
| 18. | Prof. Virginius Xaxa Professor of Sociology University of Delhi Delhi - 110007 E.mail: virg1978@gmail.com | - | Visitor's Nominee |
| 19. | Finance Officer, NEHU, Shillong. Ph. No: 2721021/2721020 Fax No: 03642551153 | - | Permanent Invitee |
| 20. | Registrar NEHU, Shillong. Ph. No: 2721011/2721012/(R) 2551909 Fax No: 03642551634 | - | Non-Member-Secretary |

MEMBERS OF THE ACADEMIC COUNCIL

Ex-Officio Members

- (i) Vice-Chancellor
- (ii) Pro-Vice-Chancellor
- (iii) Deans of Schools
- (iv) Dean of Students' Welfare
- (v) Heads of Departments and Centres of Studies
- (vi) Librarian
- (vii) Principals of Colleges maintained by the University
- (viii) All Professors, other than the Heads of Departments and Centres nominated by the Vice-Chancellor

Prof. A.N. Rai, - **Chairman**
Vice-Chancellor,
NEHU, Shillong

Prof. D.R. Syiemlieh - **Member**
Pro-Vice-Chancellor,
Shillong Campus.

Prof. E.D. Thomas - **Member**
Pro-Vice-Chancellor,
NEHU, Tura Campus

All Professors and Heads - **Members**

Dean of Students' Welfare - **Member**

Librarian - **Member**

Six principals of colleges admitted to the Privileges of the University

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-793002.
4. Principal,
B.B.S. College, Upper Mawprem, Shillong-793002.
5. Principal,
Morning Star College, Nongthymmai, Shillong.
6. Principal
Bissau College, Laitumkhrah, Shillong-793003.

Five teachers of the University, by rotation according to seniority of which two are Associate Professors and three Assistant Professors.

Associate Professors

1. Dr. I.L. Aier
Department of Sociology, NEHU, Shillong.
2. Dr. K.K. Singh
Department of Mathematics, NEHU, Shillong.

Assistant Professors

1. Dr. N.K. Sinha
Department of Geography, NEHU, Shillong.
2. Kum. N. Ganguly
Department of English, NEHU, Shillong.
3. Shri R.S. Thakur
Department of English, NEHU, Tura Campus, Tura.

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's College, Shillong.
6. Shri Herbran Syiem,
St. Anthony's College, Shillong

Two postgraduate students of the University, one from Sciences and one from Humanities and one Research Scholar elected on academic merit in the manner prescribed by Ordinance.

Post graduate Students

1. Ms. Argha Barpuzari
Department of Economics, NEHU, Shillong.
2. Ms. N. Susana Thomas
Department of Biotechnology & Bioinformatics, NEHU, Shillong.

Research Scholar

Mr. Bankhramnam Dkhar
Research Scholar, Department of Mathematics, NEHU, Shillong.

Permanent Invitee(s)

1. Director,
College Development Council, NEHU, Shillong.
2. Controller of Examinations, NEHU, Shillong.

Secretary (Ex-Officio)

Registrar, NEHU, Shillong.

MEMBERS OF THE BOARD OF RESEARCH STUDIES

Vice-Chancellor (Ex-Officio) Chairman
Prof. A.N. Rai

Dean of Schools (Ex-Officio Members)

1. Dean, School of Life Sciences, NEHU, Shillong.
2. Dean, School of Humanities NEHU, Shillong.
3. Dean, School of Physical Sciences, NEHU, Shillong.
4. Dean, School of Social Sciences, NEHU, Shillong.
5. Dean, School of Economics, Management & Information Sciences,
6. Dean, School of Human and Environmental Sciences.
7. Dean, School of Education
8. Dean, School of Technology

Heads of Departments and Centres of Studies, (Ex-Officio Members)

1. Head, Department of History, NEHU, Shillong.
2. Head, Department of Political Science, NEHU, Shillong.
3. Head, Department of Sociology, NEHU, Shillong.
4. Head, Department of Economics, NEHU, Shillong.

5. Head, Department of Library and Information Science, NEHU, Shillong.
6. Head, Department of Biotechnology & Bioinformatics, NEHU, Shillong.
7. Head, Department of Biochemistry, NEHU, Shillong.
8. Head, Department of Botany, NEHU, Shillong.
9. Head, Department of Zoology, NEHU, Shillong.
10. Head, Department of Anthropology, NEHU, Shillong.
11. Head, Department of Geography, NEHU, Shillong.
12. Head, Department of Chemistry, NEHU, Shillong.
13. Head, Department of Mathematics, NEHU, Shillong.
14. Head, Department of Physics, NEHU, Shillong.
15. Head, Department of English, NEHU, Shillong.
16. Head, Department of Khasi, NEHU, Shillong.
17. Head, Department of Linguistics, NEHU, Shillong.
18. Head, Department of Philosophy, NEHU, Shillong.
19. Head, Department of Education, NEHU, Shillong.

20. Head, Department of Hindi, NEHU, Shillong.
 21. Head, Department of Environmental Studies, NEHU, Shillong.
 22. Head, Department of Adult & Continuing Education, NEHU, Shillong.
 23. Head, Department of Cultural and Creative Studies, NEHU, Shillong.
 24. Head, Centre for Distance Education, NEHU, Shillong.
 25. Head, Centre for Science Education, NEHU, Shillong.
 26. Head, Department of Commerce, NEHU, Shillong.
 27. Head, Sophisticated Analytical Instrumentation Facility, NEHU, Shillong.
 28. Head, Department of English, NEHU, Tura Campus, Tura.
 29. Head, Department of Garo, NEHU, Tura Campus, Tura.
 30. Head, Department of Education, NEHU, Tura Campus, Tura.
 31. Head, Department of Rural Development and Agricultural Production, NEHU, Tura Campus, Tura.
 32. Head, Department of Statistics, NEHU, Shillong.
 33. Head, Department of Law, NEHU, Shillong.
 34. Head, Department of Management, Tura Campus, Tura.
 35. Head, Department of Electronics & Communication Engineering, NEHU, Shillong.
 36. Head, Department of Information Technology, NEHU, Shillong
 37. Head, Department of Basic Sciences & Social Sciences, NEHU, Shillong.
- Professors, other than Heads of Departments and Centres (Ex-Officio Members)**
- Department of Political Science
1. Prof. A.K. Baruah
 2. Prof. (Mrs) Rupa Borgohain
 3. Prof. L.S. Gassah
 4. Prof. B.J. Deb
- Department of Sociology
1. Prof. N. Kumar
 2. Prof. C.L. Imchen
- Department of History
1. Prof. D. R. Syiemlieh
 2. Prof. (Mrs) M. Momin
 3. Prof. (Mrs) M. Sharma
 4. Prof. F. A. Qadri
- Department of Economics
1. Prof. S.K. Mishra
 2. Prof. Eugene D. Thomas
 3. Prof. N. Srivastav
 4. Prof. P. Nayak
 5. Prof. B. Mishra
- Department of Commerce
1. Prof. N. M. Panda
- Centre for Science Education
1. Prof. M.M. Singh
 2. Prof. D. Bhattacharjee
 3. Prof. M. S. Bisht
- Centre for Environmental Studies
1. Prof. B.K. Tiwari
 2. Prof. L.K. Jha
 3. Prof. O. P. Singh

Members of the Board of Research Studies

Department of Biochemistry

1. Prof. A. N. Rai
2. Prof. R. Lalthantlunga
3. Prof. Ramesh Sharma
4. Prof. R. N. Sharan
5. Prof. Anis Alam

Department of Botany

1. Prof. P. Tandon
2. Prof. A. K. Misra
3. Prof. N. K. Chrungoo
4. Prof. R.C. Laloo
5. Prof. (Mrs) M.S. Dkhar
6. Prof. N. Venugopal
7. Prof. S.K. Barik

Department of Zoology

1. Prof. (Mrs) V. Tandon
2. Prof. B.K. Sharma
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
8. Prof. S. N. Ramanujam

Department of Anthropology

1. Prof. T.B. Subba
2. Prof. Henry Lamin
3. Prof. R. Khongsdier

Department of Geography

1. Prof. A.C. Mohapatra
2. Prof. Surendra Singh
3. Prof. B.S. Mipun
4. Prof. D. K. Nayak
5. Prof. Z. H. Qureshi

Department of Chemistry

1. Prof. K. Ismail
2. Prof. R.K. Poddar
3. Prof. R. H. D. Lyngdoh
4. Prof. B. Myrboh
5. Prof. R. A. Lal
6. Prof. K.M. Rao

Department of Mathematics

1. Prof. S.S. Khare
2. Prof. M. B. Rege
3. Prof. S.K. Srivastava
4. Prof. H. K. Mukerjee

Department of Physics

1. Prof. P. Shukla
2. Prof. P.N. Pandita
3. Prof. Y. S. Jain
4. Prof. B.M. Jyrwa
5. Prof. Satish Kumar
6. Prof. P. Nongkynrih

Department of English

1. Prof. (Mrs) T. Ao
2. Prof. (Mrs) E. Syiem

Department of Biotechnology & Bioinformatics

1. Prof. A. Chatterjee
2. Prof. S.R. Rao

Department of Business Management, Tura

1. Prof. Gandu Singaiah

Department of Khasi

1. Prof. (Ms) B. War
2. Prof. M.B. Jyrwa

Department of Linguistics

1. Prof. (Ms) J. War

Department of Philosophy

1. Prof. C. R. Agera
2. Prof. Jagat Pal
3. Prof. B.K. Agarwala
4. Prof. Vanlalnghak

Department of Education

1. Prof. (Ms) A. Henia
2. Prof. P.K. Gupta
3. Prof. R.S. Wangu
4. Prof. (Mrs) Sherwin Sungoh

Sophisticated Analytical Instrumental Facility

1. Prof. R.P. Bajpai

NEHU Annual Report 2010-2011

Department of Basic Sciences & Social Sciences

1. Prof. (Mrs) P.V. Koparkar (adjunct)

Department of Cultural and Creative Studies

1. Prof. D. Kharmawphlang
2. Prof. P. Jhingan

Department of Rural Development & Agricultural Production, Tura

1. Prof. S.C. Srivastava

Department of Statistics

1. Prof. G. Das

Six Associate Professors nominated by the Vice-Chancellor, three of which are from Humanities & Social Sciences and three from Sciences

1. Dr. (Mrs) J. Mozika
Department of Law, NEHU, Shillong
2. Dr. A.P. Pati,
Department of Commerce, NEHU, Shillong.
3. Dr. J. Mawthoh, Department of
Adult & Continuing Education, NEHU,
Shillong.
4. Dr. D. Paul,
Department of Environmental Studies,
NEHU, Shillong.

5. Dr. P.K. Saikia, Department of
Mathematics, NEHU, Shillong.

6. Dr. A.K. Dixit, Department of
Zoology, NEHU, Shillong.

Four external experts, two representing Humanities and Social Sciences and two representing Sciences appointed by the Vice-Chancellor

1. Prof. Akhilesh Choube,
Department of Education, Lucknow
University, Lucknow.
2. Prof. Kapil Kapoor,
(Formerly Rector, JNU), B.2/332, Ekta
Gordens, No. 9, ZP Extension, New Delhi -
110092.
3. Prof. L.C. Rai
Department of Botany, Banaras Hindu
University, Varanasi-5.
4. Prof. Diptiman Sen,
Centre for High Energy Physics, Indian
Institute of Science, Bangalore – 560012.

Secretary (Ex-Officio)

Registrar, NEHU, Shillong.

ANNEXURE "A"

ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2010-11 :

UNIVERSITY TEACHING DEPARTMENTS

| COURSES | Gen | Gen | ST | ST | SC | SC | OBC | OBC | Total | Total |
|---------------------------------|------------|-----------|------------|------------|-----------|-----------|-----------|----------|------------|------------|
| | M | F | M | F | M | F | M | F | M | F |
| B A L L B (Honours) | | | | | | | | | | |
| First Year | 1 | 4 | 28 | 23 | 0 | 1 | 1 | 0 | 30 | 28 |
| Second Year | 2 | 2 | 19 | 36 | 0 | 1 | 0 | 0 | 21 | 39 |
| Third Year | 1 | 6 | 25 | 25 | 0 | 0 | 0 | 3 | 26 | 34 |
| Fourth Year | 4 | 7 | 20 | 26 | 0 | 2 | 0 | 1 | 24 | 36 |
| Fifth Year | 6 | 13 | 7 | 22 | 1 | 1 | 0 | 0 | 14 | 36 |
| Total | 14 | 32 | 99 | 132 | 1 | 5 | 1 | 4 | 115 | 173 |
| B Tech | | | | | | | | | | |
| First Year | 41 | 7 | 35 | 12 | 13 | 1 | 8 | 3 | 97 | 23 |
| Second Year | 35 | 14 | 37 | 12 | 17 | 4 | 5 | 1 | 94 | 31 |
| Third Year | 27 | 10 | 30 | 6 | 25 | 9 | 12 | 2 | 94 | 27 |
| Fourth Year | 35 | 19 | 10 | 1 | 17 | 0 | 19 | 3 | 81 | 23 |
| Total | 138 | 50 | 112 | 31 | 72 | 14 | 44 | 9 | 366 | 104 |
| B Ed (Special Education) | | | | | | | | | | |
| First Year | 14 | 13 | 6 | 37 | 5 | 1 | 7 | 1 | 32 | 52 |
| Second Year | 9 | 8 | 14 | 19 | 1 | 2 | 2 | 3 | 26 | 32 |
| Total | 23 | 21 | 20 | 56 | 6 | 3 | 9 | 4 | 58 | 84 |
| MA | | | | | | | | | | |
| First Year | 7 | 33 | 194 | 442 | 0 | 2 | 1 | 2 | 202 | 479 |
| Second Year | 6 | 32 | 169 | 369 | 0 | 3 | 1 | 4 | 176 | 408 |
| Total | 13 | 65 | 363 | 811 | 0 | 5 | 2 | 6 | 378 | 887 |
| M Sc | | | | | | | | | | |
| First Year | 21 | 26 | 133 | 103 | 1 | 2 | 2 | 1 | 157 | 132 |
| Second Year | 22 | 22 | 110 | 115 | 2 | 2 | 2 | 1 | 136 | 140 |
| Total | 43 | 48 | 243 | 218 | 3 | 4 | 4 | 2 | 293 | 272 |

NEHU Annual Report 2010-2011

| COURSES | Gen M | Gen F | S T M | S T F | S C M | S C F | OBC M | OBC F | Total M | Total F |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| M Com | | | | | | | | | | |
| First Year | 13 | 9 | 19 | 11 | 0 | 0 | 0 | 0 | 32 | 20 |
| Second Year | 3 | 3 | 8 | 12 | 0 | 0 | 0 | 0 | 11 | 15 |
| Total | 16 | 12 | 27 | 23 | 0 | 0 | 0 | 0 | 43 | 35 |
| M Lib Info Sc | | | | | | | | | | |
| First Year | 3 | 7 | 1 | 18 | 0 | 1 | 0 | 0 | 4 | 26 |
| Second Year | 0 | 2 | 11 | 11 | 0 | 0 | 0 | 0 | 11 | 13 |
| Total | 3 | 9 | 12 | 29 | 0 | 1 | 0 | 0 | 15 | 39 |
| M B A | | | | | | | | | | |
| First Year | 4 | 5 | 12 | 6 | 3 | 0 | 0 | 0 | 19 | 11 |
| Second Year | 9 | 5 | 9 | 4 | 1 | 1 | 0 | 0 | 19 | 10 |
| Total | 13 | 10 | 21 | 10 | 4 | 1 | 0 | 0 | 38 | 21 |
| M Ed | | | | | | | | | | |
| First Year | 1 | 0 | 2 | 18 | 0 | 0 | 0 | 0 | 3 | 18 |
| M Phil | | | | | | | | | | |
| Newly Enrolled | 2 | 1 | 1 | 11 | 0 | 0 | 0 | 0 | 3 | 12 |
| Previously Enrolled | 2 | 2 | 12 | 17 | 0 | 0 | 0 | 1 | 14 | 20 |
| Total | 4 | 3 | 13 | 28 | 0 | 0 | 0 | 1 | 17 | 32 |
| PhD | | | | | | | | | | |
| Newly Enrolled | 30 | 35 | 46 | 51 | 4 | 3 | 1 | 6 | 81 | 95 |
| Previously Enrolled | 95 | 102 | 164 | 208 | 7 | 6 | 8 | 3 | 274 | 319 |
| Total | 125 | 137 | 210 | 259 | 11 | 9 | 9 | 9 | 355 | 414 |
| PG Diploma | | | | | | | | | | |
| First Year | 8 | 8 | 24 | 26 | 3 | 0 | 0 | 0 | 35 | 34 |
| Certificate | | | | | | | | | | |
| First Year | 1 | 2 | 5 | 10 | 0 | 0 | 0 | 0 | 6 | 12 |

FC-SEDE

| | | | | | | | | | | |
|------------|----|----|----|----|---|---|----|----|-----|-----|
| First Year | 39 | 19 | 53 | 74 | 6 | 0 | 23 | 11 | 121 | 104 |
|------------|----|----|----|----|---|---|----|----|-----|-----|

| | | | | | | | | | | |
|--------------------|------------|------------|-------------|-------------|------------|-----------|-----------|-----------|-------------|-------------|
| GRAND TOTAL | 441 | 416 | 1204 | 1725 | 106 | 42 | 92 | 46 | 1843 | 2229 |
|--------------------|------------|------------|-------------|-------------|------------|-----------|-----------|-----------|-------------|-------------|

ANNEXURE "B"**ENROLMENT OF STUDENTS FROM DIFFERENT STATES FOR THE ACADEMIC YEAR 2010-11
UNIVERSITY TEACHING DEPARTMENTS**

| | GEN | | S. T. | | S. C | | OBC | | TOTAL | TOTAL |
|-------------------------|-----------|-----------|-----------|------------|----------|----------|----------|----------|------------|------------|
| | M | F | M | F | M | F | M | F | M | F |
| BA LLB (Honours) | | | | | | | | | | |
| Arunachal Pradesh | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Assam | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 |
| Bihar | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| Manipur | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Meghalaya | 13 | 28 | 94 | 131 | 1 | 4 | 0 | 4 | 108 | 167 |
| Mizoram | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 1 |
| Tripura | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 14 | 32 | 99 | 132 | 1 | 5 | 1 | 4 | 115 | 173 |

| | GEN | | S. T. | | S. C | | OBC | | TOTAL | TOTAL |
|---------------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|------------|-----------|
| | M | F | M | F | M | F | M | F | M | F |
| B Tech (ECE) | | | | | | | | | | |
| Andhra Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Arunachal Pradesh | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Assam | 50 | 8 | 36 | 10 | 36 | 7 | 15 | 2 | 137 | 27 |
| Bihar | 9 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 10 | 3 |
| Delhi | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Madhya Pradesh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Manipur | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Meghalaya | 9 | 9 | 18 | 0 | 2 | 1 | 0 | 0 | 29 | 10 |
| Orissa | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Uttar Pradesh | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| West Bengal | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 2 |
| Total | 75 | 25 | 55 | 10 | 39 | 8 | 18 | 3 | 187 | 46 |

NEHU Annual Report 2010-2011

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|--------------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|------------|-----------|
| B Tech (IT) | M | F | M | F | M | F | M | F | M | F |
| Anunachal Pradesh | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Assam | 54 | 18 | 34 | 7 | 30 | 5 | 23 | 6 | 141 | 36 |
| Bihar | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Kerala | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Manipur | 3 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 7 | 0 |
| Meghalaya | 1 | 4 | 21 | 14 | 1 | 0 | 1 | 0 | 24 | 18 |
| Nagaland | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| New Delhi | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Sikkim | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Uttar Pradesh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| West Bengal | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| Total | 63 | 25 | 57 | 21 | 33 | 6 | 26 | 6 | 179 | 58 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|--------------------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|
| BEd (Special Education) | M | F | M | F | M | F | M | F | M | F |
| Assam | 10 | 5 | 0 | 2 | 2 | 1 | 4 | 2 | 16 | 10 |
| Manipur | 4 | 6 | 1 | 1 | 0 | 1 | 1 | 1 | 6 | 9 |
| Meghalaya | 5 | 7 | 13 | 29 | 1 | 0 | 4 | 1 | 23 | 37 |
| Mizoram | 0 | 0 | 6 | 22 | 0 | 1 | 0 | 0 | 6 | 23 |
| Nagaland | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tripura | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 1 |
| U P | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| West Bengal | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| Total | 23 | 21 | 20 | 56 | 6 | 3 | 9 | 4 | 58 | 84 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|-------------------|-----------|-----------|------------|------------|----------|----------|----------|----------|------------|------------|
| MA | M | F | M | F | M | F | M | F | M | F |
| Anunachal Pradesh | 0 | 0 | 5 | 30 | 0 | 0 | 0 | 0 | 5 | 30 |
| Assam | 2 | 11 | 10 | 4 | 0 | 0 | 0 | 1 | 12 | 16 |
| Bhutan | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Bihar | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Manipur | 1 | 3 | 54 | 56 | 0 | 0 | 0 | 0 | 55 | 59 |
| Meghalaya | 9 | 44 | 218 | 580 | 0 | 5 | 2 | 5 | 229 | 634 |
| Mizoram | 0 | 0 | 39 | 44 | 0 | 0 | 0 | 0 | 39 | 44 |
| Nagaland | 0 | 0 | 33 | 85 | 0 | 0 | 0 | 0 | 33 | 85 |
| Tripura | 0 | 3 | 4 | 12 | 0 | 0 | 0 | 0 | 4 | 15 |
| U P | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| West Bengal | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total | 13 | 65 | 363 | 811 | 0 | 5 | 2 | 6 | 378 | 887 |

| | GEN | | S. T. | | S. C | | OBC | | TOTAL | TOTAL |
|-------------------|-----------|-----------|------------|------------|----------|----------|----------|----------|------------|------------|
| | M | F | M | F | M | F | M | F | M | F |
| MSc | | | | | | | | | | |
| Arunachal Pradesh | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Assam | 4 | 9 | 3 | 2 | 1 | 2 | 1 | 2 | 9 | 15 |
| Kerala | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Manipur | 8 | 2 | 9 | 11 | 0 | 0 | 2 | 0 | 19 | 13 |
| Meghalaya | 26 | 34 | 200 | 174 | 2 | 2 | 1 | 0 | 229 | 210 |
| Mizoram | 0 | 0 | 8 | 9 | 0 | 0 | 0 | 0 | 8 | 9 |
| Nagaland | 1 | 0 | 20 | 20 | 0 | 0 | 0 | 0 | 21 | 20 |
| Tripura | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 |
| U P | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| West Bengal | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| Total | 43 | 48 | 243 | 218 | 3 | 4 | 4 | 2 | 293 | 272 |

| | GEN | | S. T. | | S. C | | OBC | | TOTAL | TOTAL |
|-------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|
| | M | F | M | F | M | F | M | F | M | F |
| MCom | | | | | | | | | | |
| Arunachal Pradesh | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Assam | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Manipur | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Meghalaya | 14 | 10 | 21 | 16 | 0 | 0 | 0 | 0 | 35 | 26 |
| Mizoram | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Nagaland | 0 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 2 | 5 |
| Total | 16 | 12 | 27 | 23 | 0 | 0 | 0 | 0 | 43 | 35 |

| | GEN | | S. T. | | S. C | | OBC | | TOTAL | TOTAL |
|------------------|----------|----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|
| | M | F | M | F | M | F | M | F | M | F |
| MLib InfoSc | | | | | | | | | | |
| Assam | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Manipur | 2 | 2 | 0 | 3 | 0 | 1 | 0 | 0 | 2 | 6 |
| Meghalaya | 1 | 5 | 10 | 25 | 0 | 0 | 0 | 0 | 11 | 30 |
| Mizoram | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Nagaland | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 3 | 9 | 12 | 29 | 0 | 1 | 0 | 0 | 15 | 39 |

| | GEN | | S. T. | | S. C | | OBC | | TOTAL | TOTAL |
|------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|
| | M | F | M | F | M | F | M | F | M | F |
| MBA | | | | | | | | | | |
| Assam | 7 | 6 | 1 | 3 | 1 | 0 | 0 | 0 | 9 | 9 |
| Manipur | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Meghalaya | 3 | 4 | 19 | 7 | 2 | 1 | 0 | 0 | 24 | 12 |
| Nagaland | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Orissa | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| U P | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Total | 13 | 10 | 21 | 10 | 4 | 1 | 0 | 0 | 38 | 21 |

NEHU Annual Report 2010-2011

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|------------------|-----|-----|-------|-------|------|------|-----|-----|-------|-------|
| | M | F | M | F | M | F | M | F | M | F |
| MEd | | | | | | | | | | |
| Meghalaya | 1 | 0 | 2 | 18 | 0 | 0 | 0 | 0 | 3 | 18 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|------------------|-----|-----|-------|-------|------|------|-----|-----|-------|-------|
| | M | F | M | F | M | F | M | F | M | F |
| MPhil | | | | | | | | | | |
| Assam | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Mizoram | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Meghalaya | 4 | 3 | 12 | 26 | 0 | 0 | 0 | 1 | 16 | 30 |
| Total | 4 | 3 | 13 | 28 | 0 | 0 | 0 | 1 | 17 | 32 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|-------------------|-----|-----|-------|-------|------|------|-----|-----|-------|-------|
| | M | F | M | F | M | F | M | F | M | F |
| PhD | | | | | | | | | | |
| Anunachal Pradesh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Assam | 6 | 6 | 3 | 2 | 1 | 3 | 0 | 1 | 10 | 12 |
| Bhutan | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Bihar | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Kerala | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Madhya Pradesh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Manipur | 1 | 2 | 9 | 3 | 1 | 0 | 0 | 0 | 11 | 5 |
| Meghalaya | 111 | 126 | 193 | 249 | 9 | 6 | 9 | 7 | 322 | 388 |
| Nagaland | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 1 | 3 |
| Orissa | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sikkim | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Tamil Nadu | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Tripura | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 3 | 2 |
| U P | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| West Bengal | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 125 | 137 | 210 | 259 | 11 | 9 | 9 | 9 | 355 | 414 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|-------------------|-----|-----|-------|-------|------|------|-----|-----|-------|-------|
| | M | F | M | F | M | F | M | F | M | F |
| PG Diploma | | | | | | | | | | |
| Andhra Pradesh | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Assam | 4 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 5 |
| Manipur | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Meghalaya | 2 | 2 | 22 | 21 | 1 | 0 | 0 | 0 | 25 | 23 |
| Mizoram | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Nagaland | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| New Delhi | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| Tripura | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 8 | 8 | 24 | 26 | 3 | 0 | 0 | 0 | 35 | 34 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|--------------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| | M | F | M | F | M | F | M | F | M | F |
| Certificate | | | | | | | | | | |
| Assam | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Meghalaya | 1 | 0 | 5 | 10 | 0 | 0 | 0 | 0 | 6 | 10 |
| Total | 1 | 2 | 5 | 10 | 0 | 0 | 0 | 0 | 6 | 12 |

| | GEN | GEN | S. T. | S. T. | S. C | S. C | OBC | OBC | TOTAL | TOTAL |
|---------------------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|------------|------------|
| | M | F | M | F | M | F | M | F | M | F |
| FC-SEDE (DE) | | | | | | | | | | |
| Assam | 22 | 9 | 4 | 4 | 2 | 0 | 13 | 7 | 41 | 20 |
| Meghalaya | 4 | 4 | 9 | 33 | 0 | 0 | 0 | 0 | 13 | 37 |
| Mizoram | 0 | 0 | 19 | 19 | 1 | 0 | 0 | 0 | 20 | 19 |
| Nagaland | 0 | 0 | 20 | 17 | 0 | 0 | 0 | 0 | 20 | 17 |
| Rajasthan | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Tripura | 12 | 5 | 1 | 1 | 3 | 0 | 10 | 4 | 26 | 10 |
| West Bengal | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 39 | 19 | 53 | 74 | 6 | 0 | 23 | 11 | 121 | 104 |

ANNEXURE "C"

ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2010-11 : Affiliated Colleges

| | Gen | Gen | ST | ST | S C | S C | OBC | OBC | Total | Total |
|-------------------------|------------|------------|-------------|-------------|-----------|-----------|-----------|------------|-------------|--------------|
| | M | F | M | F | M | F | M | F | M | F |
| COURSES | | | | | | | | | | |
| BA (PASS) | | | | | | | | | | |
| FIRST YEAR | 273 | 386 | 4504 | 5179 | 27 | 31 | 21 | 51 | 4825 | 5647 |
| SECOND YEAR | 123 | 169 | 1761 | 2246 | 10 | 20 | 8 | 20 | 1902 | 2455 |
| THIRD YEAR | 124 | 202 | 1376 | 1942 | 6 | 17 | 9 | 29 | 1515 | 2190 |
| BA (PASS) TOTAL | 520 | 757 | 7641 | 9367 | 43 | 68 | 38 | 100 | 8242 | 10292 |
| BSc (PASS) | | | | | | | | | | |
| FIRST YEAR | 13 | 7 | 82 | 93 | 1 | 0 | 3 | 0 | 99 | 100 |
| SECOND YEAR | 7 | 4 | 37 | 21 | 0 | 0 | 0 | 0 | 44 | 25 |
| THIRD YEAR | 2 | 7 | 16 | 28 | 0 | 1 | 0 | 1 | 18 | 37 |
| BSc (PASS) TOTAL | 22 | 18 | 135 | 142 | 1 | 1 | 3 | 1 | 161 | 162 |

NEHU Annual Report 2010-2011

BSc HOME SCIENCE (PASS)

| | | | | | | | | | | |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| FIRST YEAR | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| SECOND YEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| THIRD YEAR | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| BSc HOME SCIENCE (PASS) TOTAL | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |

BCom (PASS)

| | | | | | | | | | | |
|--------------------------|------------|------------|------------|------------|----------|----------|----------|----------|-------------|------------|
| FIRST YEAR | 187 | 76 | 389 | 166 | 7 | 3 | 6 | 3 | 589 | 248 |
| SECOND YEAR | 79 | 49 | 202 | 97 | 1 | 1 | 2 | 0 | 284 | 147 |
| THIRD YEAR | 86 | 32 | 143 | 55 | 1 | 0 | 0 | 2 | 230 | 89 |
| BCom (PASS) TOTAL | 352 | 157 | 734 | 318 | 9 | 4 | 8 | 5 | 1103 | 484 |

BA (HONOURS)

| | | | | | | | | | | |
|---------------------------|------------|------------|-------------|-------------|-----------|-----------|-----------|-----------|-------------|-------------|
| FIRST YEAR | 198 | 244 | 1334 | 2227 | 18 | 14 | 6 | 16 | 1556 | 2501 |
| SECOND YEAR | 136 | 168 | 969 | 1378 | 3 | 7 | 3 | 8 | 1111 | 1561 |
| THIRD YEAR | 121 | 164 | 940 | 1395 | 11 | 13 | 2 | 9 | 1074 | 1581 |
| BA (HONOURS) TOTAL | 455 | 576 | 3243 | 5000 | 32 | 34 | 11 | 33 | 3741 | 5643 |

BSc (HONOURS)

| | | | | | | | | | | |
|----------------------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-------------|-------------|
| FIRST YEAR | 233 | 137 | 501 | 513 | 9 | 8 | 14 | 15 | 757 | 673 |
| SECOND YEAR | 136 | 101 | 253 | 245 | 6 | 9 | 13 | 11 | 408 | 366 |
| THIRD YEAR | 89 | 100 | 207 | 208 | 5 | 4 | 2 | 9 | 303 | 321 |
| BSc (HONOURS) TOTAL | 458 | 338 | 961 | 966 | 20 | 21 | 29 | 35 | 1468 | 1360 |

BSc HOME SCIENCE (HONOURS)

| | | | | | | | | | | |
|------------------------------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| FIRST YEAR | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 20 |
| SECOND YEAR | 0 | 1 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 23 |
| THIRD YEAR | 0 | 1 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 18 |
| BSc HOME SC (HONOURS) TOTAL | 0 | 2 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 61 |

BEd

| | | | | | | | | | | |
|------------------|-----------|-----------|-----------|------------|----------|----------|----------|-----------|------------|------------|
| FIRST YEAR | 39 | 29 | 89 | 169 | 2 | 5 | 8 | 11 | 138 | 214 |
| BEd TOTAL | 39 | 29 | 89 | 169 | 2 | 5 | 8 | 11 | 138 | 214 |

| COURSES | Gen | | ST | ST | S | SC | OBC | OBC | Total | Total |
|-----------------------------|------------|------------|------------|------------|-----------|-----------|----------|-----------|-------------|------------|
| | M | F | M | F | C | F | M | F | M | F |
| BCom (HONOURS) | | | | | | | | | | |
| FIRST YEAR | 179 | 126 | 369 | 204 | 11 | 12 | 3 | 5 | 562 | 347 |
| SECOND YEAR | 174 | 100 | 261 | 160 | 8 | 6 | 1 | 5 | 444 | 271 |
| THIRD YEAR | 124 | 76 | 141 | 98 | 4 | 3 | 3 | 2 | 272 | 179 |
| BCom (HONOURS) TOTAL | 477 | 302 | 771 | 462 | 23 | 21 | 7 | 12 | 1278 | 797 |

| | | | | | | | | | | |
|-----------------------------------|------------|------------|------------|------------|----------|-----------|-----------|----------|------------|------------|
| BBA (HONOURS) | | | | | | | | | | |
| FIRST YEAR | 64 | 74 | 31 | 22 | 1 | 0 | 1 | 0 | 97 | 96 |
| SECOND YEAR | 91 | 56 | 31 | 16 | 0 | 1 | 4 | 3 | 126 | 76 |
| THIRD YEAR | 103 | 71 | 37 | 17 | 4 | 1 | 5 | 3 | 149 | 92 |
| BBA (HONOURS) TOTAL | 258 | 201 | 99 | 55 | 5 | 2 | 10 | 6 | 372 | 264 |
| BCA (HONOURS) | | | | | | | | | | |
| FIRST YEAR | 24 | 21 | 37 | 28 | 1 | 1 | 0 | 4 | 62 | 54 |
| SECOND YEAR | 14 | 13 | 22 | 14 | 2 | 3 | 9 | 1 | 47 | 31 |
| THIRD YEAR | 29 | 25 | 21 | 10 | 0 | 1 | 6 | 2 | 56 | 38 |
| BCA (HONOURS) TOTAL | 67 | 59 | 80 | 52 | 3 | 5 | 15 | 7 | 165 | 123 |
| BSW | | | | | | | | | | |
| FIRST YEAR | 7 | 9 | 18 | 46 | 0 | 2 | 0 | 1 | 25 | 58 |
| SECOND YEAR | 1 | 10 | 21 | 28 | 1 | 0 | 0 | 0 | 23 | 38 |
| THIRD YEAR | 0 | 1 | 21 | 38 | 0 | 0 | 0 | 0 | 21 | 39 |
| BSW TOTAL | 8 | 20 | 60 | 112 | 1 | 2 | 0 | 1 | 69 | 135 |
| LLB | | | | | | | | | | |
| FIRST YEAR | 9 | 11 | 192 | 99 | 1 | 0 | 2 | 1 | 204 | 111 |
| SECOND YEAR | 7 | 7 | 74 | 77 | 1 | 1 | 0 | 2 | 82 | 87 |
| THIRD YEAR | 15 | 19 | 111 | 73 | 1 | 1 | 0 | 0 | 127 | 93 |
| LLB TOTAL | 31 | 37 | 377 | 249 | 3 | 2 | 2 | 3 | 413 | 291 |
| BSc (NURSING) | | | | | | | | | | |
| FIRST YEAR | 1 | 9 | 10 | 32 | 1 | 7 | 0 | 3 | 12 | 51 |
| SECOND YEAR | 0 | 2 | 3 | 38 | 0 | 1 | 0 | 1 | 3 | 42 |
| THIRD YEAR | 0 | 2 | 2 | 31 | 0 | 6 | 0 | 1 | 2 | 40 |
| FOURTH YEAR | 0 | 4 | 6 | 45 | 0 | 3 | 0 | 1 | 6 | 53 |
| BSc (NURSING) TOTAL | 1 | 17 | 21 | 146 | 1 | 17 | 0 | 6 | 23 | 186 |
| MBBS | | | | | | | | | | |
| FIRST YEAR | 5 | 10 | 15 | 10 | 0 | 0 | 7 | 3 | 27 | 23 |
| SECOND YEAR | 9 | 11 | 14 | 7 | 1 | 1 | 2 | 5 | 26 | 24 |
| THIRD YEAR | 16 | 13 | 13 | 8 | 0 | 0 | 0 | 0 | 29 | 21 |
| MBBS TOTAL | 30 | 34 | 42 | 25 | 1 | 1 | 9 | 8 | 82 | 68 |
| BE Civil Engineering | | | | | | | | | | |
| FIRST YEAR | 13 | 4 | 8 | 4 | 1 | 0 | 3 | 0 | 25 | 8 |
| BE Civil Engineering TOTAL | 13 | 4 | 8 | 4 | 1 | 0 | 3 | 0 | 25 | 8 |

NEHU Annual Report 2010-2011

| COURSES | Gen | Gen | S T | S T | SC | S C | OBC | OBC | Total | Total |
|---------------------------------------------------------|------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|------------|-----------|
| | M | F | M | F | M | F | M | F | M | F |
| BE COMPUTER SCIENCE ENGINEERING | | | | | | | | | | |
| FIRST YEAR | 38 | 16 | 5 | 5 | 6 | 1 | 12 | 2 | 61 | 24 |
| SECOND YEAR | 14 | 11 | 4 | 1 | 6 | 1 | 23 | 13 | 47 | 26 |
| THIRD YEAR | 18 | 8 | 6 | 4 | 4 | 0 | 9 | 2 | 37 | 14 |
| FOURTH YEAR | 16 | 8 | 6 | 0 | 3 | 0 | 12 | 2 | 37 | 10 |
| BE CSE TOTAL | 86 | 43 | 21 | 10 | 19 | 2 | 56 | 19 | 182 | 74 |
| BE ELECTRONICS & COMMUNUCATIONAL ENGINEERING | | | | | | | | | | |
| FIRST YEAR | 46 | 18 | 3 | 5 | 1 | 0 | 10 | 6 | 60 | 29 |
| SECOND YEAR | 34 | 15 | 3 | 0 | 6 | 0 | 32 | 13 | 75 | 28 |
| THIRD YEAR | 22 | 6 | 5 | 1 | 1 | 0 | 18 | 3 | 46 | 10 |
| FOURTH YEAR | 28 | 4 | 2 | 1 | 4 | 0 | 11 | 2 | 45 | 7 |
| BE ECE TOTAL | 130 | 43 | 13 | 7 | 12 | 0 | 71 | 24 | 226 | 74 |
| BE ELECTRICAL & ELECTRONICS ENGINEERING | | | | | | | | | | |
| FIRST YEAR | 7 | 2 | 3 | 2 | 3 | 0 | 5 | 1 | 18 | 5 |
| BE EEE TOTAL | 7 | 2 | 3 | 2 | 3 | 0 | 5 | 1 | 18 | 5 |
| BE INFORMATION TECHNOLOGY | | | | | | | | | | |
| FIRST YEAR | 32 | 6 | 8 | 1 | 2 | 1 | 7 | 2 | 49 | 10 |
| SECOND YEAR | 17 | 4 | 7 | 3 | 7 | 3 | 23 | 11 | 54 | 21 |
| THIRD YEAR | 19 | 4 | 6 | 2 | 2 | 0 | 12 | 4 | 39 | 10 |
| FOURTH YEAR | 3 | 1 | 1 | 4 | 1 | 0 | 3 | 1 | 8 | 6 |
| BE IT TOTAL | 71 | 15 | 22 | 10 | 12 | 4 | 45 | 18 | 150 | 47 |
| BE MECHANICAL ENGINEERING | | | | | | | | | | |
| FIRST YEAR | 22 | 0 | 6 | 0 | 2 | 0 | 10 | 0 | 40 | 0 |
| BE MECHANICAL ENGINEERING TOTAL | 22 | 0 | 6 | 0 | 2 | 0 | 10 | 0 | 40 | 0 |
| M B A | | | | | | | | | | |
| FIRST YEAR | 10 | 15 | 1 | 0 | 0 | 0 | 2 | 0 | 13 | 15 |
| SECOND YEAR | 14 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 17 |
| M B A TOTAL | 24 | 32 | 1 | 0 | 0 | 0 | 2 | 0 | 27 | 32 |
| M C A | | | | | | | | | | |
| FIRST YEAR | 6 | 3 | 12 | 8 | 1 | 1 | 0 | 0 | 19 | 12 |
| SECOND YEAR | 8 | 6 | 10 | 4 | 1 | 0 | 0 | 0 | 19 | 10 |
| THIRD YEAR | 5 | 7 | 9 | 5 | 1 | 0 | 1 | 0 | 16 | 12 |
| M C A TOTAL | 19 | 16 | 31 | 17 | 3 | 1 | 1 | 0 | 54 | 34 |

| | | | | | | | | | | | |
|---------------------|-----|-----|------|------|----|-----|---|-----|------|------|--|
| MSc (BIOTECHNOLOGY) | | | | | | | | | | | |
| FIRST YEAR | 6 | 7 | 3 | 6 | 0 | 0 | 0 | 0 | 9 | 13 | |
| SECOND YEAR | 6 | 7 | 2 | 5 | 1 | 1 | 0 | 0 | 9 | 13 | |
| MSc (BIOTECHNOLOGY) | | | | | | | | | | | |
| TOTAL | 12 | 14 | 5 | 11 | 1 | 1 | 0 | 0 | 18 | 26 | |
| PGDCA | | | | | | | | | | | |
| FIRST YEAR | 3 | 3 | 9 | 5 | 0 | 0 | 1 | 1 | 13 | 9 | |
| PGDCA TOTAL | 3 | 3 | 9 | 5 | 0 | 0 | 1 | 1 | 13 | 9 | |
| GRAND TOTAL | 310 | 271 | 1437 | 1719 | 19 | 191 | 4 | 291 | 1800 | 2039 | |
| | 5 | 9 | 2 | 1 | 7 | 191 | 4 | 291 | 8 | 2 | |

ANNEXURE "D"

ENROLMENT OF STUDENTS FROM DIFFERENT STATES FOR THE ACADEMIC YEAR 2010-11: AFFILIATED COLLEGES

| STATE | GEN | | S. T. | | S. C | | OBC | | TOTAL | |
|-------------------|------|------|-------|-------|------|-----|-----|-----|-------|-------|
| | M | F | M | F | M | F | M | F | M | F |
| Andhra Pradesh | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| Arunachal Pradesh | 30 | 23 | 279 | 252 | 9 | 6 | 2 | 1 | 320 | 282 |
| Assam | 399 | 230 | 152 | 124 | 56 | 17 | 188 | 91 | 795 | 462 |
| Bihar | 42 | 19 | 1 | 0 | 0 | 1 | 6 | 2 | 49 | 22 |
| Chattisgarh | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Delhi | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Foreign Students | 87 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 87 |
| Gujarat | 209 | 212 | 9 | 0 | 0 | 0 | 0 | 0 | 218 | 212 |
| Haryana | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 |
| Himachal Pradesh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Jammu & Kashmir | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Jharkhand | 18 | 4 | 3 | 1 | 0 | 4 | 3 | 8 | 24 | 17 |
| Kerala | 46 | 8 | 0 | 0 | 0 | 12 | 0 | 9 | 46 | 29 |
| Maharashtra | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Manipur | 72 | 59 | 995 | 808 | 12 | 17 | 14 | 9 | 1093 | 893 |
| Meghalaya | 2110 | 2000 | 11313 | 14650 | 109 | 125 | 112 | 164 | 13644 | 16939 |

NEHU Annual Report 2010-2011

| | | | | | | | | | | |
|--------------------|-------------|-------------|--------------|--------------|------------|------------|------------|------------|--------------|--------------|
| Mizoram | 8 | 10 | 648 | 555 | 1 | 0 | 0 | 0 | 657 | 565 |
| Nagaland | 55 | 29 | 833 | 686 | 4 | 4 | 1 | 0 | 893 | 719 |
| Orissa | 4 | 5 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 6 |
| Punjab | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Rajasthan | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| Tamilnadu | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Tripura | 12 | 8 | 139 | 115 | 6 | 3 | 2 | 3 | 159 | 129 |
| Uttar Pradesh | 4 | 7 | 0 | 0 | 0 | 0 | 2 | 1 | 6 | 8 |
| Uttaranchal | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| West Bengal | 1 | 6 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 8 |
| GRAND TOTAL | 3105 | 2719 | 14372 | 17191 | 197 | 191 | 334 | 291 | 18008 | 20392 |

ANNEXURE "E"

RESULT ANALYSIS FOR THE YEAR 2010 EXAMINATION

| COURSES | Number of students appeared | | | | | | | | | | Number of students passed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-----------------------------|-----|-------|------|-------|----|-----|----|-------|------|---------------------------|------|------|----|----|-----|-------|-----|-----|-----|-----|-----|-------|-----|-----|---|----|----|-----|----|----|---|----|----|-------|-----|-----|----|-----|------|----|-----|-----|
| | Gen | | S. T. | | S. C. | | OBC | | Total | | General | | | | | | S. T. | | | | | | S. C. | | | | | | OBC | | | | | | TOTAL | | | | | | | | |
| | 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 | I | II | SP | I | II | SP | | | |
| B A (Pass) | 147 | 229 | 830 | 1378 | 2014 | 11 | 16 | 15 | 27 | 2386 | 1 | 25 | 183 | 0 | 49 | 366 | 1 | 97 | 731 | 1 | 128 | 960 | 0 | 1 | 9 | 0 | 1 | 9 | 0 | 2 | 18 | 0 | 1 | 9 | 0 | 123 | 941 | 0 | 179 | 1344 | | | |
| B A (Hons) | 120 | 140 | 830 | 1378 | 1084 | 7 | 10 | 10 | 2 | 28 | 959 | 1551 | 1272 | 10 | 82 | 63 | 20 | 165 | 126 | 39 | 330 | 250 | 52 | 433 | 328 | 0 | 4 | 3 | 0 | 4 | 3 | 1 | 8 | 6 | 0 | 4 | 3 | 50 | 424 | 312 | 72 | 606 | 480 |
| B Sc (Pass) | 3 | 3 | 18 | 16 | 0 | 0 | 0 | 0 | 21 | 19 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 11 | 6 | 0 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 6 | 0 | 10 | 7 | | | | |
| B Sc (Hons) | 101 | 147 | 238 | 128 | 1084 | 4 | 10 | 4 | 4 | 247 | 238 | 62 | 33 | 2 | 90 | 47 | 2 | 86 | 45 | 2 | 80 | 42 | 2 | 1 | 1 | 0 | 5 | 3 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 150 | 80 | 4 | 176 | 93 | 4 | | |
| B Com (Pass) | 71 | 22 | 66 | 76 | 2 | 1 | 3 | 2 | 142 | 101 | 0 | 2 | 59 | 0 | 1 | 11 | 0 | 3 | 51 | 0 | 1 | 61 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 5 | 113 | 0 | 2 | 75 | | | | |
| B Com (Hons) | 88 | 89 | 223 | 53 | 7 | 3 | 2 | 4 | 200 | 99 | 4 | 32 | 25 | 8 | 11 | 18 | 1 | 57 | 60 | 0 | 11 | 31 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 5 | 89 | 88 | 8 | 22 | 52 | | | |
| B Sc Home Sc (Hons) | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 5 | 0 | | | | |
| B B A (Hons) | 77 | 90 | 36 | 15 | 4 | 1 | 1 | 4 | 118 | 110 | 22 | 45 | 9 | 18 | 37 | 7 | 11 | 22 | 4 | 9 | 18 | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 33 | 69 | 13 | 27 | 55 | 12 | | | | |
| B C A (Hons) | 23 | 26 | 20 | 13 | 1 | 1 | 6 | 2 | 50 | 29 | 7 | 15 | 1 | 12 | 13 | 0 | 1 | 18 | 1 | 1 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 8 | 35 | 4 | 13 | 23 | 2 | | | |
| B Ed | 39 | 30 | 116 | 194 | 2 | 6 | 8 | 8 | 165 | 238 | 7 | 20 | 1 | 8 | 16 | 1 | 82 | 21 | 2 | 108 | 77 | 3 | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 3 | 1 | 2 | 0 | 91 | 45 | 4 | 118 | 97 | 4 | | | | |
| B Ed (C S) | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| B S W | 2 | 2 | 23 | 24 | 1 | 0 | 0 | 0 | 26 | 26 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 13 | 8 | 3 | 18 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 9 | 3 | 20 | 3 | | | |
| B Sc (Nursing) | 0 | 4 | 3 | 23 | 0 | 0 | 0 | 0 | 3 | 27 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 1 | 0 | 18 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 20 | 7 | 0 | | |
| L L B (Regular) | 17 | 15 | 63 | 38 | 2 | 2 | 0 | 0 | 82 | 55 | 0 | 14 | 0 | 0 | 13 | 0 | 0 | 55 | 0 | 0 | 32 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 47 | 0 | | | |
| L L B (Suppl) | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | | |



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