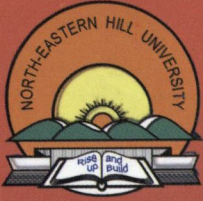


North-Eastern Hill University



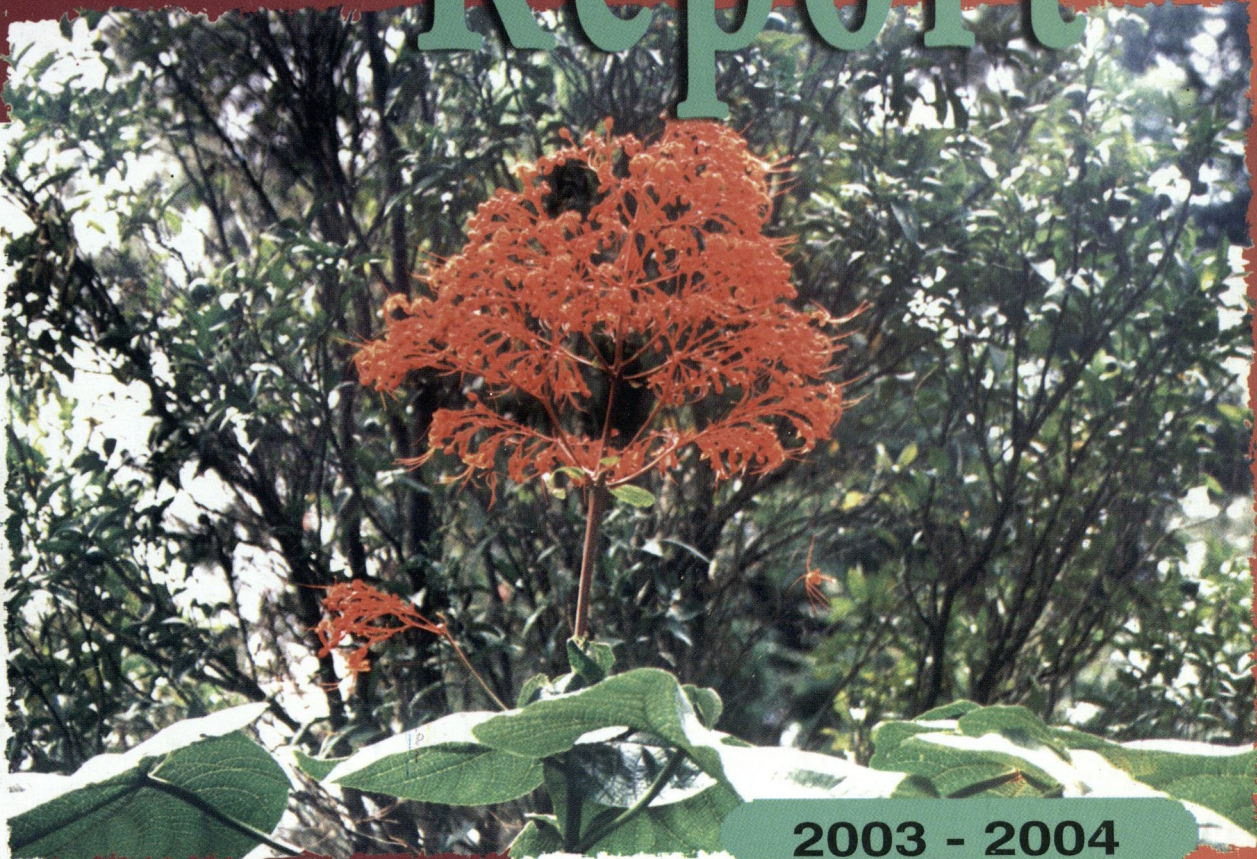
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Thirtieth Annual Report



2003 - 2004

North-Eastern Hill University

Visitor

: Dr. A.P.J. Abdul Kalam
The President of India

Chancellor

: Professor André Betéille

Chief Rector

: Shri M.M. Jacob
The Governor of Meghalaya

Vice-Chancellor

: Professor Mrinal Miri

Pro-Vice-Chancellor

: Professor S.S. Khare

Tura Campus

Registrar

: Professor D.T. Khathing

Finance Officer

: Shri J. Lungdim

Controller of Examinations

: Dr. A. Patton

Librarian

: Smt. I. Majaw

Deans of Schools:

School of Humanities and Education : Professor Sujata Miri

School of Life Sciences : Professor R. Lalthantluanga

School of Physical Sciences : Professor P. Shukla

School of Social Sciences : Professor A.K. Barua

School of Economics, Management and Information Sciences : Professor Eugene Thomas

School of Human and Environmental Sciences : Professor Surendra Singh

North-Eastern Hill University

Shillong

Thirtieth Annual Report



2003-2004

Editorial Board

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From the Vice-Chancellor's Desk

The year 2003-2004 has been another satisfying year for the University. Towards the end of the year, our building projects were close to being completed. The striking architecture of the new buildings, blending easily with their wonderful natural setting makes a forceful statement about the University's determination to be an example of growth that is wholesome and one that promotes solidarity. During the year the research publications of some of our faculty attracted worldwide attention, and we were well on the way to becoming a very active and exciting member of the global scholarly community. Another indication of this is the several ongoing research projects in which members of our faculty work in close collaboration with faculty in Universities abroad. But we also have a very specific local responsibility, which is clearly stated in the document, which as it were, brought the University into being. This document is the "The North-Eastern Hill University Act," passed by the Parliament of India in 1973. The Act lays down that in its teaching and research, the University will pay "special attention to the improvement of the social and economic conditions and welfare of hill areas of the North-Eastern



region, and in particular, their intellectual academic and cultural advancement." A mere glance at the research publications of the faculty in various disciplines during the year under report and the thrust areas for teaching in many of the departments will show that the mandate given to the University by the Act is indeed taken with utmost seriousness. In the human as well as the natural sciences we have produced a considerable mass of organised knowledge about the North-East and much of this knowledge is passed on to the students. While the process of production of knowledge will continue, our immediate aim in the future is to develop mechanisms within the University structure for effective and stable engagement with the world outside the University. This will enable us to make innovative choices in the priority areas of production of knowledge, and help

in giving direction towards translating this knowledge into practical action that will have beneficial results for all.

I take this opportunity to thank the various funding bodies such as the University Grants Commission, the Government of India, the Department of Science and Technology, the Indian Council of Social Science Research, the Department of

Biotechnology, the North-Eastern Council, the Ford Foundation, the ERNET and many others which have in large and small measures helped us in enhancing our academic life and strengthening our infrastructure facilities.



Mrinal Miri

Campus Bloom



Cover photograph by
Kynpham Sing Nongkynrih
Clerodendron at Bijni Complex, Laitumkhrach

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Introducing NEHU

North-Eastern Hill University was set up by an Act of Parliament and notified on 19 July 1973. The objectives of the university, as laid down in the Act, are “to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to pay special attention to the improvement of the social and economic conditions and welfare of the people of the hill areas of the North-Eastern region, and in particular, their intellectual, academic and cultural advancement”.

The jurisdiction of the university extended originally to the states of Meghalaya, Nagaland and the erstwhile union territories of Arunachal Pradesh and Mizoram. With the establishment of Nagaland University on 6th September 1994 the jurisdiction of NEHU over Nagaland ceased. And, with the establishment of Mizoram University in June 2001 the jurisdiction of NEHU over Mizoram also ceased. Arunachal Pradesh, meanwhile, has its own university. However, the North-Eastern Regional Institute of Science and Technology

located in Arunachal Pradesh is affiliated to NEHU.

Initially, academic departments and the administration of NEHU functioned from hired buildings in the city of Shillong. Very soon, however, it acquired two prime properties in the city, one belonging to the former Maharaja of Mayurbhanj and the other to the Rani of Bijni. The academic departments then moved to these two sites. Meanwhile, the Government of Meghalaya acquired, for the university, a substantial plot of land (measuring about 1225 acres) a little outside the city limits for setting up its permanent campus. This picturesque, gently undulating and thickly wooded land – a perfect location for the university — was a gift from the Government of Meghalaya. The survey of the land and the master plan for the university were completed during the 6th Five Year Plan and construction activities began in a modest way during the 7th Plan period. By 1991 was completed the construction of several residential quarters for the faculty, hostels for boys and girls, a ring road, a modern workshop for the university’s Scientific

Instrumentation Centre, building for the Sophisticated Analytical Instrumentation Facility, and Guest House-cum-Seminar Complex, a complex of buildings for the science departments, and with our own electricity and water supply system in place, the campus took the visible shape of a vibrant university in the making.

At the moment, all the science departments and the departments of History, Political Science, Sociology, Philosophy, Education, Hindi, and English are housed in buildings on the permanent campus. The buildings for housing eight more departments located in the city are almost ready now and we hope that they will all be able to shift to the campus during 2004. We now have Internet connectivity through our own VSAT to which all the departments located on the campus are linked. Efforts are on to enhance the range of our Internet connectivity. The Telecommunication Department has set up a fully automated telephone exchange on the campus — the first of its kind in any university in the region. Much of the developmental work on the campus in the past couple of years or so has been made possible by the generous grant that the university has received from the Government of India from its “non-lapsable pool”.

It is hoped that in about another five years or so, the university would have developed sufficient infrastructure

facilities for all its departments to move into their permanent locations on the campus. The university has also allowed – with the consent of the Government of Meghalaya – Indira Gandhi National Open University and the Indian Council of Social Science Research to set up their regional centres on its land. The Sports Authority of India has also been given permission to create modern sporting facilities in the university. Thus, in the very near future, the campus will grow into a suitably diverse, but coherent, university township. It also has the potential of being a university of striking scenic beauty.

In spite of serious constraints of communication and the general lack of infrastructure facilities in the region, NEHU has established itself as an institution of higher learning and research of very high quality. It has been able to attract persons of proven academic excellence from almost all parts of the country to serve on its faculty; and its student community is drawn not only from different parts of the North-East but also from other regions of the country. In February 1996, the university set up a campus at Tura with the departments of English, Garo and Education. Very recently the Department of Rural Development and Agricultural Production has been added to the existing three departments. NEHU now

has 24 academic departments and 4 centres of studies under 6 schools. Seven departments of the university now receive special grant from the University Grants Commission under its Special Assistance Programme. Three of the science departments also receive grants under the UGC's COSIST Programme. The Department of Science and Technology has extended financial help to four of our science departments as part of its scheme for funding infrastructure development in higher academic institutions. Some of the departments have also received grants under the UGC's Department Research Support Scheme. In addition, a huge number of research projects have been awarded to individual members of faculty notably by the CSIR, DST, DAE, UGC, Ford Foundation, DBT, MoFE, etc. The university is also the recipient of a number of endowments donated by various organizations and individuals including Dr Shankar Dayal Sharma, former President of India and Justice Krishna Aier. NEHU was also chosen for the prestigious Rajiv Gandhi Chair for research on protective discrimination. Several members of the faculty have been honoured with the highest academic awards in the country. Many of our teachers are also involved in collaborative research projects with universities in Europe and Asia. One of the basic ways in which the university

endeavours to fulfill its moral responsibility towards the local people is by focusing its attention on them in its curricular programme including research. The fulfillment of its "global" responsibility, as a member of the global academic community, is evident from the number of research publications by its faculty members in journals of high international repute, and the national and international seminars and conferences which are a regular feature of the university's academic life.

At present, there are 54 undergraduate colleges affiliated to the university including 8 professional colleges. The University Central Library whose membership includes university and college teachers, postgraduate and under-graduate honours students and members of the non-teaching staff, has a holding of over 2,00,000 books, 38,000 bound periodicals and subscribes to 316 foreign and 366 Indian current journals, perhaps the highest in the region.

Our students have done well in life after leaving the university. Many have been taken into the Central Civil Services, banking services and into the university system. Several have been awarded scholarships and fellowships by both national and foreign organizations. The percentage of our students clearing the NET, GATE and other national tests is quite high. The number of students studying for their

Master's degree and research students working for their M.Phil and Ph.D degrees is close to 1700. The undergraduate colleges affiliated to the university enroll about 19,500 students. Our faculty strength is a little over 300.

In a short span of about 30 years North-Eastern Hill University has matured into an institution with a serious academic, social and cultural agenda and a clear vision for its future growth.

School of Economics, Management and Information Sciences

The School of Economics, Management and Information Sciences comprises three departments, namely, Commerce, Economics, and Library & Information Science. It admits students to both master's and doctoral programmes. Six scholars from the Department of Library & Information Science and four from the Department of Economics have been awarded doctoral degrees during the year under report.

The faculty members of the school have produced a large number of research papers in professional journals of high repute. They have also presented papers at many regional, national and international seminars and conferences held within India and abroad. A number of faculty members have been invited as resource persons or to chair sessions at seminars, workshops and refresher courses within and outside NEHU. Four research projects have been completed in the Department of

Economics and three are under execution.

The Department of Economics organised the following programmes during the year: (a) A national seminar in collaboration with the Department of Geography, NEHU and the International Institute of Population Sciences, Mumbai on "Population and Development in North-East India"; (b) A workshop in collaboration with the Indian Statistical Institute, Kolkata on "Application of Quantitative Techniques in Economics; and (c) A UGC sponsored refresher course on "Emerging Issues and Recent Development in Economics." The Department of Library and Information Science organised the following programmes: (i) A workshop on the compilation of "Bibliographies in North Eastern India Languages", and (ii) First International Convention on Automation of Libraries in North Eastern Region in collaboration with INFLIBNET and NEHU Central Library.

A Professor in the Department of Economics has been reappointed as a member of the Meghalaya State Planning Board. He has also been

appointed as Government of India nominee to the Sikkim Government State Level Grants-in-Aid Committee (Elementary Education & Literacy).

DEPARTMENT OF COMMERCE

The department aims at imparting business education needed for creation and management of business enterprises in an emerging economy. It also aims at conducting socially relevant research. With the sanctioned strength of 8 faculty members the department has 78 students on roll at M.Com level.

Brief Statement of Activities:

The department has adopted the new M.Com syllabus from the academic session 2003-04.

Courses Conducted:

Business Policy, Statistical Analysis, Business Economics, Financial Management, Principles of

Head : N.M. Panda

Faculty :

Readers : N. M. Panda, M.Com (Utkal), Ph.D (MU), FDP (IIMA)

A. P. Pati, M.Com, Ph.D (Utkal)

V. K. Shrotryia, M.Com, Ph.D (Rohilkhand)

Lecturers : R.A.J. Syngkon, M.Com (NEHU)

A. Dash, M.Com, Ph.D (Utkal)

Student Intake:

(a) Enrolment capacity: M.Com-45

(b) Actual admission		SC/ST	Gen	Male	Female	Total
M.Com	-	35	10	21	24	45
Ph.D	-	4	4	2	6	8

Thrust Area of Research:

Accounting, Finance and Control, and Management of Small Business.

Marketing, Indian Financial System, Management of Small Business, Financial Management- II, Agricultural

Marketing, Advanced Commercial Banking, Advanced Financial Accounting, Cost and Management Accounting, Corporate Reporting, Organizational Behaviour.

Seminars/Conferences/Workshops, etc.:

Dr. N. M. Panda presented a paper titled "Entrepreneurial Success: The Associative factors in the context of a Developing Region of India" at the 3rd International Convention of Asia Scholars held at National University, Singapore on 19-22 August 2003.

Dr. A.P.Pati (1) presented a paper titled "Corporate Governance in Public Sector Banks in India" at the 26th All India Accounting Conference held on 27th - 28th December 2003, and organized by the Department of Commerce and Business Management, Mahatma Gandhi Kashi Vidyapith, Varanasi. (2) Presented a paper titled "Micro Financing and Empowerment of Poor in Meghalaya: The Need for Learning from the Experience" at the national seminar on "Rural Transformation with special reference to North-East Region" held on 27th and 28th February 2004, and organized by the departments of Commerce and Economics, Gauhati University.

Dr. Vijay Kumar Shrotryia presented a paper titled "Corporate Governance in Public Sector Banks in India" at the 26th All India Accounting

Conference held on 27th-28th December 2003, organized by the Department of Commerce and Business Management, Mahatma Gandhi Kashi Vidyapith, Varanasi.

Dr. Ashutosh Dash (1) presented a paper titled "Sustainability Reporting: A Study of Users' Perception on CSR" at the 26th All India Accounting Conference held on 27th-28th December 2003, organized by the Department of Commerce and Business Management, Mahatma Gandhi Kashi Vidyapith, Varanasi. (2) Presented a paper titled "Corporate Reporting for Sustainability: Issues & Challenges" at the 24th All Orissa Commerce Conference held on 17th and 18th January 2004, organized by Kendrapara College, Orissa. (3) Presented a paper titled "Economics of Intellectual Monopoly in a Hi-tech World" at the international seminar on "Intellectual Property Rights" held on 3-4 March 2004 organized by the Department of Commerce, Sambalpur University, Orissa.

Publications:

Dash, A. 2004. Economics of Intellectual Monopoly in a Hi-tech World. *Excellence*, 1(1).

Panda, N. M. 2003. Marketing Management in Small Service Enterprises: A Case Study of Hotel Industry in Nagaland. *SEDME*, 30(2): 55-70.

Panda, N. M. 2003. Disaster Management: Human and Technological Interface. In B. P. Sahu and J. Mawthoh (ed) *Disaster Management* PERC, Series-XVIII. Shillong: Unit for Adult and Continuing Education, 54-68.

Pati, A. P. 2003. Viability of RRBs as Rural Financial Institutions of India: A Micro-Level Study in the context of Liberalised Environment. *Asian Profile*, 31(6): 507-24.

Pati, A. P. 2003. Prospective Governance Problem in Demutualized Stock Exchanges of India: Issues and Prescriptions. *NSE News*, October Issue, 8-13.

Pati, A. P. 2003. Effectiveness of EDPs in Northeast Region: A Critical Assessment. In P. C. Tripathi and S. Moharana (ed) *Entrepreneurship Development: Policies & Strategies*. Bhubaneswar: Department of Commerce, Utkal University, 161-71.

Shrotryia, V. J. 2003. Managing Stress in Disaster-Critical Incident Stress Management Technique. In B. P. Sahu and J. Mawthoh (ed) *Disaster Management*, PERC Series-XVIII. Shillong: Unit for Adult and Continuing Education, 45-33.

Other Activities:

Dr. N. M. Panda (1) delivered two lectures on "Work Culture in Service Sector and Application of ZBB in Public Programme" on 10th and 15th of

September 2003 at the Department of Economics, NEHU, Shillong. (2) Delivered 8 talks covering identification and conversion of prospects, customer sensitive communication, creation of loyal customers, measurement of customer satisfaction and benchmarking in a training programme on "Customer Relationship Management" organized by Sub-Zonal Training Institute (Unit of National Academy for Training and Research in Social Security), Shillong during 28-30 October 2003. (3) Delivered a lecture on "Audit Risk and Compliance Testing" at the workshop on "Special Course on Statistical Sampling for SOs, Sr Au Os etc" held at the Regional Training Institute (IA & AD) Shillong, on 17th and 18th March 2004. (4) Participated in the national seminar on "Rural Transformation with special reference to North-East Region" held on 27th and 28th of February 2004, organized by the departments of Commerce and Economics, Gauhati University. (5) Participated in the seminar on "Tourism: A Tool for Conservation, Employment generation and Preservation of Cultural Heritage" organized by the Department of Tourism, Govt. of Meghalaya at Shillong on 22nd September 2003.

Dr Vijay Kumar Shrotryia (1) acted as resource person for a special course on "Personnel Management and Organization Behaviour for SOs,

Sr Au Os etc” held at the Regional Training Institute (IA & AD) Shillong, and delivered lectures on “Organizational behaviour approaches, effective Communication, Interpersonal Relationship, ego hassles, self sacrifice etc” and “Effective Time management and Managing Stress” from 28.07.03 to 31.07.03. (2) Acted as a resource person for a refresher course for Economics teachers at the Department of Economics, NEHU, Shillong, and delivered a lecture on “Disinvestment Policy in India” on 16.09.03. (3) Acted as resource person for a Short Term Certificate Course on Disaster Management organized by Unit for Adult and Continuing Education, NEHU, Shillong, and delivered a lecture on “Stress Management in Disaster” on 25.09.03. (4) Was a resource person for a workshop on “Special Course on Statistical Sampling for SOs, Sr Au Os etc” held at the Regional Training Institute (IA & AD) Shillong, and delivered a lecture on “Auditing in Computerized Environment” on 16th March 2004. (5) Delivered two lectures

on Accounting for Human Potential at Invertis Institute of Management Sciences, Bareilly UP on 29 January 2004. (6) Delivered a lecture on Corporate Governance at the Faculty of Commerce, Bareilly College, Bareilly on 2nd February 2004. (7) Was appointed as Visiting Fellow at the Department of Commerce, Mizoram University from 27th October to 9th November 2003.

R.A.J. Syngkon participated in the workshop on “Quantitative Analysis in Economics with special reference to North-East India” organized by the Economic Research Unit, ISI, Kolkata in collaboration with the Department of Economics, NEHU, Shillong and held at NEHU, on 8th - 13th March 2004.

Dr. A. Dash (1) attended the 8th Orientation Programme conducted by Sambalpur University from 3rd February to 1st March 2004. (2) Acted as a resource person for a special course on “Sampling Audit for SOs, Sr Au Os etc” held at the Regional Training Institute (IA & AD) Shillong on 15.03.04 and 16.03.04.

DEPARTMENT OF ECONOMICS

The Department of Economics, established in 1974, is now a department in the School of Economics, Management and

Information Sciences. The main objective of this department has been to impart socially relevant education at post-graduate level by a judicious mix

of empiricism and theory. The courses of study and research offered in the department have been designed to meet this objective.

The department has given adequate coverage to Northeastern region in its teaching and research programme. Its M.A. students take a

compulsory course on the region and Environmental Economics. The courses of study in the department have been revised as per the UGC guidelines. An adequate exposure to quantitative techniques is compulsorily given to all students.

Head : Prof. N. Srivastav

Faculty with specialisation:

Professors : S.K. Mishra, M.A. (Bhagal), Ph.D. (IIT, Kharagpur)
Econometrics, Applied Econometrics; Statistics; Regional Economics.

N. Srivastav, M.A. (Rajasthan), Ph.D. (IIT, Kanpur)
Mathematical Economics; Industrial Economics;
Environmental Economics; Economics of Planning and Development

E.D. Thomas, M.A., Ph.D. (NEHU) Macroeconomics;
International Economics; Rural Economics.

Readers : A. Dubey, M.A. (BHU), Ph.D. (IIT, Bombay)
Macroeconomics, Indian Economics; Development Economics; Econometrics; Statistics.

B. Mishra, M.A., Ph.D. (Utkal) Public Finance; Political Economics; Labour Economics.

Gurudas Das, M.A., Ph.D (North Bengal) Indian Economy;
Development Economics; International Trade Theory.

U.K. De, M.Sc., Ph.D. (Burdwan) Theoretical Statistics &
Econometrics; Macroeconomic Policy; Agricultural Economics; Environmental Economics.

P. Nayak, M.A. (Utkal), Ph.D. (IIT, Kharagpur) Mathematical Economics; Development Economics; Microeconomics.

B. Panda, M.A. (Utkal), Ph.D. (Utkal) Economics of Growth & Development; Economics of Human Resources.

Lecturers : Orestes J. Kharपुरi, M.A. (NEHU) Microeconomics;
Quantitative Economics.

W. Tariang, M.A. (NEHU) Indian Economics; Agricultural Economics.

S. Umdor, M.A. (NEHU) Industrial Economics; Indian Economics; Development Economics and Planning.

P.S. Suresh, M.A. (Tirupati), Ph.D (Hyderabad) Industrial Economics; Mathematical Economics.

Student Intake:

a)	Enrolment capacity	M.A.	-	55
		M.Phil	-	20
		Ph.D.	-	20

(b)	Actual admission:	SC	ST	Gen	Male	Female	Total	
		M.A	-	45	10	23	32	55
		Ph.D.	-	9	5	5	9	14

Number of students and research scholars receiving financial aid:

M.A.: 8 (NEHU)

Ph.D.: 1 (State Scholarship, Manipur)

Number of students and research scholars from NEHU and outside NEHU:

M.A.: NEHU - 50; Outside NEHU - 5

Ph.D.: NEHU - 12; Outside NEHU - 1

Number of students from Meghalaya and from outside Meghalaya:

M.A.: Meghalaya - 41; Outside Meghalaya - 14

Ph.D.: Meghalaya - 11; Outside Meghalaya - 2

Thrust Area of Research:

Economics of Agriculture, Economics of Rural Development, Econometrics, Economics of Health, Economics of Education and Manpower, Economics of the North-Eastern Region, Economics of Energy and Transport, Quantitative

Economics, Industrial Economics, Monetary Economics, Public Economics, Regional Planning, Urban Economics.

The department proposes to include the relatively newly developing fields of study in Economics in the curriculum at post-graduate level such

as Economics of Social Sector, Economics of Gender, Economics of Infrastructure, Economics of Law, etc. This effort may further strengthen the teaching in the department. The department is also encouraging research in these fields of study with special reference to north-eastern region of India.

Degrees Awarded:

Ph.D

1. Zumomo Ovung, "Political Economy of Tax Effort and Expenditure in Nagaland". Supervisor: Dr. B. Mishra.

2. Emilius Nongbri, "Growth Pattern and Determinants of Public Expenditure in Meghalaya." Supervisor: Dr. B. Mishra.

3. M. Libanthung Ngullie, "Quality of Life: A Study on Dimapur and Its Periphery". Supervisor: Prof. S.K. Mishra.

4. Kevizakie Rio, "Private Schooling Industry: A Survey in Kohima Town of Nagaland". Supervisors: Prof. S.K. Mishra and Dr. B. Mishra.

Courses Conducted (M.A./M.Sc.):

Political Economy; Macro-Economic Analysis-I; Mathematics for Economists; Techniques of Statistical Analysis; Macro-Economic Analysis-II; Micro-Economic Analysis-I; Public Economics; Economics of Growth and Development; Micro-Economic Analysis-II; International Trade; Indian

Economic Policy; Economics of Environment and Social Sector-I and II.

Optional Papers: Monetary Economics-I; Monetary Economics-II; Theories of Industrial Economics; Industrial Organization in India; Econometrics-I; Econometrics-II; Computer Applications in Quantitative Economics-I; Computer Applications in Quantitative Economics-II; Economics of Agriculture-I; Economics of Agriculture-II; Labour Economics-I; Labour Economics-II; Demography-I; Demography-II; Economics of Gender and Development-I; Economics of Gender and Development-II; Economics of Infrastructure-I; Economics of Infrastructure-II; Economics of Law-I; Welfare Economics-I; Welfare Economics-II; Economy of North-Eastern Region; Budgetary Theory and Practice.

The department introduced a few changes in its MA syllabus in order to revise and update the structure and content of the courses. These courses are revised on the basis of the UGC Model Curriculum circulated by the University Grants Commission, New Delhi. The teaching of the revised courses began in July 2003.

Seminars/Conferences/Workshops:

Organised:

(1) The department along with the Department of Geography, NEHU,

Shillong, collaborated with the International Institute of Population Sciences, Mumbai in organizing a 3-day national seminar on "Population and Development in North-East India" on 25-27 February 2004.

(2) The department also organized a weeklong workshop on "Application of Quantitative Techniques in Economics in collaboration with the Economic Research Unit, Indian Statistical Institute, Kolkata from 8th to 13th March 2004.

Attended:

Prof. N. Srivastav (1) presented a paper titled "Poverty, Gender Discrimination and Education Security: Development Experience from N.E. India" (Co-author: A. Dubey) at the national seminar on "Quest for Peace and Development in N.E. India" organized by the Department of Economics, Tripura University, Agartala and sponsored by the Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata on 19-20 February 2004. He also chaired the 3rd session of the seminar on 20 February 2004. (2) Presented a paper titled "Poverty, Inequality and Status of Women: Some Evidences from N.E. Region" at the workshop on "Application of Quantitative Techniques in Economics" organized by the Department of Economics, NEHU, Shillong in collaboration with the Economic Research Unit, Indian

Statistical Institute, Kolkata on 10th March 2004.

Dr. A. Dubey (1) presented a paper titled "Levels and Determinants of Hunger and Poverty in Urban India during the 1990s" (with Anil Deolalikar) at the International Urban Research Symposium organized by the World Bank at the World Bank, Washington DC on December 15-17, 2003. (2) Presented a paper titled "Extreme Deprivation in Remote Areas in India: Social Exclusion as Explanatory Concept" (with Arjan de Haan) at the international conference on "Chronic Poverty" organized by the Chronic Poverty Research Center at the University of Manchester, Manchester, April 7-9, 2003. (3) Delivered a lecture on "Quantitative Analysis of Consumption and Poverty with Special Reference to North-Eastern States" at the workshop on "Quantitative Analysis in Economics" organized by the Department of Economics, NEHU, Shillong and the Indian Statistical Institute, Kolkata, March 8-13, 2004.

Dr. G. Das (1) presented a paper titled "Identity and Autonomy in India's Northeast: The Constitutional Framework" at the seminar on "Constitutional Provisions of Autonomy - A Look into Situation of the East and the Northeast", organized by the Mahanirban Calcutta Research Group and the International Centre for Ethnic

Studies, Colombo, held at Shillong, on April 11-12, 2003. (2) Presented a paper titled "Agreement on Agriculture (AoA) and its implications for Northeast India" at the seminar on "Food Security in India's North-East", organized by North Eastern Social Research Centre, Guwahati and Oxfam Trust India, New Delhi, and held at Guwahati on August 1-2, 2003. (3) Presented a paper titled "Land: Factor Immobility Vs. Market-led Growth in North-East India" at the seminar on "Society, Polity and Economy in North-East India: Agenda for 21st Century" organized by ICSSR-NERC, held at Shillong on August 21-22, 2003. (4) Presented a paper titled "Border Trade in India's Northeast: Theory and Practice" at the seminar on "Challenges of Development in North-East" held at Shillong on October 21-23, 2003, and organized by ICSSR-NERC, Shillong. (5) Presented a paper titled "Sino-Indian Border Trade for Frontier Development: The Case of India's Northeast and China's Southwest" at the seminar on "Facilitation of Trade and Transport Cooperation between India and China" organized by South Asia Research Society at Kolkata on November 27-28, 2003.

Dr. B. Mishra (1) presented a paper on "Political Economy of Public Expenditure Growth in North-Eastern States of India: A Case Study of Nagaland" at the 3rd

International Convention of Asian Scholars, held in Singapore on August 19-22, 2003. (2) Presented a paper titled "Limits of Micro Credit for Rural Development: A cursory Look" (with Dr. P. Nayak) at the national seminar on "Rural Indebtedness in North-East India - Pre and Post Liberalization Scenario" held on September 24-25, 2003, organised by Department of Economics, Dibrugarh University.

Dr. U.K. De presented a paper on "The Structural change and Industrial progress in North-East India in relation to its condition of Resources" at the seminar on "Structural Change & Strategy of Development: Resource-Industry Linkages in North Eastern Region" held on 20-21 March 2003 at NEHU, Shillong, organised by ICSSR-NERC, Shillong.

Publications:

De, U. K. 2003. *Economics of Crop Diversification*. New Delhi: Akansha Publishing House.

De, U. K. 2003. Changing Cropping System in Theory and Practice: An Economic Insight into the Agrarian West Bengal. *Indian Journal of Agricultural Economics*, 58(1): 64 - 83.

De, U. K. 2003. Economic Incentive and Environmental Management: A Study of Forestry in North-East India. In Zahid Husain (ed) *Environmental Issues of North East*

India. New Delhi: Regency Publications, 170 - 188.

De, U. K. 2004. Food Security and PDS in Tripura: A Policy Intervention. In A. Banerjee (ed) *Food Security and Public Distribution System Today: Failures and Successes*. New Delhi: Kanishka Publishers, 348 - 367.

De, U. K. 2004. Status of Education in North-East India: Some Reflections. In B. Lyndem and U.K. De (ed) *Education in North East India: Experience and Challenge*. New Delhi: Concept Publishing House, 5-21.

De, U. K. and B. Ghosh. 2003. Women and Development in Rural India. In B. Datta Ray and G. Das (ed) *Dimensions of Rural Development in North-East India*. New Delhi: Akansha Publishing House, 244 - 259.

De, U. K. and B. Ghosh. 2003. Leadership and the Performance of Panchayat in Rural Development: An Experience from Tripura. *Man & Development*, 25(4): 135 - 148.

De, U. K. and B. Ghosh. 2004. Status and Empowerment of Women vis-à-vis Development and Welfare. In U.K. De and B.Ghosh (ed) *Issues on Empowerment of Women*. New Delhi: Mohit Publication, 1 - 16.

De, U. K. and B. Ghosh. 2004. Empowerment of Women. In U.K. De and B.Ghosh (ed) *Issues on Empowerment of Women*. New Delhi: Mohit Publication, 109 - 122.

De, U. K. and B. Ghosh. 2004. *Issues on Empowerment of Women*. New Delhi: Mohit Publication.

De, U. K. and B. Lyndem. 2004. *Education in North East India: Experience and Challenge*. New Delhi: Concept Publishing House.

Dubey, A. 2003. Poverty and Hunger. In Bibek Debroy and Laveesh Bhandari (ed) *District Level Deprivation in the New Millennium*. Delhi: Konark Publishers, 22-26.

Dubey, A. and L. Bhandari. 2003. District Level Poverty and Hunger. *RGICS Working Paper*. New Delhi: Rajiv Gandhi Institute for Contemporary Studies.

Dubey, A. and N. Datta Gupta. 2003. Poverty and Fertility: An Instrumental Variable Analysis on Indian Micro Data. *Working Paper No. 3, / 2003*, Department of Economics, Centre for Labour Market, Aarhus School of Business, Denmark.

Dubey, A. and N. Srivastav. 2003. Regional Disparities in Poverty Incidence and Levels of Living in India. In A. C. Mohapatra and C. R. Pathak (ed) *Economic Liberalization and Regional Disparities in India*. Shillong: Star Publishing House, 42-75.

Dubey, A. and N. Srivastav. 2003. Unemployment in North-East India: Some Issues. In A. C. Mohapatra and C. R. Pathak (ed) *Economic Liberalization and Regional Disparities in India*. Shillong: Star Publishing House, 208-220.

Dubey, A. and O. Kharpuri, 2003. Hunger and Poverty in North-Eastern States: Implications for Food Security. In S. M. Dev, et al (ed) *Towards a Food Secure India: Issues and Policies*. New Delhi: Institute for Human Development, 157-169.

Dubey, A., et al. 2003. Socioeconomic Segmentation and Labour Mobility: Evidence from Northeastern Region. *Labour and Development*, 9(2): 140-153.

Dutta-Ray, B. and G. Das (ed), 2004. *Dimensions of Rural Development in North-East India*. New Delhi: Akansha Publishing House.

Panda, B. 2003. Rural Industrial Employment in Arunachal Pradesh. In B. Datta-Ray and Gurudas Das (ed) *Dimensions of Rural Development in North-East India*. New Delhi: Akansha Publishing House, 113-119.

Srivastav, N. 2003. Intersectoral Linkages in the Economy of Uttar Pradesh: A Graph Theoretical Approach. In S. Singh, et al. (ed) *Environment, Locational Decisions and Regional Planning*. Shillong, The Geographical Society of North-Eastern Hill Region, 23-130.

Research Programmes/Research Projects:

Completed:

Dr. A. Dubey along with Ms. Veronica Pala completed a project on

“Disparities in Consumption and Poverty among Different Social Groups in India” and submitted to North-Eastern Hill University, Shillong (for onward transmission to the Rajiv Gandhi Foundation, New Delhi). The project was commissioned by North-Eastern Hill University, Shillong. Cost of the project was Rs.20, 000/-.

Dr. A. Dubey along with Dr. S.C. Katiyar of the Meghalaya Pollution Control Board completed Phase-I of the project on “Study and Evaluation of Environmental and Socio-Economic Impacts of Coal Mining in Jaintia Hills District of Meghalaya-Part I” and the report submitted to the Central Pollution Control Board, New Delhi. This is a joint project being carried out in collaboration with Meghalaya State Pollution Control Board, Shillong. The cost of the project is Rs.9, 00,000/-.

Dr. U.K. De submitted a commissioned research paper titled: “The Structural change and Industrial progress in North-East India in relation to its condition of Resources” to ICSSR - NERC as a part of the study on “The Structural Change and Strategy of Development: Resource - Industry Linkages in North Eastern Region” initiated by ICSSR - NERC, Shillong. Funded by ICSSR-NERC - Rs 10,000.00.

Dr. B. Panda completed the project “A Comparative Study of Rural Non-Farm Employment in Thailand and

India” funded by the Asian Scholarship Foundation. The project cost is 18,500 US \$.

Ongoing:

Dr. B. Mishra is currently working on a minor research project on “Problem of Tax Efforts and Variations in Tax Responsiveness in India: Pilot Study in respect of North-Eastern States”. Funded by NEHU. The project cost is Rs.45,000/-.

Dr. U. K. De associated himself as co-investigator with the project on “Process of Empowerment of Women in Rural Areas: Case Studies in Two North-Eastern States” in Sociological Research Unit, Social Science Division, Indian Statistical Institute, Kolkata. Period: 2004-2006. Funded by ISI, Kolkata. Amount: 2 Lakh (Approx.).

Dr. B. Panda is currently working on a minor research project on “Urban Informal Manufacturing Sector in a Tribal Economy - A Case Study of Arunachal Pradesh” funded by the UGC (NER), Guwahati. The project cost is Rs.50,000/-.

Academic/Professional Collaborations:

Dr. A. Dubey (i) was invited to visit the School of Development Studies, University of East Anglia, Norwich, U.K. on May 10-23, 2003 and again on January 5-27, 2004. Through these visits a collaborative work with

Professors Richard Palmer-Jones, Ashok Parikh and Kunal Sen on “Growth and Poverty in India and Bangladesh” has already started. The main focus of this work is on rural poverty in Bangladesh and the eastern region of India. (ii) Started collaboration with Professor Nabanita Datta Gupta, Aarhus Business School, Aarhus University, Denmark to work on “Health and Labour Market Interface in India”. (iii) Visited Queen’s University, Belfast, U.K., and started collaborative research on “Urban Growth and Poverty” with Dr. M. Satish Kumar of Queen’s University and Dr. Laveesh Bhandari of Indicus Analytics, New Delhi. They are now working on “Poverty, Inequality and Unemployment in Urban Sector in India”.

Honour/Award/Recognition:

Dr. B. Panda was awarded an Asia Fellows Award by the Asian Scholarship Foundation, Bangkok to undertake a research on “A Comparative Study of Rural Non-Farm Employment in Thailand and India” and in this connection he was affiliated as a visiting scholar with the Asian Institute of Technology, Bangkok and Thammasat University, Bangkok for a period of 9 months from 6.1.03 to 5.10.03.

Other Activities:

The department organized a UGC sponsored refresher course in

Economics on "Emerging Issues and Recent Development in Economics" from 27th August to 16th September 2003. Dr. B. Mishra, Reader in Economics, was the Convener and Course Coordinator of this refresher course.

Prof. E.D. Thomas has been reappointed as a member of the Meghalaya State Planning Board. He attended the two-day seminar on "Women's Development through Empowerment in Meghalaya" organized by the Unit for Adult and Continuing Education, NEHU, Shillong on 23-24 March 2004 and chaired the 4th academic session.

Dr. A. Dubey (1) presented a paper titled "Social groups and Poverty in Orissa" at the Naba Krishna Chaudhury Institute for Development Studies, Bhubaneswar on October 30, 2003. (2) Visited the Department for International Development, British High Commission, New Delhi and presented a paper titled "Quantitative Analysis of Social group Disparities in India" on May 23, 2003. (3) Visited the School of Geography, Queen's University, Belfast, U.K. and presented a paper titled "City Size and Poverty in Indian States" on May 6, 2003. (4) He attended a training programme on Environmental Statistics as a Resource Person and delivered a lecture on "Natural Resources and Economic Development" on

September 27, 2003. The programme was organized by the Centre for Environmental Studies, NEHU Shillong during September 23-28, 2003, and sponsored by the Central Statistical Organisation, Ministry of Statistics and PI, Government of India, New Delhi. (5) He acted as a resource person (discussant) at the national seminar on "Population and Development in North-East India" organized by the International Institute for Population Sciences, Mumbai, Department of Economics and Department of Geography, North-Eastern Hill University, Shillong, February 25-27, 2004. He was also invited to write policy papers for national and international institutes and agencies. (1) A paper on "Quantitative Analysis of Social Group Disparities in India: Social Exclusion and Poverty" was prepared for the Department for International Development, British High Commission, New Delhi. The paper was to be used as background paper for finalizing Country Assistance Programme of the DFID. (2) Two papers - "Poverty and Hunger MDG for India: A Disaggregated Analysis (1983-2000)" and "Analysis of Nutritional Intake and Adequacy in regions of India, 1993/94 and 1999/00" - were invited by the World Bank, New Delhi, during 2003 as background papers for "Attaining Millennium Development Goals in India: How Likely and What will It Take?" (3)

A paper on "Investing in Youth in India" (with Laveesh Bhandari and D. B. Gupta) was invited by the World Bank, New Delhi during 2003 as background paper for 2004 workshop on "Investing in Youth". (4) A paper on "Labour Profile of North-Eastern States" (with Veronica Pala) was submitted to the V. V. Giri National Labour Institute, New Delhi, 2003 as background paper for Indian Labour Profile. He visited the following universities and institutions: (1) Overseas Development Group, School of Development Studies, University of East Anglia, Norwich, U. K. as Senior Visiting Fellow on May 11 - 21, 2003 and also on January 5-21, 2004. (2) School of Geography, Queen's University, Belfast, U. K. on April 11 - May 10, 2003 as Senior Visiting Fellow. (3) The World Bank (New Delhi office) as Visiting Researcher during January- February and June - July 2003.

Prof. N. Srivastav (i) attended the one-day seminar on "Impact of Globalisation in India with reference to North-East India" organized by Shillong Commerce College, Shillong on November 22, 2003 and presented the keynote address on the theme. (ii) A three-day national seminar on "Population and Development in North East India" organized by the International Institute of Population Sciences, Mumbai, at NEHU, Shillong on 25-27 February 2004 and acted as resource person/discussant in the 3rd

session of the seminar on "Development Issues in North East India" held on 26 February 2004. (iii) A two-day seminar on "Women's Development through Empowerment in Meghalaya" organized by the Unit for Adult and Continuing Education, NEHU, Shillong on 23-24 March 2004. Chaired the 3rd academic session on "Women and Legal Awareness". He also delivered four lectures on "Externalities, Information Technology and Asymmetric Information" to the participants of the UGC refresher course organized by the Department of Economics, Mizoram University, Aizawl on 27-28 May 2003.

Dr. G. Das delivered lectures on (i) "Nature and Scope of Social Science Research" in the "Orientation Course on Research Methodology for the Faculty of Social Sciences of North Eastern Zone" at Tripura University, Agartala, organized by the National Institute of Public Cooperation and Child Development (NIPCCD) on November 24, 2003. (ii) "Economic Development: A Framework for North Eastern Region" at the seminar on "Development Plan for North Eastern Region: Exploring Options and Possibilities", organized by NEHU and Department of Development of North Eastern Region, GOI, and held at NEHU on December 11-12, 2003. (iii) Delivered two lectures on "Research Enterprise in Economics" at the

workshop on "Social Reality and Methods in Social Science Research" held at Manipur University, and organized by ICSSR-NERC, Shillong, on March 10-11, 2003.

Dr. B. Panda delivered a lecture on "Rural Non-Farm Employment in Thailand and India" on 8.9.03 in the PhD. Programme in Integrated Sciences, Thammasat University, Bangkok and on 10.9.03 in the School of Environment, Resources and Development (SERD), Asian Institute of Technology, Bangkok.

Ms. Wandinecia Tariang (i) participated in the UGC-sponsored refresher course in Economics organized by the Department of Economics, NEHU Shillong from 27 August to 16 September 2003. (ii) Attended the workshop on "Quantitative Analysis in Economics with special reference to the North-East India" organized by the Indian Statistical

Institute, Kolkata in collaboration with the Department of Economics, NEHU. Mr. S. Umdor spoke on "Alternative development for the Poorest of the Poor in the Northeast" at the seminar on "Development Plan for North Eastern Region: Exploring Options and Possibilities", organized by NEHU and Department of Development of North Eastern Region, GOI, held at NEHU on December 11-12, 2003. He also participated in the UGC-Sponsored refresher course in Economics organized by the Department of Economics, NEHU Shillong from 27 August to 16 September 2003.

Ms. W. Tariang and Mr. S. Umdor took the third semester students on a study tour to Mumbai and Goa from 18th January to 2nd February 2004. The group visited important institutes including the BSE, Tata Institute of Social Sciences and Bombay University.

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

Thrust Areas of Research:

The thrust areas of research are: Information Storage and Retrieval, Information Management, Users Needs and their Information Seeking Behaviour, Computer Applications and Information Technology, Universe of Knowledge: Structure and

Development, Measurement & Effectiveness of Information Services.

Brief Statement of Academic Activities:

Revision of curriculum based upon the recommendations of UGC Model Curriculum and future need of

the country and the region was designed and approved by the Academic Council in its meeting held in December 2003. The core of the

curriculum is IT based to face the future professional challenges to manage ever-increasing overload of information explosion through modern devices and

Head : Professor A. S. Chandel

Faculty with specialisation:

Professor : A. S. Chandel, MLISc (BHU), Ph.D (Lkn) Database Management & Organisation of Knowledge.

Readers : Veena Saraf, MLISc (Delhi), PGDCA, Ph.D (NEHU) Organisation of Knowledge & Information Retrieval
Moses M. Naga, MLISc (NEHU), Ph.D (NEHU) Library Management & System Analysis

Lecturers : Bikika Laloo, MLISc (NEHU) User Studies & Reference Sources
Paokholun Hangsing, MLISc (Delhi), PGDCA, Ph.D (NEHU) Computer applications & Database Management
Jacqueline Thabah, MLISc (NEHU) Organisation of Knowledge & Universe of Knowledge

Student Intake:

(a) Enrolment capacity

MLISc 25

PhD 15

(b) Actual admission

	SC	ST	General	Male	Female	Total
MLISc	-	23	2	8	17	25
PhD	-	2	1	2	1	3

(c) Enrolment of Students from Meghalaya and outside

Class	Meghalaya	Outside	Total
MLISc I Semester	21	4	25
MLISc III Semester	5	4	9

techniques. New curriculum includes the following current topics:

1. Digital Libraries: creation, development and management.
2. Web Designing, searching and use.
3. Information searching, retrieval, access and use.
4. Information retrieval models and search engines.
5. Knowledge organisation systems, Information Systems: Biotechnology Information Systems, Agricultural Librarianship.
6. Database design and management system with special reference to libraries, repackaging of information.
7. Networking of libraries.
8. Information marketing.
9. Information management .
10. E-Resource management.
11. E-Publishing.
12. Internet searching and its use.
13. Fundamentals of programming.
14. Library Software Packages: working and evaluation.
15. Community Information Centres (CIC).

Degrees Awarded:

Ph.D

1. Varghese J. Manathrachira, "Conjoint Analysis of Uses Preferences for Library Services". Supervisor: Prof. J. C. Binwal.

2. Tamal Kumar Guha, "Usability Assessment of Qualitative Methodology in OPAC Search". Supervisor: Dr. Veena Saraf.

3. T. Temjen, "Attitude of Library Professionals towards Information Technology and its relationship with Library Science courses". Supervisor: Dr. Veena Saraf.

4. Md. Mezbah UI-Islam, "Measuring Effectiveness of Universities Libraries: A Case Study of Bangladesh". Supervisor: Dr. Veena Saraf.

5. P. Hangsing, "Power Strategies in Inter-Personal Relationship among Indian Library Professional". Supervisor: Dr. Veena Saraf.

6. Lalhmachhuana, "Representatives of Cross-Disciplinary subjects in Information Retrieval Tools". Supervisor: Prof. J. C. Binwal.

Category-wise award of Ph.D. degree:

SC/ST	General	Male	Female	Total
- 3	3	6	0	6

Courses Conducted:

Compulsory papers: Library and Society, Organisation of Knowledge (Theory) Organisation of Knowledge (Practice), Information Services and Sources, Introduction to Information Technology, Library Management, Organisation of Knowledge: (a) Classification (b) Cataloguing (Theory), Organisation of Knowledge (a) Classification (b) Cataloguing (Practice), Programming and Software Packages, Job Diary, Universe of Knowledge: Structure and Development, Library System Analysis and Elements of Statistical Methods, Information Users and their Needs, Information Retrieval Techniques, Computer Applications in Library and Information Services, and Project Report (writing dissertation on current problems in Library and Information Science).

Optional papers: (1) Information and Literature Sources in any one of the following: (a) Humanities (b) Social Sciences (c) Natural Sciences (2) (a) Information systems and Services or (b) Management of Information Systems.

Seminars/Conferences/Workshops: Organised:

The department organized a workshop on compilation of "Bibliographies in North Eastern Indian Languages" from 1 to 5 December 2003. The workshop was

sponsored by the Central Reference Library, Kolkata. The department also collaborated in organizing the First International Convention on Automation of Libraries in North Eastern Region with INFLIBNET and NEHU Central Library. Dr. Veena Saraf was the coordinator of the workshop.

Attended:

Prof. A. S. Chandel (1) attended the First International Convention on Automation of Libraries in North Eastern Region organized by INFLIBNET on 6-7 November 2003 and presented a paper titled "Evaluation of Search Engines." (2) Acted as Rapporteur General and chaired two technical sessions of the same convention.

Dr. Veena Saraf (1) delivered two lectures on "Use of Internet and Computer Applications in Social Science Research" at the training course on "Social Reality and Methods in Social Science" organized by ICSSR-NERC at Manipur University, Imphal on 6th March 2004. (2) Presented a paper on "Building Digital Libraries" at the seminar on "Present and Future Services for the Digital Library, Searching, Linking and Meta Tags" organized by American Information Resource Centre (AIRC, Kolkata) on 1st March 2004. (3) Presented a paper on "Identifying

Information Seeking Strategies” at the seminar on “Globalisation of Library and Information Science Education” held at the Department of Library and Information Sciences, University of Madras, 21-23 November 2003, organised by IATLIS. (4) Chaired the session on “Information Technology and Teaching Techniques” at the above seminar. (5) Paper presented on “Attitudes towards Information Technology Adoption: A Study of Library Professionals in North East India” at the “PLANNER-2003” (Promotion of Library Automation and Networking in North Eastern Region) held at NEHU from 6 to 7 November 2003. (6) Paper presented on “Library Consortia and Contemporary Scenario of North Eastern Academic Libraries” at “PLANNER-2003” held at NEHU from 6 to 7 November 2003. (7) Paper presented on “Electronic Journals and Consortia Purchase: New Trends in Indian Academic Libraries” at “PLANNER-2003” held at NEHU on 6-7 November 2003. (8) Presented a tutorial on “Building Digital Libraries” to the delegates of the seminar on “PLANNER-2003” held at NEHU on 6th November 2003. (9) Delivered a lecture on “Internet and Web searching” to students of Mass Communication at CIEFL, Shillong on 12th September 2003.

Ms Bikika Laloo presented a paper on “Academic Librarian of North

East” at the “PLANNER-2003” held at NEHU from 6 to 7 November 2003. (2) Read (i) “Personal Experiences in University Teaching” and (ii) “Teaching Versus Research” at the 2nd Hawaii International Conference on Education held from 3 to 6 January 2004 at Honolulu, Hawaii.

Dr. Paokholun Hangsing (1) presented a paper titled “Library Consortia and Contemporary Scenario of North Eastern Academic Libraries” at “PLANNER-2003” held at NEHU on 6-7 November 2003. (2) Was invited as faculty to various training programmes conducted by the Sub-Zonal Training Institute of Employees Provident Fund Organisation, Shillong.

Publications:

Chandel, A. S. 2003. Evaluation of Search Engines. In T.A.V. Murthy et al (ed) *Planner 2003: Automation of Libraries in North Eastern Region: Trends, Issues and Challenges*. Ahmedabad: INFLIBNET, 371-381.

Chandel, A. S. and Veena Saraf. 2002. Studies in Information Seeking Behaviour and Use: Need for Paradigm Change. *Journal of Library and Information Science*, 27(2): 143-152.

Hangsing, Paokholun. 2003. Library Consortia and Contemporary Scenario of North Eastern Academic Libraries. In T.A.V. Murthy et al (ed) *Planner 2003: Automation of Libraries in North Eastern Region: Trends,*

Issues and Challenges. Ahmedabad: INFLIBNET, 288- 294.

Laloo, Bikika. 2003. A Survey of the College and University WWW Sites of Shillong, Meghalaya. *Library Herald*, 41(4): 312-319.

Laloo, Bikika. 2004. Personal Experiences in University Teaching. In *Proceedings of the 2nd Hawaii International Conference on Education held from 3 to 6 January 2004*. Honolulu, 2325-2327.

Laloo, Bikika. 2004. Teaching Versus Research. In *Proceedings of the 2nd Hawaii International Conference on Education held from 3 to 6 January 2004*. Honolulu, 2317-2319.

Laloo, Bikika. 2003. Academic Librarian of North East and Automation. In T.A.V. Murthy et al (ed) *Planner 2003: Automation of Libraries in North Eastern Region: Trends, Issues and Challenges*. Ahmedabad: INFLIBNET, 128-131.

Saraf, Veena. 2002. Measuring Library Effectiveness: A holistic Approach. *Journal of Library and Information Science*, 27(2): 81-107.

Saraf, Veena. 2003. Attitudes towards Information Technology adoption: A study of Library Professionals in North East India. In T.A.V. Murthy et al (ed) *Planner 2003: Automation of Libraries in North Eastern Region: Trends, Issues and Challenges*. Ahmedabad: INFLIBNET, 88-94.

Saraf, Veena. 2003. Electronic Journal and Consortia Purchase: New Trends in Indian Academic Libraries. In T.A.V. Murthy et al (ed) *Planner 2003: Automation of Libraries in North Eastern Region: Trends, Issues and Challenges*. Ahmedabad: INFLIBNET, 295-303.

Saraf, Veena. 2003. Library Consortia and Contemporary Scenario of North Eastern Academic Libraries. In T.A.V. Murthy et al (ed) *Planner 2003: Automation of Libraries in North Eastern Region: Trends, Issues and Challenges*. Ahmedabad: INFLIBNET, 288-294.

Saraf, Veena. 2004. Identifying Information Seeking Strategies. In Laxman Rao et al (ed) *Globalization of Library and Information Science Education*. IATLIS, 240-245.

Saraf, Veena (co-editor). 2003. *Automation of Libraries in North Eastern Region: Trends, Issues and Challenges*. *PLANNER-2003*. Ahmedabad: INFLIBNET.

Infrastructure Facilities Acquired:

The departmental laboratory was strengthened by adding 10 computers including server, softwares, computer furniture, scanner, laser printer, etc.

Other Activities:

Prof. A. S. Chandel was invited by Himachal Pradesh University, Shimla to prepare developmental plan

for library automation.

Dr. P. Hangsing attended a training programme on "Installation and Operation of Software for University Libraries [SOUL]" at INFLIBNET (an IUC of UGC), Ahmedabad, Gujarat from 31st July to 7th August 2003.

Prof. J. C. Binwal superannuated

from the services of NEHU in the month of September 2003 having served the university for about 25 years as University Librarian, Professor and Head in the Department of Library & Information Sciences, and later Dean of School of Economics, Management and Information Sciences.

II

School of Humanities and Education

The School of Humanities and Education is the biggest school in the university today, and naturally the volume of activities generated in the school was one of the

most commendable. The departments as well as centres remained active and productive throughout the year, as evident from the details on each of them.

DEPARTMENT OF EDUCATION

Trust Area of Research:

Educational System in North Eastern region and Environmental Education.

Degrees Awarded:

PhD:

1. Regina Thabor : "Creative thinking Ability and Attitude towards

Head : Professor A. Henia

Faculty Professors :

P. P. Gokulanathan, M.A. (Gauhati) Ph.D. (Dibrugarh)
(Mrs) K.S. Lyngdoh, M.A, (Gauhati) Ph.D. (Bda)
R. Bhattacharjee, M.A. (Gauhati) Ph.D. (NEHU)
P. K. Gupta, M.Sc, (Agra) M.Ed, (Delhi) Ph.D. Meerut
(Ms) A. Henia, M.A, (Gauhati) M.Phil (JNU) Ph.D. (JNU)
N.B. Biswas, M.A., Ph.D., Resigned in January 2004

Reader : (Mrs.) S. M. Sungoh, M.A/Ph.D. (NEHU)
K. M. Warjri, M.Ed/Ph.D. (NEHU)

Lecturer : M. Hazarika, M.Sc, (NEHU) M.Ed (Dibrugarh) Ph.D. (Dibrugarh)
(Miss) C. Nongbri, M.A./M.Ed/Ph.D.(NEHU)

Student Intake:

(a) Enrolment capacity; MA/MSc: 30 students

(b) Actual admission

ST	SC	GEN	Male	Female	TOTAL
28	2	0	3	27	30

(c) Number of students qualifying NET/GATE/SLET: 7 students

science among students of secondary schools having different organizational climates". Supervisor: Prof. M.S. Padma.

2. Esther Chinneiling : "Education of Women students in Manipur:an Appraisal". Supervisor: Prof. R. Bhattacharjee.

3. Easterborn Sutnga: "A Study of the Status & Problems of primary Education in Jaintia Hills District of Meghalaya. Supervisor : Prof. A. Henia.

Courses Conducted:

Philosophy of Education, Psychology of Education, Research Methodology and Statistics in Education, Educational Management and Change, Curriculum Development and Instruction Sociology of Education, Educational Testing and Evaluation, Environmental Education Educational Technology, Educational Systems in a Comparative Perspective, Early Childhood Education, Teacher Education, Laboratory Practical, Higher Education in India, Guidance and Counseling, Methods of Teaching at

Tertiary Level.

Study Tours/Field Trips of Students:

1. Dr. K.M. Warjri led the study tour of 3rd semester students to visit the universities and other educational institutions in Delhi, Agra and Jaipur in February 2004.

Seminars/Conferences/Symposia/ Extension programmes, etc:

Prof. K. S. Lyngdoh chaired a session during the 2-day seminar on "National Policy for the Empowerment of Women" held in Shillong on 8th and 9th March 2004, and organized by the Govt. of Meghalaya, Directorate of Social Welfare, Shillong.

Prof. P.K. Gupta chaired one academic session of the 13th Annual Conference of the North East Education Society on the theme "Higher Education in the 21st Century" organized at the Department of Education, Dibrugarh University on 19 March 2004.

Prof. A. Henia (i) was the

coordinator for the "North Eastern Regional Workshop for Monitoring institutions of the States of North East India" under SSA (non-recurring programme in collaboration with MHRD, NIEPA, NCERT) held on 29th May 2003 at Raitong Building, Shillong. (ii) Was a resource person in the Kendriya Vidyalaya Sangathan In-Service Course for PGT (Chemistry), and lectured on "Research and its implication in the institution" on 6 June 2003, held at Kendriya Vidyalaya, NEHU, Shillong. (iii) Was a resource person in the UGC sponsored refresher course in Education and lectured on "Quality Development and Teaching in higher Education institution" on 12th August 2003 at the Academic Staff College, Gauhati University, organized by the Department of Education, Gauhati University. (iv) Chaired one academic session of the two-day seminar on "Women's Development through Empowerment in Meghalaya" held on 23rd March 2004 at the Seminar Hall, Mayurbhanj complex, Nongthymmai, Shillong and organized by the Unit for Adult and Continuing Education, NEHU, Shillong. (v) Participated in the First Indian Anthropological Congress on "Indian Anthropology for the 21st Century: The Challenges Ahead," held on 25-27 March 2004 at Mayurbhanj Complex, and organised

by the Department Anthropology, NEHU, Shillong. Paper presented : "Empowerment of Women through Education".

Publications:

Gupta, P.K. 2004. *Education for Creativity: Training, Research and Implications*. New Delhi: Cosmo publications.

Henia, A. 2003. Forest Environment and community Awareness in North East India. In Z. Hussian et.al. (ed) *Environmental Issues of North East India*. New Delhi: Regency Publications, 232-237.

Henia, A. 2004. Role of Media and Prospect of Distance Education in North East India. In B. Lyndem and U.K. De (ed) *Education in North East India: Experience and Challenge*. New Delhi: Concept Publishing Company.

Funds received from agencies other than NEHU:

Rs. 1.30 lakhs from MHRD, New Delhi for Sarva Shiksha Abhiyan (SSA) Programme.

Infrastructure facilities acquired during the year:

Five computer sets were received from the university through the Dean, School of Humanities and Education.

Other Activities:

Prof. R. Bhattacharjee (1) participated in a dissemination seminar on "National Family Health Survey on NE States" organised by the North Eastern Council, Shillong in collaboration with the International Institute for Population Sciences, Mumbai and the Population Reference Bureau, Washington DC and sponsored by USAID at Hotel Polo Towers, Shillong on 1st and 2nd May 2003. (2) Acted as a resource person in the ECP conducted by IGNOU at the Regional Centre, Shillong on 31st May 2003. (3) Delivered lectures to postgraduate teachers of Kendriya Vidyalaya, NEHU, Shillong on June 2003.

Prof. K.S. Lyngdoh served as chairperson of the NAAC Peer Team for assessment of Loreto College, Calcutta University, on April 21-22, 2003; Chairperson, NAAC Peer Team for assessment of D.C.B. Girls' College, Jorhat, Assam on 6th May 2003; Chairperson, NAAC Peer Team for assessment of Nanda Nath Saikia College, Titabar, Jorhat Assam on 9th May 2003.

Prof. P.K. Gupta (1) delivered two lectures on 1st April 2003 at the UGC sponsored refresher course in Education organized by the Department of Education, Nagaland University, Kohima. (2) Delivered four lectures from 31st October 2003 to 1st November 2003 at the UGC sponsored refresher course in Education organized by the Department of Education, Dibrugarh University. (3) Delivered two lectures on 27th and 28th November 2003 at the UGC sponsored refresher course in English organized by the Department of English, NEHU, Tura Campus, Tura. (4) Delivered three lectures on 23rd March 2004 at the UGC sponsored refresher course in Education organized by the Department of Education, Mizoram University, Aizawl.

Dr. M. Hajarika acted as a resource person for refresher course in Education organized by the Department of Education, Dibrugarh University on 25th, 27th and 30th October 2003.

DEPARTMENT OF EDUCATION (TURA)

Thrust Area of Research:

Value Education and Special Education.

Brief Statement of Academic Activities:

The academic programmes continued normally like in the two previous years. Prof. N.B. Biswas left the department and joined the Department of Education, NEHU,

organized one workshop. Faculty member(s) delivered lectures in refresher courses and participated and presented papers at conferences and workshops in and outside NEHU.

Courses Conducted:

The department is conducting the following courses based on the UGC Model Curriculum – 2002 since August 2003:

Head : Professor P.K. Gupta (up to Feb. 03, 2004)
Benudhar Chinara (continuing from Feb 04, 2004)

Faculty :

Professors : P.K. Gupta, M. Ed (Delhi), Ph.D. (Meerut)
N.B. Biswas, M.Ed/Ph.D. (Baroda)

Reader : Benudhar Chinara, M.A./ M.Phil./Ph.D.(Punjab)
Value Education, Educational Management

Lecturers : Nikme S.C. Momin, M.A (NEHU) Educational Psychology,
Value Education, Environmental Education
S. C. Subudhi, M.A./ M.Phil/ Ph.D. (Kuruk) Educational
Measurement and Statistics, Primary Education, Educational
Technology.
Madhusudan J.V., M.Ed/ Ph.D. (Gulbarga) Primary Education
and Early Childhood Education, Sociology of Education,
Higher Education.

Shillong. Towards the end of February 2004, Prof. P. K. Gupta was transferred to the Department of Education, NEHU, Shillong. The department arranged one extension lecture and

1st Semester: Philosophy of Education, Psychology of Education, Research Methodology and Statistics in Education, Educational Management and Change.

Visiting Professor:

Dr. A. Pusparajan, Head, Department of Inter-religious Relation, Madurai Kamraj University, Madurai visited the department and delivered a talk on "value crisis" to the faculty and students on March 24, 2004.

Student Intake:

(a) Enrollment capacity: M.A. = 22

(b) Actual Admission:

	SC.	ST.	General	Female	Male	Total
M.A. 1 st Semester: -		21	01	19	03	22
M.A. 3 rd Semester: -		22	-	17	05	22

No. of students and research scholars :

		NEHU	Outside NEHU
M.A. Students.	I Semester	22	Nil
	III Semester	22	Nil
		Meghalaya	Outside Meghalaya
	I Semester	21	1
	III Semester	22	Nil

2nd Semester: Curriculum Development and Instruction, Sociology of Education, Educational Testing and Evaluation, Environmental Education.

3rd Semester: Educational Technology, Educational Systems in a Comparative Perspective, Early Childhood Education, Education for the Gifted and the Creative.

4th Semester: Laboratory Practical, Higher Education in India, Guidance and Counseling, Education for the Physically and the Cognitively

Challenged.

Study Tour:

Dr. S.C. Subudhi guided the study tour of 1st and 3rd Semester students to visit different educational institutions in Delhi, Amritsar, Shimla, Chandigarh, Agra, Mathura and Brindaban during December 12-24, 2003.

Seminar/Conference/Workshops:

(a) Organized:

The department organized a workshop on "Value-Oriented

Education” for secondary and higher secondary school teachers of Garo Hills on March 27, 2004. In this workshop, Benudhar Chinara acted as Director, Nikme S.C. Momin as Coordinator, and S.C. Subudhi as treasurer and Madhusudan, J.V. as member.

(b) Attended:

Dr. Benudhar Chinara participated and presented two papers titled “An Approach to Value-Oriented of Personnel in Institutions of Human learning”, and “Schema of a life-long learning scheme for Human Values” at the 42nd international conference on “Life-long learning” organized by Indian Section of World Education Fellowship, Gujarat Research Society, Mumbai, January 4-9, 2004. He presented a paper on “Techniques and Strategies for Inculcation of Values” at the workshop on “Value-Oriented Education” organized by the Department of Education, NEHU, Tura Campus, Tura, on March 27, 2004.

Publications:

Chinara, Benudhar. 2003. Elementary and Secondary Teacher Education: The Case of Mizoram. In P.S. Balasubramaniam and V.E. Punithakumar (ed) *Teacher Education in India: A Praxis Reader*. Chennai: St. Christopher’s College of Education, 131-144.

Subudhi, S.C. 2003. Is Education

a Discipline? *The Educational Review*, 46(6).

Subudhi, S.C. 2003. A study of creativity among High School students in relation to their Anxiety and level of Aspiration. *Journal of Education and Psychology*, 61(2): 12-16.

Other Activities:

Dr. Benudhar Chinara delivered (i) three lectures on “Leadership development and emotional intelligence” at the refresher course on “Quality Perspectives in Higher Education” conducted by the Department of Education, Nagaland University at Kohima on April 1 and 2, 2003; (ii) four lectures on “Leadership and value Orientation in educational management” at the refresher course conducted by the Department of Education, Dibrugarh University at Dibrugarh on October 27 and 28, 2003; and (iii) two lectures on “Role of values in language education research and professional ethics of language education teachers” at the 2nd refresher course conducted by the Department of English, NEHU, Tura Campus at Tura on December 1 & 2, 2003.

Mrs. Nikme S.C. Momin and Dr. Madhusudan J.V. participated in an orientation programme organized by the UGC Academic Staff College, H.P. University, Shimla from October 27 to November 22, 2003 and obtained Grade ‘A’.

Dr. S.C. Subudhi participated in an orientation programme organized by the UGC Academic Staff College, Aligarh Muslim University, Aligarh from August 5 to September 4, 2003 and obtained Grade 'A'.

Dr. J. V. Madhusudan participated in a Banner Course on "Training Methods and Communication Skills"

organized by the Centre for Human Resource Development, NIRD, Hyderabad on December 8-17, 2003. He was conferred Ph.D. degree in February 2004 by Gulbarga University, Gulbarga on the topic "Determinants of Achievement in Minimum levels of learning at Primary stage".

DEPARTMENT OF ENGLISH

Thrust Area of Research:
20th Century Literature.

Brief Statement of Academic Activities:

A one-day seminar on value

education was organized in the department on 17 March 2004 by Dr. S. Bhattacharjee, was chaired by Professor N. Hasan and inaugurated by Professor S. Miri, Dean, School of Humanities and Education, NEHU,

Head : Professor R.P. Sharma

Faculty :

Professors : N. Hasan, M.A. (Ald.), Ph.D. (Manchester)
E.N. Lall, M.A.(Patna), Ph.D. (Southern Illinois)
T. Ao, M.A. (Gau.), Ph.D. (NEHU)
R.P. Sharma, M.A., Ph.D. (Bihar)

Readers : S.N. Singh, M.A., Ph.D. (Magadh)
E. Syiem, M.A.(Delhi), Ph.D.(NEHU)
M.M. Mazumdar, M.A., Ph.D. (NEHU)

Lecturers : N. Syiem, M.A.(NEHU), M.Phil (Delhi)
N. Ganguly, M.A. (NEHU)
Ng. R. Singh, M.A. (NEHU)
U. Sewa, M.A., Ph.D. (NEHU)
M. Renganathan, M.A., Ph.D. (Madurai)
S. Bhattacharjee, M.A., Ph.D. (NEHU)

Student Intake:

a) Enrolment capacity: M.A.= 50, M.Phil = 10 and Ph.D. = Open

b) Actual admission	SC	ST	Genl.	Male/	Female	Total
M.A. I Semester:	-	46	4	4	46	50
M.A. III Semester:	1	37	12	12	38	50

Shillong. The seminar had three sessions. The first session was titled "Literature and Human Values" and the participants were Debashish Goswami, D. Rakesh and Sukanya Choudhury. The second session was titled "Values in Shakespearean Tragedy" and the participants were Kiran Khaidem, Surajit Sen and Sudipa Chakraborty. And the third session was titled "Conflict of Values in Higher Education" and the participants were Pranjal Sangma and Janice Mawlong.

Degrees Awarded:

Ph.D.

1. Utpala Sewa, "Hardy's Integrated Vision: The Convergence of Time in His Poetry". Supervisor: Professor E.N. Lall.

2. Dhira Bhowmick, "Writing the Other: A Study of Race, Gender and Marginality in Toni Morrison's Fiction". Supervisor: Professor K.C. Baral & Dr. C.K. Naik as Jt. Supervisor.

3. Apeni Lotha, "The Bronte Poetry: A Fountain of Faith". Supervisor: Dr. S.N. Singh.

4. John Joy Appathara, "E. M.

Forster and The Critical Tradition". Supervisor: Professor N. Hasan.

Courses Conducted:

M.A.

1st Semester: Poetry I, Fiction I, Drama I, Literary Theory & Criticism I.

2nd Semester: Poetry II, Fiction II, Drama II, Environment & Indian Writing in English.

3rd Poetry II, Fiction III, Literary Theory & Criticism II,

Optional: American Literature I/ Commonwealth Literature.

4th Semester: Shakespeare, Drama III, Literary Theory & Criticism III.

Optional: Women's Writing/ American Literature II.

Seminars/Conferences/Symposia:

Prof. T Ao (i) participated in the Regional Meet of Indian Poets in English, organized by the Sahitya Akademi on 4th June 2003 in Guwahati and read her poems. (ii) Participated in the Western and North Eastern Poets' Meet organized by the Sahitya Akademi in collaboration with Pahariya and Bangiya Sahitya Parishad on 26

and 27 September 2003, Shillong and read her poems. (iii) Participated in the seminar on "Narratives of North-East India: Creativity, Tradition and Interpretation" organized by Women's College, Shillong in collaboration with Katha, New Delhi and ICSSR-NERC on 6 September 2003 and presented a paper titled "Gender and Power: Some Women Centred Narratives from Ao-Naga Folklore". (iv) Participated in the seminar organized by DONER at NEHU, Shillong on 11-12 December 2003 on the theme "Development Plan for North East Region – Exploring Options and Possibilities" and presented a paper titled "The Handloom Industry of Nagaland: Problems and Prospects".

Dr. E. Syiem (i) attended the seminar on "Narratives of North East India: Creativity, Tradition and Interpretation" at Women's College, Shillong on 6th September 2003 in collaboration with Katha, New Delhi and ICSSR and presented a paper titled "The Signifying Dimensions of the Folk: A Study of *Ka Tiew Larun*". (ii) Attended the national seminar on "Revisiting Language and Literature: Key Issues" organized by the Department of English, NEHU, Tura Campus on November 3-4, 2003 and presented a paper titled "Performance and Pedagogy: The 'brave new world' of Shakespeare Studies". (iii) Attended the 1st international conference of the

Indian Society for Theatre Research in the Central University of Hyderabad on 16-18 January 2004 and presented a paper titled "Articulating Women in Mahesh Dattani's *Bravely Fought the Queen*".

Dr. Moon Moon Majumdar (1) presented a paper titled "Performance and Pedagogy: The 'brave new world' of Shakespeare Studies" at the national seminar on "Revisiting Language and Literature: Key Issues" organized by the Department of English, NEHU, Tura Campus on November 3-4, 2003. (2) Presented a paper titled "Articulating Women in Mahesh Dattani's *Bravely Fought the Queen*" at the First International Conference of the Indian Society for Theatre Research held at the University of Hyderabad on 16-18 January 2004.

Dr. S. Bhattacharjee (i) attended the national seminar on the "South Asians in the U.S.: Diasporic Experiences" at Punjab University, Chandigarh, organized by the Multiethnic Literatures of the United States, India Chapter and sponsored by the USIS, New Delhi, on 4th April 2003 and presented a paper titled "Reclaiming Identity: America and the Clash of Civilizations". (ii) Attended the regional seminar on "Narratives of NE-India" organized by Women's College, Shillong and sponsored by Katha, New Delhi and ICSSR-NERC, Shillong on 6th September 2003 and presented a

paper on "Folk Narratives of Barak Valley". (iii) Attended the seminar on "Human Rights and Its Implications in NE-India" organized by St. Mary's College, Shillong on 4 & 5 November 2003 and presented a paper on "Who is a Minority?" (iv) Attended the national seminar on "Economics of Higher Education" organized by NEHU, Shillong and sponsored by the UGC on 29th November 2003 and presented a paper titled "Conflict of Values in Higher Education". (v) Attended the national seminar on "Youth Unrest in NE-India" organized by the Youth Studies Centre, Dibrugarh University and sponsored by ICSSR, New Delhi on 14th and 15th November 2003 and presented a paper on "Whither Youth Movements in NE-India?" (vi) Attended the international conference on "Scene, Space and Scenario" organized by MELUS (Multiethnic Literatures of the U.S., India Chapter), 3-5 January 2004 at IACIS (Indo-American Centre for International Studies) Hyderabad and presented a paper titled "The Text as Narrative: The Aesthetics of Ideological Production". (vii) Attended the national seminar on "Ethnic Conflicts in NE-India", organized by the Department of Political Science, Dibrugarh University and sponsored by ICSSR, New Delhi and the Maulana Azad Institute for Asian Studies, Kolkata on 16 & 17 February 2004 and presented a paper on "Ethnicity and Identity: The Hmar-

Dimasa Case". (viii) Attended the national seminar on "Contemporary Perspectives in Indian Philosophy" organized by the Department of Philosophy, Assam University, Silchar and sponsored by ICSSR, New Delhi and ICPR, New Delhi on 23-26 February 2004 and presented a paper titled "Development and Social Democracy in NE-India: Towards Ethno-Feminism".

Dr. M. Renganathan attended the Founding International Conference of ISTR (Indian Society for Theatre Research) organized by the Sarojini Naidu School of Performing Arts, University of Hyderabad from 15 to 18 January 2004 and presented a paper titled "Woman as Director: An Interpretation of Girish Karnad's *The Fire and the Rain*".

Publications:

Ao, T. 2004. Human Resource Development in Ao Society. In S. Miri (ed) *Rationality and Tribal Thought*. New Delhi: Mittal Publications.

Bhattacharjee, S. 2003. The Rhetoric of Otherness: Naipaul's Excursions into Islam" Lancaster University IALIC Conference site, (Lancaster, U.K) <http://www.com.washington.edu/ialic/2003/conference/abstracts.html>.

Bhattacharjee, S. 2003. Transcreating another Kali. *Economic and Political Weekly*, 38(22): 2137-2138.

Bhattacharjee, S. 2004. Dialogic Space in Art: A Reading of Goutam Biswas' *Art as Dialogue: Essays in Phenomenology of Aesthetic Experience* (Review Article). *The NEHU Journal*, 2(1): 117-125.

Bhattacharjee, S. 2004. Rites of Self and the Other: Naipaul's Construction of Muslim Identity. In K.C. Baral and P.C. Kar (ed) *Identities: Local and Global*. Delhi: Pencraft International, 190-202.

Renganathan, M. 2004. Contribution of entry "Dramatists of India". *Encyclopedia of South Asian Literature*. Michigan: Greenwood Press.

Sharma, R.P. 2003. Bapu and Baba: Adversarial Constructions of Dalit Identity. In K.C. Baral and P.C. Kar (ed) *Identities: Local and Global*. New Delhi: Pencraft International, 241-148.

Singh, S. N. 2004. *Manifestations of Love from East and West*. Delhi: Abhijeet Publications.

Singh, S. N. 2004. The Bronte Sisters as Poets of Faith. *The NEHU Journal*, 2(1).

Syiem, E. 2003. "Just one more field my child", The Hill of Woman's Death, *Ka 'Tiew Lalyngngi Pepshad'*, Myllem. In K.S. Nongkynrih and Robin S. Ngangom (ed) *Anthology of Contemporary Poetry from the Northeast*. Shillong: NEHU Publications.

Syiem, E. 2003. *U Hynniewtrep, Ka Diengiei and U Lum Sohpetbneng*: Folk Imprinting. In Jawaharlal Handoo, D.L. Kharmawphlang, S. Som (ed) *Folklore in the Changing Times*. Bhopal: IGRMS Publications.

Syiem, E. 2003. *U Manik Raitong*, Icon of Love and Creativity: An Appraisal. *The NEHU Journal*, 1(2).

Visiting Scholars/Fellows:

Jayanta Mahapatra, a renowned poet, recited some of his best poems at a meeting of students and faculty members on 6 June 2003.

Dr. D. K. Barua, former professor of English at Burdwan University, delivered two special lectures on "Ernest Hemingway" and "An Approach to Literary Theory & Criticism" on 18 and 19 August 2003.

Dr. Zilkia Janer, Assistant Professor of Spanish and Latin American Literatures, Hofstra University, New York, delivered special lectures on "Literatures of the Americas: Forms and Representations" on 13 and 14 October 2003.

Dr. A. G. George, former professor of NEHU, delivered two special lectures on "Milton" on 3 and 4 November 2003.

Other Activities:

Prof. N. Hasan gave seven

lectures at the Department of English, NEHU, Tura Campus, Tura on Shakespeare and Modern Fiction from 17 to 22 November 2003.

Prof. R.P. Sharma (1) gave lectures at the Department of English, NEHU, Tura Campus on "20th Century Literary Criticism" from 17 to 22 November 2003. (2) Gave lectures at the CIEFL, N.E. Campus, Shillong on "Romantic Poetics" from 26 to 29 November 2003.

Dr. M.M. Mazumdar (1) delivered a series of special lectures as a Visiting Fellow to the Department of English, Arunachal University on 19-

29 March 2003. (2) Was a panelist at the Fulbright International Seminar on Women and American Society on September 25-26, 2003 at Santiniketan.

Dr. S. Bhattacharjee delivered a lecture on "The Gendering of Social Discourse" at the workshop on "Social Reality and Methodology in Social Sciences" organized by ICSSR-NERC, Shillong at Manipur University on 6th March 2004.

Dr. M. Renganathan participated in the refresher course in English organized by CIEFL, Shillong from 15 November to 05 December 2003.

DEPARTMENT OF ENGLISH (TURA)

Thrust Area of Research:

Indian writing in English, Modern Fiction and Literary Criticism.

Brief Statement of Academic Activities:

During the year the department concentrated on its postgraduate teaching programme. A two-day national seminar on "Revisiting Language and Literature: Key Issues" was organized on 3-4 November 2003. 7 scholars from various parts of India participated and 25 papers were presented including 1 in absentia from

Yemen. A UGC sponsored refresher course was also organized from 13 November to 3 December 2003.

Study Tour:

A study tour in collaboration with RDAP Department was organized in February 2004. Places visited: Mumbai, Goa and Kolkata.

Teacher in charge: Dr. K.C. Bindu. No. of students : 22, Duration : 10 days.

Purpose of visit: Exposure to English departments in other universities.

Head : Professor S. Ganguly

Faculty :

Professor : S. Ganguly, M.A.(Del), Ph.D. (Ran) ELT and Indian Writing in English

Reader : S. Gurudev, M.A., Ph.D.(NEHU) Modern Fiction

Lecturers : R.S. Thakur, M.A.(Pat.) Narrative in Fiction
 Angela R.W. Ingty, M.A. (Gau), M.Phil. (Mad) Criticism & Phonology
 B. Justin, M.A.(Ker.), M.Phil. (JNU) Women's Travel Writing
 K.C. Bindu, M.A.(Calicut), Ph.D.(Hyd.) Identity Studies

Student Intake: a) Enrolment capacity: 25
 b) Actual admission: SC ST Genl. Male Female Total
 M.A.: - 18 7 9 16 25
 Ph.D.: - - 1 - 1 1

No. of students 25; Research Scholars 1. All Meghalaya tribal students are receiving financial aid.

No. of students 23 from NEHU, 2 from outside NEHU and Research Scholar 1 from NEHU.

No. of students 23 from Meghalaya and 2 from outside Meghalaya.

Seminars/Conferences/Symposia:

The department organized a national seminar on "Revisiting Language & Literature: Key Issues" on 3-4 November 2003 at which the following faculty members of the department presented papers as stated against their names:

Prof. S. Ganguly, "Evaluating Proficiency Levels in English as Second Language: Challenges Before Curriculum Planners".

Dr. S. Gurudev, "Rites of Passage:

Victorian to Postmodern Fiction".

Mr. R.S. Thakur, "The Syntax of the Folk Tales".

Mrs. B. Justin, "The Canvas as Text: Women as Nation in Ravivarma's Paintings".

Ms. Angela R.W. Ingty, "Intelligibility of Indian English with Reference to Pronunciation Problems and Prospects with Special Focus on the North East".

Dr. K.C. Bindu, "Crisis in English Studies: A Case Study".

Infrastructure Facilities:

- a) 2 PCs
- b) 1 Multimedia Projector
- c) 1 Laptop Computer
- d) 1 Laser Printer

Other Activities:

Appointment: Dr. K.C. Bindu as Lecturer.

Retirement: Dr. K.C. Joseph as Lecturer.

DEPARTMENT OF GARO (TURA)

Brief Statement of Activities during the year:

The department continued its research activities in the field of the literature, culture, language and dialects of Garo Hills in general and the Garos in particular. Apart from teaching regular classes, the department organized departmental seminars in which students presented their papers.

Environmental Studies, Linguistics II, Modern Poetry, Literary Theory & Criticism, Literature in Translation, Garo Folklore, Tragedy as a Literary Form, Indian Literature in English.

Field Trips:

Students of both the semesters visited Mangdugre Village of West Garo Hills on 13th

Head	: Professor C. R. Marak		
Faculty	:		
Professor	: C.R. Marak M.A.(Gau) Ph.D (NEHU) Garo Literature		
Lecturers	: F. K. Marak M.A. (NEHU) Folklore		
	: J. R. Marak M.Ed.(Utkal) Fiction in Garo		
	: D. Ch. Marak M.A.(NEHU) Dialects of Garo		
Student Intake:	(a) Enrolment capacity – 50		
	(b) Actual admission:	ST(M)	ST (F) Total
		23	26 49

Courses Conducted:

History of Garo Literature, Poetry I, Drama I, Fiction I, Linguistics I, Poetry II, Drama II, Prose I, Epic Poetry &

October 2003 with the purpose of studying the Wangala thanksgiving post-harvest festival. F. K Marak was the teacher in charge.

Seminars/Conferences:

Organised:

(I) Seminar on "Cultural Mapping of Garo Hills" on May 23rd & 24th 2003 at NEHU Tura Campus, sponsored by Indira Gandhi Rastriya Manav Sangrahalaya, Bhopal in which 24 papers were presented. In this seminar the following members of the faculty presented papers as shown against their names:

1) Prof. C. R. Marak "The Culture of the Garos: an Overview".

2) Mrs. F. K. Marak "Folk Songs reflecting Garo Culture".

3) Mrs. J. R. Marak "Funeral and post-Funeral practices of the Chisak sub-Tribe of the Garos".

4) Mrs. D. Ch. Marak "Superstitions among the Garos".

(II) A talk on "Value Education" for the students of Tura Campus was organized on September 30th 2003. Nikme Ch. Momin, Lecturer, Department of Education (Tura campus) spoke on "Value Education: An Urgent Need", which was followed by discussions.

(III) Organised an extension lecture on "Garo language" for Garo and English department students and staff at NEHU Tura Campus on 3rd March 2004 by Prof. Robbins Burling, Professor of Anthropology, University of Michigan.

Attended:

Prof. C. R. Marak attended the following seminars and presented papers as shown against each:

(1) "Youth Unrest in Garo Hills" at the seminar on "Youth Unrest in North-East India (Post- Independence Period)" organised by the Department of Political Science, Dibrugarh University on 14th & 15th November 2003.

(2) "Garo Myths: their Recurrence in Written Literature" at the seminar on "Khasi and Garo Myths" organised by the Centre for Literary & Cultural Studies, NEHU, on the 24th July 2003 at NEHU Bijnai Complex, Shillong.

(3) "Status of Oral Traditions in A'chik (Garo) Society" at the 23rd Indian Folklore Congress 2004 organised by the School of Panjabi Studies, Guru Nanak Dev University, Amritsar, on 24th – 26th March 2004.

(4) "An Analysis of the Garo Traditional Oral Poetry" at the seminar on "Revisiting Language and Literature: Key Issues" organized by the Department of English, NEHU Tura Campus on 3rd & 4th November 2003 at the campus premises.

(5) Contributed a paper titled "The Changing Perspectives of Values in Garo Society" at the workshop on Value Education organized by the Department of Education, NEHU Tura Campus on 27th March 2004.

Infrastructure Development:

(1) One computer set with printer (2) one Bajaj Chetak Scooter, and (3) one Birla Yamaha Generator, all donated to the Department in January 2004 by Erik de Maaker from the University of Leiden, Netherlands, as per the instructions of his institution.

Other Activities:

Prof. C. R. Marak gave six lectures in the UGC sponsored refresher course in English organized by the Department of English, NEHU Tura Campus, from 13th November to 3rd December 2003 on the following topics:

1. Use of Myth in Indian Fiction,
2. Trends in Boro Short Stories,
3. Rabindranath Tagore's Short Stories,
4. Characterisation in Anita Desai's "In Custody",
5. Structure of R. K. Narayan's "The Guide", and
6. Traditional Garo Poetry.

Mrs. J. R. Marak attended (i) the seminar on "Revisiting Language & Literature: Key issues" organized by English Department, NEHU Tura Campus on 3rd & 4th November 2003.

(ii) Workshop on Value Education organized by the Department of Education, NEHU Tura Campus on 27th March 2004. (iii) Seminar on Entrepreneurship organized by the Department of R.D.A.P, NEHU, Tura Campus, and sponsored by KVICS on 29th October 2003. She also attended the UGC sponsored refresher course in English organized by the Department of English, NEHU Tura Campus from November 13th to December 3rd 2003.

Mrs. D. Ch. Marak attended the workshop on Value Education organized by the Department of Education, NEHU Tura Campus on 27th March 2004.

Mrs. F. K. Marak represented the department in the state level seminar organized at Tura by the Law Research Institute, Gauhati High Court (sponsored by NEC) on the Customary Laws of the Garos of Meghalaya with special reference to their Land Holding System on 25th March 2004. She also attended the Orientation Programme from 27th October to 22nd November 2003 organised by the UGC Academic Staff College, Himachal Pradesh University, Shimla and was awarded A grade in the assessment.

DEPARTMENT OF HINDI

Thrust Area of Research:

Modern Hindi Literature,
Comparative Study.

creating awareness among the students in relation to the socio-cultural development of the region. The continuous attraction of students from almost all the states of North-Eastern India to the department is a testimony to the popularity of the subject and its utility and relevance in the region.

Brief Introduction to the Department:

The Department of Hindi, established in 1996, has been offering

Head	:	Prof. V.K. Srivastava						
Faculty	:							
Professor	:	V.K.Srivastava, M.A., D.Phil.(Alld.) Medieval Poetry, Cultural and Comparative Study						
Readers	:	D.K.Choubey, M.A., Ph.D.(Manipur) Comparative Study. S.K. Sharma, M.A., Ph.D (Delhi) Poetics						
Lecturers	:	M.P. Pandey, M.A., Ph. D. (Kashi V) Criticism B.P.Tripathi, M.A., M.Phil (JNU) (Delhi) Modern Poetry						
Student Intake:	(i)	(a)	Enrolment capacity (M.A):				40	
		(b)	Actual Admission under the heading:				28	
			SC	ST	Gen	Male	Female	Total
			2	9	17	8	20	28
	(ii)	Ph.D. Programme:						
		(a)	Already enrolled (ongoing research)					
			SC	ST	Gen	Male	Female	Total
			1	2	9	2	10	12
		(b)	Enrolled during the year 2003-2004.					
			SC	ST	Gen	Male	Female	Total
			-	-	4	2	2	4

regular classes at M.A. level since its inception. Keeping in mind the broader concept of Hindi literature and language, the department is also

The department is also running Ph.D. programme to enrich the research activities in the field of Hindi literature and language along with

comparative study of Hindi and other regional languages.

Course Conducted:

Semester-wise during the year

1st Semester

- (i) Hindi Bhasha evam Uska Vikash
- (ii) Bhartiya Kavyashastra-1
- (iii) Aadhunik Kavya (Chhayavad tak) evam Paryavran Parak Kavya
- (iv) Hindi Gadya Sahitya-1 (Natak evam Nibandh)

2nd Semester

- (i) Hindi Sahitya ka Aadikal
- (ii) Bhartiya Kavyashastra-2
- (iii) Bhaktikalin Kavya
- (iv) Hindi Gadya Sahitya-2 (Upanyas evam Kahani)

3rd Semester

- (i) Aadikalin Kavya
- (ii) Paschatya Samiksha Sidhant
- (iii) Bhasha Vigyan ke Sidhant
- (iv) Bhakti Kavya

4th Semester

- (i) Special Paper: Premchand
- (ii) Ritikavya
- (iii) Hindi Bhasha ka Vikash
- (iv) Hindi Nibandh Rachana

Study Tours/Field Trips of Students:

(a) Names of the Teacher(s) In-Charge for study tour:

- (i) Prof. V.K.Srivastava
- (ii) Dr. D.K. Choubey

(b) Place(s) of visit: Kolkata, Chennai, Kanyakumari, Mysore, Delhi.

(c) Duration: 16 days (from 29th December 2003 to 14th January 2004)

(d) Purpose of visit:

(i) To see the places of cultural importance.

(ii) To interact with students of Hindi of various universities.

(iii) To develop creative writing efficiency among students by provoking them to write travelogue on their study tour.

Seminar/Conferences/Symposia/ Extension Programmes, etc:

Professor V. K. Srivastava presided the seminar on the topic "Poorvottar mein Hindi ki Istithi aur Sambhavnayen" at Shillong on 21st September 2003 organized by NCERT, Shillong. In this seminar he also presented a research paper titled "Poorvottar mein Hindi ki Istithi".

Dr. B. P. Tripathi participated in the 56th convention of Sahitya Sammelan at Pune from 16th to 18th March 2004, organized by Hindi Sahitya Sammelan Prayag. In this convention he presented a paper titled "Rojgarparak Siksha evam Manav-moolya".

Publications:

Choubey, D.K. 2003. Assam mein Sampradayik Soundrya ke Prateek Jikir Geet. *Dhai Akhar*, 1.

Pandey, M.P. 2003. Ham na Marai, Marihai Sansara. *Apoorva Jangatha*, July-September.

Pandey, M.P. 2003. Lok ki Awadharna. *Hindi Anushilan*, June.

Pandey, M.P. 2003. Nazir Akbarabadi: Lok-Jeewan ka chitera Kavi. *Sammelan Patrika*, 88(4).

Sharma, S. K. 2003. Parmanand Das ki Bhasha. *Shodh Samaveta*, 11.

Sharma, S. K. 2003. Premchand ke Upanyas Sahitya mein Gandhivadi Chetna. *Shodh Prakalp*, 13.

Srivastava, V.K. 2003. *Ramcharitmanas ki Shri Ram Stotrawali: Nakshtradhari Adhyayan*. Guwahati: Assam Hindi Prakashan.

Honour/Award/Recognition:

V. K. Srivastava was appointed as a non-official member of the Grants Committee for Hindi Institutions functioning in North-Eastern India under Central Hindi Directorate, New Delhi, Ministry of Human Resource Development, Government of India.

Other Activities:

V.K. Srivastava (i) presided over the inaugural function of 56th refresher course for Hindi Teachers of Meghalaya, Shillong at Shillong organized by the Central Hindi Institute, Agra on 23rd June 2003. (ii) Delivered a special lecture on "Adhyayan Adhyapan mein Anukaran ka Mahatava" at Shillong on 30th June 2003 in the 56th refresher

course for Hindi Teachers of Meghalaya, Shillong organized by the Central Hindi Institute, Agra. (iii) During the educational tour of the Department of Hindi, NEHU, he delivered a lecture on "Patrakarita ki Avadharna" at the Department of Hindi, University of Madras, Chennai on 2nd January 2004 and delivered a lecture on "Kabir ke Kavya mein Manavta" at the Department of Hindi, University of Mysore, Mysore on 7th January 2004. (v) Delivered a lecture at the workshop in NEHU, Shillong on the topic "Hindi ki Ling-Vyavastha" organized by the Hindi Cell of NEHU, Shillong on 17th March 2004.

D.K. Choubey worked as a member of the editorial board for *Sanskriti Sadhak: Prof. Krishna Narain Prasad Magudh* published in Guwahati, April 2003 and evaluated articles for Hindi journals of NCERT, Shillong from 29th March 2004 to 31st March 2004.

S.K. Sharma delivered a lecture on "Paribhasik Shabdawali" as resource person in a workshop organized by All India Radio, Shillong on 5th March 2004.

M.P. Pandey (i) participated in the UGC sponsored refresher course in Hindi organized by Banaras Hindu University, Varanasi from 7th to 27th June 2003. (ii) Was a resource person in the 57th refresher course for Hindi teachers organized by the Central

Hindi Institute, Agra (Shillong centre) at Tura from 1st to 8 August 2003. (iii) Translated from English to Hindi a textbook of NCERT for class XII titled "Bharat mein Samajik Parivartan" (author: Prof. M.N.Karna) in the year 2003. (iv) Delivered a lecture on

"Meghalaya mein Hindi Vikas ki Sambhavanayen" at NCERT, Shillong on 24th September 2003. (v) Was a resource person at the workshop on "Hindi-Angreji Takniki Shabdawali" organized by AIR, Shillong on 13th November 2003.

DEPARTMENT OF KHASI

Thrust Areas of Research:

Khasi Literature, Khasi Linguistics, Culture in Khasi Literature,

Literature in Translation, Environmental Awareness in Khasi Literature, Khasi Literary Theory and Literary Criticism.

Head : Professor B. War

Faculty :

Professor : B. War. M.A. (NEHU) M.A. (Delhi) Ph.D (London) Khasi Linguistics

Reader : M.B. Jyrwa. M.A. (Gau) Ph.D (NEHU) Khasi Linguistics
S. Dkhar. M.A. (NEHU), M.Phil (NEHU) Ph.D (NEHU) Khasi Drama
A. Kharmalki. M.A.(NEHU) M.A.(Delhi) Ph.D (NEHU) Khasi Linguistics

Guest Lecturers: Mrs. P. Syiem, Mr. M.S. Kharsyntiew, Prof. B.L. Swer (till 30th November 2003)

Student Intake:

(a) Enrolment Capacity : M.A. : 40 + 1 (one supernumerary seat has been given to a child of NEHU employee)

: Ph.D : 15

		Male	Female
(b) Actual enrolment	: M.A.	41	7
	: Ph.D	10	5

Brief Statement of Academic Activities:

The department conducted three seminars and paper reading sessions for M.A. students. On 29th September 2003, students presented papers on "Placement and Job Prospects for students of Khasi Literature". On the 10th and 15th October 2003, Prof. B. War conducted 4 paper reading sessions on "Translation and Khasi Fiction" for students of M.A. 3rd Semester.

Degree Awarded:

Ph.D.

1. Lapyinshai Syiem, "The Evolution of Khasi Music: A Study of the Classical Content". Supervisor: Prof. B.L. Swer, Joint Supervisor: Dr. Dharayu Kalekar.

M.Phil.

1. Ms. Angelist Marbaniang, "Ka Jer Khun ha ka Shnong Lyni'ong." Supervisor: Dr. M.B. Jyrwa.

2. Ms. Sumarnita Skhembill, "Ka Jingpule Bniah halor ka Khanatang jong ka Dai'nthlen." Supervisor: Dr. M.B. Jyrwa.

3. Ms. Badashisha Nongsiej, "Ka jingbishar ia ka rukom pynkhuid ia ki Baiap hapdeng ki Khasi (Khyndriam) ha Shillong." Supervisor: Dr. S. Dkhar.

4. Ms. Graceful Sohtun, "A Study of Folktales of Thied-Dieng Village." Supervisor: Dr. A. Kharmalki.

5. Rolling Stone Wankhar, "A Study of Major Themes and Techniques

in H. Elias' poetry." Supervisor: Professor B. War.

6. Renewbiang Dkhar, "The Poet as a Social Commentator: A study of Poems". Supervisor: Professor B. War.

7. Aitylyne S. Shylla, "A Study of Khasi Megalithic Culture in Nongkseh". Supervisor: Professor B.L. Swer.

Placement of Students in Various Services:

(1) Walter Thabah, Lecturer, Sankardev College, Shillong.

(2) Navalinda Lyngdoh, Lecturer, Mawsynram Border Area College, Mawsynram.

(3) Alpha Hercules Sawkmie, Lecturer, U. C. College, Barapani.

(4) Graceful Sohtun, Teacher Sohkynduh Primary School, Sohra.

Courses Conducted:

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

Study Tours:

(i) Two local study tours in connection with the course on

Environmental Awareness in Khasi Literature were organized: (a) 2nd and 4th semester students to Um Ngi on the 28th May 2003, and (b) 1st and 3rd semester on the 8th November 2003.

(ii) All India study Tour of 3rd semester students to Bangalore, Mysore, Trivandrum and Kolkata to familiarise them with historical places of the country and with different geographical environments and also to visit language institutions and libraries. The teacher-in-charge of the tour was Dr. S. Dkhar.

Seminar/Conference/Symposia etc.:

Prof. B. War organized a one-day seminar on “The Role of Today’s Youths in Politics” on 22nd May 2003 in collaboration with State Resource Centre, NEHU, Shillong. Many prominent youth leaders of the city attended and participated in the seminar and Mr. Paul Lyngdoh, Hon’ble Minister of Youth and Sports, Government of Meghalaya was one of the resource persons in the seminar. Dr. S. Dkhar was the Seminar Director of the two-day national seminar on “Resistance Movement in India with special reference to Meghalaya” held on the 17th and 18th July 2003, and organized in collaboration with Bhasa Sangam India, ICSSR Regional Centre, Department of Art and Culture, Government of Meghalaya. She was also the Course-Coordinator of a one-

day seminar of the Khasi Authors’ Society on 23rd August 2003 and presented a paper on “Ka Jingkordor Ka Ktien Khasi ha ka Thoh ka Pule”. Prof. B. War and Dr. A. Kharmalki attended the national conference on “The Role of Tribal Languages in the Implementation of Education Policy” in New Delhi, from 5th to 7th September 2003. Prof. B. War presented a paper titled “National Language Planning and Policy and the Case of Khasi”. Dr. A. Kharmalki presented a paper entitled “Khasi Language as a Method subject in the Teacher Education Institution in Meghalaya”.

Dr. S. Dkhar was the Course Coordinator of the two-day seminar on “Importance of Translation in Khasi Literature” organised by the Khasi Authors’ Society on the 10th and 11th September 2003. She presented a paper titled “Ka Translation ha ka Drama Khasi”. Prof. B. War also attended the above seminar and presented a paper titled “Ka Kylla-ktien:Ka Jingiakynduh jong ki Kolshor kiba pher” (Translation: A Collision of different cultures). Dr. S. Dkhar attended and presented 4 poems in the Poetry Reading organised by the Sahitya Akademi in collaboration with Pahariya and Bangiya Sahitya Parishad on 27th September 2003. She also attended and presented poems at the All India Poetess Conference in Kolhapur, Maharashtra on the 1st and 2nd November 2003. She attended and

presented a paper titled "Gender Profile on the Teaching Faculty of NEHU" in the NAAC, North-Eastern Regional Workshop from 24th to 29th November 2003. She presented a paper on "Ka Jingroi Jingsan ka Literature Khasi naduh 1980-2003" in the one-day seminar organised by the Khasi Authors' Society on the 18th December 2003.

Dr. M.B. Jyrwa organised the one-day seminar on "The Making of Khasi Literary Criticism" on 18th March 2004.

Publications:

Dkhar, S. 2003. *Ka Jingbishar Bniah ia ka Drama U Baieit Donskhor*. Shillong: Don Bosco Press.

Dkhar, S. 2003. *Ki Umjer Rupa*. Shillong: S. S. Plus.

Dkhar, S. 2004. *Ka Histori bad ka Jingroi Jingsan ka Drama Khasi*. Shillong: Don Bosco Press.

Fund Received from agencies other than NEHU:

Funds received for the national seminar on "Resistance Movement in India with Special reference to Meghalaya" held on 17th & 18th July 2003 are as follows:

- (1) NERC-ICSSR - Rs. 10,000/-
- (2) Department of Art & Culture Govt. of Meghalaya – Rs. 25,000/-

Honour/Award/Recognition:

Prof. B. War was awarded the Rastriya Lok Bhasha Samman-2003

by the Gandhi Hindustani Sahitya Sabha, New Delhi for her work on Khasi Language (7th September 2003).

Dr.S. Dkhar was awarded the Mother Theresa Samman at the All India Poetess Conference, Kolhapur, Maharashtra (2nd November 2003).

Other Activities:

Prof. B. War was appointed as a member of the Review Committee for financial assistance to Khasi authors, Department of Education, Government of Meghalaya. She is also a member of the Research Committee, Central Institute of English and Foreign Languages, Regional Centre, Shillong.

Prof. B. War delivered four lectures on the 28th November and 2nd December 2003 on "Language Policy of India" in the CIEFL Regional Centre, Shillong. She also delivered a lecture on "Origin and development of written Khasi Language" at the workshop on "Compilation of Bibliographies in North Eastern Indian Languages" on 3rd December 2003 in the Department of Library and Information Sciences, NEHU.

Dr. S. Dkhar was appointed as Vice President of All India Poetess Conference, 2003-2005, and was appointed as President of North Eastern region.

DEPARTMENT OF LINGUISTICS

Thrust Area of Research: Burman and Austro-Asiatic; Applied Linguistics.
Linguistics of the North-East Indian languages especially, Tibeto-

Head : Dr. Awadesh Kumar Mishra (since 30th Sept.2003)
Professor J. War (till 9th September 2003)

Faculty :

Professor : J. War, M.A. (Gau./Delhi), Ph.D.(Edin) Psycholinguistics, Applied Linguistics, Morphology

Readers : R. Sachdeva, M.A., Ph.D.(Pune) on lien to Central Institute of Indian Languages, Mysore, as Professor-cum- Deputy Director since 26th May 2003.
Specialization: Sociolinguistics, Language planning
A.K. Mishra, M.A., Ph.D. (JNU) Phonology, Language Typology, Applied Linguistics, Hindi Linguistics.

Lecturers : S.A. Lyngdoh, M.A. (NEHU), M. Phil. (Delhi) Syntax, Typology

Student Intake:

a. Enrolment capacity: M.A.: 35 Ph.D.: 3 (full-time)

b. Actual admission: SC ST Genl. Male Female Total

M.A. :	0	27	0	10	17	27
Ph.D :	0	2	1	3	0	3

M.A. : No. of students receiving financial aid: 27
No. of students from Meghalaya: 27
No. of students from outside Meghalaya: Nil
No. of students from NEHU: 27
No. of students from outside NEHU: Nil

Ph.D : No. of students receiving financial aid: Nil
No. of students from Meghalaya: 1
No. of students from outside Meghalaya: 2
No. of students from NEHU: 2
No. of students from outside NEHU: 1

c. No. of students qualifying NET/GATE/ SLET : 4

Brief Statement of Academic Activities:

The department introduced two optional courses, viz., 'Indian Grammatical Tradition' and 'Semiotics and the Philosophy of Language'.

Courses Conducted:

I Semester: Introduction to Linguistics, Morphology, Syntax-I, Phonetics and Phonology.

II Semester: Semantics, Sociolinguistics, Psycholinguistics, Syntax-II.

III Semester: Generative Phonology, Historical and Comparative Linguistics, South Asia as a Linguistic Area with special reference to North-East India, Language Teaching and Testing.

IV Semester: Structure of Tibeto-Burman Language, Lexicology and Lexicography, Second Language Acquisition, Field Methods.

Study Tours/Field Trips of Students:

Teacher-in-charge: Dr. A. K. Mishra

Places of visit: International School of Dravidian Linguistics, Thiruvananthapuram and Goa University, Goa.

Duration: 3 weeks.

Purpose of the visit: To acquaint the students with the research done in the area of Dravidian and Indo-Aryan Linguistics; Computational Linguistics and Speech to text analysis (for Oriya, Tamil and Malayalam languages).

Seminars/Conferences/Symposia/Extension Programmes etc.:

Dr. A.K.Mishra attended the national seminar on "Foreign Language Teaching - Millennium Implications" organised by the Central Institute of English and Foreign Languages, Shillong, India on October 22-23, 2003 and presented a paper titled "Teaching German as a foreign language to Khasi speakers: A suggested hierarchy of learning difficulties".

Infrastructure facilities acquired during the year:

The department acquired 4 computers with LAN cards, 1 desk jet printer and 1 'office jet' all-in-one (with fax, printer, scanner and copier).

Research Projects:

Ongoing:

1. Title of the project: "LIS-India project on grammar of the Khasi language (mini project of 6-month duration). Principal investigator: Prof. J. War. Amount of fund: Rs. 50,000. Source: Central Institute of Indian Languages (Ministry of HRD), Mysore.

2. Title of the project: LIS-India project on grammar of the Kom language (mini project of 6-month duration). Principal investigator: Dr. A.K.Mishra. Amount of fund: Rs. 50,000. Source: Central Institute of Indian Languages (Ministry of HRD), Mysore.

Other Activities:

Dr. A.K.Mishra visited the University of California, Berkeley, USA for the period 23rd June-15th August

2003 as visiting professor in the Department of South and South-East Asian Studies.

DEPARTMENT OF PHILOSOPHY

Thrust Area:

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

Brief Statement of Academic Activities:

The department revised the postgraduate and undergraduate syllabi,

Head	: Professor C.R. Agera.
Faculty	:
Professors	: Prof. Sujata Miri, M.A., Ph.D. (Delhi) Philosophy of Culture, Philosophy of Religion, Indian Philosophy, Existentialism. C.R. Agera, M.A. (Madr), Ph.D. (Delhi) Indian Philosophy, Philosophy of Religion and Comparative Religion, Existentialism, Philosophy of Culture. Jagatpal, M.A. (Alld), Ph.D. (IIT-Kanpur) Moral Philosophy, Logic, Indian Philosophy, Philosophy of Natural Sciences. Binod Kumar Agarwala, M.A., M.Phil. (Delhi), Ph.D. (L,now) Social and Political Philosophy, Modern Western Philosophy, Moral Philosophy.
Reader	: Vanlalnghak, M.A. (NEHU), Ph.D. (IIT-Kanpur) Philosophy of Culture, Moral Philosophy, Analytic Philosophy.
Lecturers	: X.P. Mao, M.A. (NEHU), M.Lett. (Sydney) Moral Philosophy, Existentialism. E. R. Tongper, M.A., Ph.D. (NEHU) Philosophy of Religion, Social and Political Philosophy. L.N. Lenka, M.A. (Utkal), Ph.D. (Hyd) Analytic Philosophy, Philosophy of Language, Logic, Western Epistemology. R.K. Jha, M.A., Ph.D. (Delhi) Western Metaphysics, Indian Philosophy.

Visiting Professors/Fellows/Scholars: Ms. Anne Helen Gilbert from Auroville, Pondicherry, addressed the students and the faculty on 8.10.03 on "The City of Auroville".

Student Intake:

(a) M.A. : (i) Enrolment Capacity : 50

(ii) Actual Admission:

SC	ST	Genl.	M	F	Total
1	35	11	15	32	47

(b) Ph.D. : (i) Enrolment Capacity : 4

(ii) Actual Admission:

SC	ST	Genl.	M	F	Total
-	3	-	1	2	3

(c) NET: 1 Research student secured the JRF of the U.G.C.; 3 Research students secured the I.C.P.R. scholarship.

Research Scholars receiving financial aid: U.G.C.- J.R.F. = 1

I.C.P.R.- J.R.F. = 4

Research Scholars:	From NEHU	outside NEHU	Meghalaya	Outside Meghalaya
	27	1	62	27

taking into account the new developments in the discipline. The postgraduate syllabus is already implemented. The department successfully organized a 21-day refresher course for college teachers in Philosophy. The faculty members served as resource persons for various refresher courses outside NEHU. They also participated in a number of regional, national and international seminars and published articles and books.

Research Degrees Awarded:

(a) M.Phil.:

(1) Paramita Das, "Existence That is Brahman: A Study in

Vivekananda". Supervisor: Prof. C. R. Agera.

(b) Ph.D.:

(1) Saji Varghese, "Political Philosophy of Antonio Gramsci". Supervisor: Prof. M. Miri.

(2) Basil Pohlong, "Culture and Religion: A Conceptual Study". Supervisor: Prof. S. Miri.

(3) T. Jamedi Longkumer, "The Ultimate Concern: A Critical Study in Tillich". Supervisor: Prof. C. R. Agera.

(4) T. Jamkothang Haokip, "The Concept of God in Traditional Thadon Kuki Religion". Supervisor: Dr. Vanlalnghak

Courses Conducted:

Indian Logic & Epistemology, Descartes and Modern Philosophy, Philosophy of Religion, Moral Philosophy-II, Issues in Contemporary Indian Society, Applied Ethics, Speech Act Semantics, Existentialism, Indian Metaphysics, Ethics and Environment, Western Metaphysics, Symbolic Logic, Problems of Political Philosophy, Analytic Philosophy, Philosophy of Natural Sciences, and Understanding Tribal Culture.

Seminars:

Attended:

Prof. Sujata Miri chaired a session of the seminar on "Narratives of North-East India: Creativity, Tradition and Interpretation" organized by Women's College, Shillong, Katha, New Delhi and ICSSR-NERC, Shillong, on September 6, 2003 at Shillong.

Prof. Jagatpal presented a paper titled "The Nature and Function of Philosophy of Education" at the national seminar on "Philosophy of Education" organized by the Department of Education, NEHU, Tura Campus, from 11 to 13 March 2003. He presented a paper titled "The Idea of Culture of Unity in Diversity" at the national seminar on "Perspectives in Contemporary Indian Philosophy" organized by the Department of Philosophy, Assam University, Silchar from 23 to 25 February 2004.

Prof. B.K. Agarwala presented a paper titled "The Significance of Philosophy in the New Millennium: A Postmodern Perspective" at the national seminar on "Perspectives in Contemporary Indian Philosophy" organized by the Department of Philosophy, Assam University, on 23-25 February 2004.

Dr. Vanlalnghak presented a paper titled "Tribal Worldview and Cultural Identity" at the national seminar organized by the Department of Philosophy, Assam University, Silchar on 23-25 February 2004. He also delivered six lectures on Cultural Pluralism at the refresher course organized by the Department of Philosophy, Manipur University, from 27th to 31st January 2004.

Mr. X.P. Mao presented a paper titled "Agro-Mindset" at the national seminar organized by the Urban Affairs Ministry, Meghalaya on 11-13 December 2003 in Shillong.

Dr. L.N. Lenka presented a paper titled "Is Deductive Inference Justification Preserving?" at the national seminar on "Creativity and Cognitive Science" organized by the Department of Philosophy, University of Hyderabad, on 26-28 February 2004.

Publications:

Agarwala, B.K. 2003. Rawl's Political Theory of Justice: Inscription of Liberalism in Postmodern

Discourse. *Sandhan: Journal of Center for Studies in Civilizations*, 3(1): 105-136.

Agarwala, B.K. 2004. Asiatic/ Primitive Mode of Production: A New Exploration in Marx Beyond Marxism. In Sujata Miri (ed) *Rationality and Tribal Thought*. New Delhi: Mittal Publications, 65-96.

Agera, C.R. 2003. Tillich on the Ultimate Concern. In R. Ghosh (ed) *Truth and Value*. Delhi: New Bharatiya Book Corporation, 43-64.

Agera, C.R. 2004. The Spoken and the Written: Tribal Religions Liberate the Scriptures. In Sujata Miri (ed) *Rationality and Tribal Thought*. New Delhi: Mittal Publications, 195-202.

Lenka, L.N. "Rationality and the Lottery Paradox", in *Rationality and Tribal Thought*, Ed. Sujata Miri, New Delhi: Mittal Publications, 2004, pp.37-40.

Lenka, L.N. 2004. The Dogma of Determinism. *Journal of Indian Council of Philosophical Research*, 20 (1): 153-157.

Miri, S. 2003. Concept of Spirituality: A Comparative Study. *Journal of Sikh Studies*, 27(1).

Miri, S. 2003. *The Broken Circle*. New Delhi: Minerva Press.

Miri, S. ed. 2004. *Rationality and Tribal Thought*. New Delhi: Mittal Publications.

Pal, J. 2004. *An Enquiry*

Concerning the Nature of Moral Principles. Delhi: Abhijeet Publications.

Pal, J. 2003. A Critique on the Nyaya Distinction of Vaidic and Laukika Sabda. In R. Ghosh (ed) *Truth and Value*. Delhi: New Bharatiya Corporation, 103-133.

Pal, J. 2003. Sterba on Reconciling Anthropocentric with Non-Anthropocentric Ethics. *Indian Philosophical Quarterly*, 30(3): 443-452.

Pal, J. 2004. Issues Relating to Sankara's View on *Sruti* and *Tarka*. In Sujata Miri (ed) *Rationality and Tribal Thought*. New Delhi: Mittal Publications, 27-35.

Pal, J. 2004. *Karma, Dharma and Moksa*. Delhi: Abhijeet Publications.

Vanlalnghak. 2003. Moral Standard: A Case Study of Manipur. *Reflections*, 1(1): 111-119.

Vanlalnghak. 2003. Tribal Value System and Leadership Issue. In Sujata Miri (ed) *Rationality and Tribal Thought*. New Delhi: Mittal Publication, 155-160.

Infrastructure facilities acquired during the year:

Four computers were bought for faculty members.

Other Activities:

Prof. S. Miri participated in an international seminar on "Culture,

Identity and Development” organized by the Maison des Sciences de L’Homme, Paris, from May 21-23, 2003. She also attended the seminar on “Economics of Higher Education” sponsored by the UGC and organized by NEHU, Shillong, on 28-29, 2003 and the seminar on “Development Plan for North-East Region: Exploring Options and Possibilities” sponsored by DONER and organized by NEHU, on 11-12, December 2003.

Dr. Vanlalnghak participated in the UGC sponsored national seminar on “Economics of Higher Education” organized by NEHU from 28 to 29 November 2003. He also participated in the DONER sponsored national seminar on “Development Plan for North-East Region: Exploring Options and Possibilities” organized by NEHU on 11-12 December 2003.

Dr. B. Oinam, Lecturer, resigned his post on 30th June 2003 to join as Assistant Professor at IIT Kanpur.

Two faculty positions were filled: Dr. R.K. Jha joined the department on 2.6.03 as Lecturer and Prof. B.K. Agarwala as Professor on 7.7.03.

The post-graduate syllabus in Philosophy was comprehensively revised to incorporate new developments in Philosophy; the new syllabus is already implemented from the academic year 2003. Likewise, the undergraduate syllabus in Philosophy was comprehensively revised and approved.

The department organized a UGC sponsored 21-day refresher course on Culture and Religion from 27th October to 16th November 2003. Dr. Vanlalnghak served as the Course-Coordinator.

Prof. S. Miri delivered two lectures on “Philosophizing the Gender Issue” at the refresher course on Gender and Democracy organized by the Department of Political Science, NEHU, on 25th and 26th August 2003.

Regular weekly seminars were held on Wednesdays in which research scholars, faculty members and other scholars interacted with one another.

Dr. L.N. Lenka attended the UGC sponsored 46th orientation course organized by Burdwan University from 2nd to 29th January 2004.

CENTRE FOR SUPPORTIVE LEARNING SYSTEMS

UNIT FOR ADULT AND CONTINUING EDUCATION

The primary objective of the unit is to create functional development and social awareness on important issues at the grass root level with particular reference to overall and diverse learning needs of all segments

integrating continuing and adult education programmes and extension the unit organizes programmes in collaboration with other sister departments of the university and with state government's departments and

Head/In-charge : Dr. E. Jyrwa

Faculty :

Reader : E.Jyrwa, M.Phil., Ph.D. (NEHU)
Sr. Lecturer : I Lall, M.A. (Patna), M.S. (S. Illinois)
Lecturers : N.P.Goel, M.Sc.,Ph.D. (Mumbai)
 W.S.Mylliemngap, M.Phil. (NEHU)
 J. Mawthoh, M. A. (NEHU)
 B.P.Sahu, B.Tech, Ph.D. (HRD)
 J.I.Rapthap, MSW (Bombay)

Student Intake: (a) Enrolment capacity: Certificate/Diploma
 Certificate/Diploma - 25

(a) Actual admission:

	SC	ST	Genl	Male	Female	Total
Diploma:	-	22	-	4	18	22
Ph.D:	-	1	1	1	1	2

Degrees Awarded:

(a) Diploma: ST – 18 – Male – 2 Female 16 – Total = 18.

of community with a view to cultivate habit of self-education. The unit extends academic support in the development of teaching and learning materials pertaining to societal needs. To enrich higher education by

other organisations within the state and outside.

Thrust Areas:

Adult Education, Women's Empowerment, Literacy and Health,

Population Education, Awareness of AIDS, Drugs/Alcoholism, Counseling, Environment and Disaster Management.

Brief Statement of Academic Activities:

The unit serviced a Certificate Course on Disaster Management under the supervision of Dr. B. P. Sahu and J. Mawthoh.

Population Education Resource Centre (PERC) Activities:

The PERC organized awareness programmes on Population Education and related issues in the educational institutions in the seven states of the North Eastern region on the following:

1. Awareness Programme on Adolescent Education and Counseling by J.I.Rapthap at Don Bosco College, Tura, 8th December 2003 and at Government Boys' Higher Secondary School Tura, 9th December 2003.

2. Awareness programme on Adolescent Education and Counseling by B. S. Langstieh on 28th February 2004 at Seng Kynthei, Mawprem, Shillong.

4 Served as Counselors at St. Mary's College, Counseling Cell from April to November 2003, Shillong: J.I.Rapthap, W.S. Mylliemngap, I. Lall, B.P.Sahu, N.P.Goel & J.Mawthoh.

5. Awareness programme on Alcoholism and Drug Addiction at Smit

Village on 6th March 2004 by J. Mawthoh.

6. Awareness programme on self-employment and entrepreneurship on 30th December 2003 at Pdengshnong, Malki, Shillong by J. Mawthoh.

7. Awareness programme self-employment and entrepreneurship – Role of SHG on 29th March 2004, at Mawlai Nonglum, Shillong by J. Mawthoh.

Distribution of Reading Material:

(a) Distribution of research reports to all PERCs.

(b) Distribution of reading materials to colleges in Meghalaya, Assam and Mizoram: Series – XVIII.

(c) Distribution of reading materials to participants of training programmes in Arunachal Pradesh, Manipur, Meghalaya, Mizoram and Silchar.

Material Development (PERC)

PERC Series XVIII on Disaster Management was developed and distributed.

Extension Lectures: (Population Education Resource Centre) PERC

15th July 2003, Synod College, Needs for Counseling, I. Lall.

15th July 2003, Department of Economics, Tripura University, Adolescent Education and Counseling

J. Mawthoh.

16th June 2003, DIET, Thadlaskein, Adolescent Education and Counseling, J. Mawthoh.

7th August 2003, DIET, Cherrapunjee, Adolescent Education and Counseling, J. Mawthoh.

20th June 2003, Shillong College, Adolescent Education and Counseling, J. Mawthoh.

8th August 2003, Shillong Commerce College, Adolescent Education and Counseling, J. Mawthoh.

21st August 2003, Sankardev College, Adolescent Education and Counseling, J. Mawthoh.

26th August 2003, Jagi Road College, Assam Adolescent Education and Counseling, J. Mawthoh.

29th August 2003, Christian Academy College, Adolescent Education and Counseling, J. Mawthoh.

1st September 2003, Department of Economics, Mizoram University, Adolescent Education and Counseling, J. Mawthoh.

2nd September 2003, Pachunga University College, Adolescent Education and Counseling, J. Mawthoh.

28th February 2004, Mawprem Community Hall, Adolescent Education and Counseling, J. Mawthoh.

28th–29th May 2003, Department of Education, Arunachal University, Adolescent education, N.P.Goel.

15th June 2003, D I E T , Thadlaskein Meghalaya, Adolescent

education, N.P.Goel.

20th June 2003, Shillong College, Adolescent education N.P.Goel.

15th June 2003 Synod College, Adolescent education, N.P.Goel .

7th August 2003, DIET, Cherrapunjee, Adolescent education, N.P.Goel.

8th August 2003, Shillong Commerce College, Adolescent education, N.P.Goel.

1st September 2003, Department of Economics, Mizoram University, Aizawl, Adolescent education, N.P.Goel.

2nd September 2003, Pachunga University College, Adolescent education, N.P.Goel.

3rd June 2003, Laban Bengali Higher Secondary Needs for Adolescent Education, W. S. Mylliemngap.

1st June 2003, Laban Presbyterian Higher Secondary School Needs for Adolescent Education, W. S. Mylliemngap.

1st September 2003, Department of Economics Mizoram University, Sex and Adolescent, B.P.Sahu.

2nd September, 2003, Panchunga University College, Mizoram, Sex and Adolescent, B.P.Sahu.

2nd June 2003, Laban Bengali Higher Secondary School, Adolescent Education and Counseling, J.I.Rapthap.

3rd June 2003, Laban Presbetarian Higher Secondary

School, Adolescent Education and Counseling, J. I. Raptap.

27th March 2004, Amlarem, Jaintia Hills, Jowai, Tourism-Problems and prospect, J. Mawthoh.

Courses Conducted:

Diploma Course in Adult and Continuing Education (Regular teaching course of the Centre: 2 Semesters)

Adult Education, Adult Psychology, Demography, Environmental Education, Methods in Adult Education, Population Education, Counseling and Project Work.

Seminars/Conferences/Symposia/ Extension Programmes, etc:

Attended.

J. Mawthoh attended (1) the regional seminar on "Human Right: Significance and implications with reference to North East India" organised by the Department of Sociology, St. Mary's College at St. Mary's Auditorium on 4-5 November 2003 and presented a paper on "Problems and constraints of Internally Displaced persons – a study of the plight of the Khasi –Pnars of Assam". (2) Regional seminar on "Development plans for North Eastern region – Exploring options and possibilities" organised by the Department for Development of North Eastern region (DONER) in collaboration with NEHU

on 11-12 November 2003 and presented a paper on "Social implications of development – importance of extension in the seven sister states". (3) "Generating employment opportunities in communities – an initiative of the youth employment summit campaign" organised by Meghalaya United Nations Association on 23-24 March 2004 and presented a paper on "Generating employment in the water and sanitation sector". (4) Attended the national seminar on "Youth unrest in North East India in the post Independence period" organised by the Centre for Youth Studies, Dibrugarh University in collaboration with ICSSR New Delhi on 14-15 November 2003 and presented a paper on "Problems and constraints of Internally Displaced persons – a study of the plight of the Khasi – pnars of Assam".

B.P.Sahu (1) presented a paper on "Health Care Issues of Pregnant and Nursing Mothers: A Case Study of Maternal Health Among the Tribals of Ri-Bhoi District" at the seminar held on 28-30 April 2003 and organized by the Anthropological Survey of India, Shillong. (2) "Socio-Environment Impact Assessment of Open Cast Mining in Meghalaya: A Case Study of Jaintia Hills" held on 5-6 June 2003 and organized by North East India Council for Social Science Research, Shillong.

N.P.Goel (1) presented a paper on

“Health Care Issues of Pregnant and Nursing Mothers: A Case Study of Maternal Health Among the Tribals of Ri-Bhoi District” held on 28-30 April 2003 organized by the Anthropological Survey of India, Shillong (With B.P.Sahu).

Organised:

The unit organised the seminar on “Women’s Development through Empowerment in Meghalaya” on 23rd and 24th March 2004 at the Mayurbhanj Seminar Hall, NEHU, Nongthymmai, Shillong. It was sponsored by NEHU, Planning Department, Government of Meghalaya and ICSSR – NERC, Shillong. Co-ordinator: Dr. E. Jyrwa.

Publications:

Jyrwa, E. 2003. Historical Perspective on Ethnicity in Khasi and Jaintia Hills. *Journal of the Anthropological Survey of India*, 52 (2): 1-8.

Jyrwa, E. 2003. Awareness Among the local community on population and its related issues in the East Khasi Hills District, Meghalaya: A Study. *Indian Journal of Population Education*, 22: 34-46.

Funds received from agencies other than NEHU:

Rs. 10, 000/- was received from ICSSR – NERC, Shillong.

Other Activities:

W. S. Myllemngap and J.

Mawthoh attended and participated in the workshop on “Review/Exam of the Neo-Literate material produced by SRC’s and other agencies” organised by Directorate of Adult Education, New Delhi in collaboration with SRC, Guwahati.

Dr. N. P. Goel taught a paper to the students of MA/M.Phil/Diploma in Mass Communication on Empirical Research in Linguistics at the Regional Centre of English and Foreign Languages, Shillong, 2003. He also taught a paper on “Quantitative and Cartographic Techniques” to MA/MSC students of Department of Geography, Tribal Culture and Resource Management, Mizoram University, Aizawl. Taught a paper on quantitative geography to the MA students, Department of Geography, Mizoram University, Aizawl from 20th August to 3rd September 2003 and also from October 27th to 9th November 2003. And taught a paper on demographic aspects of India with special reference to NE at Pachunga College, Aizawl during October-November 2003.

J. I. Rapphap delivered lectures at the Job Training Course for Anganwadi workers of different ICDS projects under the Social Welfare Department, Government of Meghalaya at the AWTC, Lachumiere, Shillong on 10.09.03, 12.06.03, 17.11.03.

Dr. M.C.Pandey retired on 31st December 2003.

UNIT FOR SCIENCE EDUCATION

Thrust Area of Research:

Theoretical Physics/ Biology Education/ Number Theory.

Brief Statement of Academic Activities:

Remedial Teaching in Mathematics, Physics, Chemistry, Zoology and Botany for tribal students.

Seminars/ Conference/ Symposia/ Extension Programmes etc.:

The unit organised a workshop on "Science and Mathematics Teaching" for secondary school teachers on March 25- 27, 2004.

Publications:

Chattopadhyay, A. 2003. Information technology as an important supplementary input for effective science education in India. In S. K. Gupta and M. Day (ed) *Proceedings of National Workshop-Cum-Conference in Information Technology* (November 13-15, 2002), 119-121.

Zoliana, B., Z. Pachuau, L. Zadeng, P. K. Patra, D. T. Khathing and R. K. Thapa. 2003. Photoemission studies of metals by using Mathieu potential. *Indian Journal Physics*, 77A(4): 393- 396.

Head : Dr. Debashis Bhattacharjee

Faculty :

Professor : M. M. Singh, M.Sc., Ph.D.

Readers : D. Bhattacharjee, M.Sc.(NEHU) Ph.D.(Warsaw, Poland)

Number Theory (Arithmetical Functions)

P. K. Patra, M.Sc. (Sambalpur) Ph. D. (NEHU) Elementary Particle Physics/ High Energy Physics.

A. Chattopadhyay, M.Sc. (Cal), Ph.D. (NEHU) Genetics

S. R. Joshi, M.Sc., Ph. D.(NEHU) Microbiology

Dr. S. R. Joshi attended the seminar on "Development Plan for the NE region- exploring options and possibilities" on December 11-12, 2003 organised by DONER and presented a paper titled "Secondary school teachers training in Meghalaya".

Zoliana, B., Z. Pachuau, L. Zadeng, P. K. Patra, D. T. Khathing and R. K. Thapa. 2003. A model photoemission calculations using the Projection Operator Method. *International Journal Mod. Physics, B* 17 [17]: 2897- 2902.

Honour/Award/Recognition:

Dr. S. R. Joshi was awarded second prize in open essay competition on the topic "Natural Disasters in North East India and its management" organized by North Eastern Council.

Other Activities:

Dr. D. Bhattacharjee was awarded a visiting fellowship by ISI Kolkata to work in Cryptography at the Applied Statistics Unit, ISI, Kolkata, from 15th December 2003 to 31st January 2004 as a visiting scientist. He attended an "Autumn School on Pattern Recognition and Data Mining with Application to Web and Biological Data" on September 23-27, 2003 organised jointly by Machine Intelligence Unit of the Indian Statistical Institute, Kolkata and North-Eastern Hill University,

Shillong.

Dr. A. Chattopadhyay was awarded a visiting fellowship by TIFR Mumbai to visit Homi Bhabha Centre for Science Education, TIFR, Mumbai, from 15th January 2004 to 14th March 2004 as a visiting scientist. He also attended a refresher course in Life Science held in Academic Staff College, University of Calcutta (September 2- 23, 2003).

Dr. S. R. Joshi attended a course on Electron Microscopy from 22nd to 30th September 2003 conducted by SAIF, NEHU. He attended the one-day seminar on Liberty & Society at Shillong on November 7th 2003 organized by the Centre for Civil Society, New Delhi.

Dr. P. K. Patra taught M.Sc students in Physics Department, NEHU, Shillong.

UNIT FOR DISTANCE EDUCATION

Extension Lectures:

Prof. (Mrs) B. Lyndem (Laso)
"Teaching of Environmental Studies at

Primary Stage" held at NERIE on 1 – 5 September 2003.

Head : Professor (Mrs) B. Lyndem (Laso)

Courses Conducted:

- 1) Certificate Course on Floriculture for graduates.
- 2) General Course on Floriculture for six weeks.

Student Intake:	ST	Genl.	Male	Female	Total
	4	5	6	3	9

Publications:

Lyndem, B. Laso. 2003. *Higher Education in Meghalaya - An Analysis for the Future*. Guwahati: DVS Publisher.

Lyndem, B. Laso and U. K. De (ed). 2004. *Education in North-East India: Experiences & Challenges*. New Delhi: Concept Publication.

III

School of Human and Environmental Sciences

The School of Human and Environmental Sciences consists of three departments, namely, Anthropology, Geography, and Rural Development and Agriculture Production and one centre – Centre for Environmental Studies. The departments and the centre under the school have well-equipped laboratory facilities with well-qualified faculty members actively engaged in teaching and research as evident from the profiles of respective departments and the centre. A laboratory of Geographical Information

Systems (GIS) and two hydrological observatories in the Department of Geography under Special Assistance Programme (SAP) of the UGC, New Delhi, a pollution monitoring laboratory and weather monitoring stations in the Centre for Environmental Studies are established and have been functioning. Several collaborative and/or consultative research works were taken up with institutions of repute in the country as well as outside. About 12 students from the school qualified NET during the year under report.

DEPARTMENT OF ANTHROPOLOGY

Thrust Area:

The thrust of the department is to build expertise in and train the students in appreciating and understanding the socio-cultural and biological variation of India in general and Northeast India in particular.

Brief Statement of Academic Activities:

The most remarkable part of the year was the hosting of the First Indian Anthropological Congress on “Indian Anthropology for the 21st Century: The Challenges Ahead” from 25th to 27th

Head	:	T. B. Subba
Faculty	:	
Professors	:	T. B. Subba, M.A., Ph.D. (N. Bengal) Social Anthropology H. Lamin, M.A., Ph.D. (NEHU) Cultural Anthropology J. Brouwer, M.A., Ph.D. (LEIDEN U) Cultural Anthropology
Readers	:	L. Zehol, M.A., Ph.D. (NEHU) Cultural Anthropology R. Khongsdier, M.Sc., Ph.D. (NEHU) Physical Anthropology D.K. Limbu, M.Sc., Ph.D. (NEHU) Physical Anthropology
Lecturers	:	V. Pakyntein, M.A., M.Phil. (Delhi) Cultural Anthropology J.W. Dkhar, M. Sc., Ph.D. (NEHU) Physical Anthropology Q. Marak, M.A., (GAU) Prehistoric Archaeology B. Langstieh, M.Sc. (NEHU) Physical Anthropology

Visiting Professors/Fellows/Scholars: More than 150 anthropologists from outside Shillong visited the department during the First Indian Anthropological Congress held on 25-27 March 2004.

Student Intake: MA/MSc:

(a) Enrolment capacity = 25

(b) Actual Admission =	SC	ST	Genl.	Male	Female	Total
	1	23	1	12	13	25

Ph.D:

	SC	ST	Genl.	Male	Female	Total
	Nil	9	4	3	10	13

No. of Students receiving financial aid:

(a) MA/MSc = 20

(b) Ph.D. = 8

No. of students and research scholars from NEHU and outside NEHU

Students/Research scholars	From NEHU	Outside NEHU	Total
MA/MSc	5	20	25
Ph.D.	6	2	8

Number of students and research scholars from Meghalaya and outside Meghalaya:

Students/Research scholars	from Meghalaya	Outside Meghalaya	Total
MA/MSc	5	20	25
Ph.D.	6	2	8

March 2004 in collaboration with Indira Gardhi Rastriya Manav Sangrahalaya and the Anthropological Survey of India. The Verrier Elwin Endowment Lectures by Prof. Binod Agrawal, Director of TALEEM Research Foundation, Ahmedabad, were also organised from 26th to 28th November 2003. More than a dozen papers/book reviews were published by faculty members of the department in different journals of national and international repute. Also, five candidates were awarded Ph.D. degree during the year under report, and five students got through NET Examination 2003.

Degrees Awarded:
Ph.D.

1. Nandita Mukherjee, "Study on Demography and Growth Pattern among the Khasi Children of Shillong, Meghalaya." Supervisor: Dr. R. Khongsdier.

2. Murali Kotal, "A Study on Dermatoglyphics, Blood Groups and Other Genetic Traits of the Kochs of Meghalaya". Supervisor: Dr. R. Khongsdier, Joint Supervisor: Dr.

Sarthak Sengupta, Department of Anthropology, Dibrugarh University.

3. Thungchamo Tsopoe, "Nutritional Status and Physical Growth of Lotha Children of Wokha District, Nagaland". Supervisor: Prof. H. Lamin, Joint Supervisor: Dr. R. Khongsdier.

4. N. Myanbemo Kikon, "Culture Change Among the Lotha Nagas: A Case Study of Wokha and Akuk Villages in Nagaland". Supervisor: Prof. H. Lamin.

5. Zhanuo Thakro, "Culture Change among the Angami Naga". Supervisor: Dr. L. Zehol.

Placement of Students in Various Services:

One of the research scholars got job as Assistant Commissioner of Life Insurance Company during the year under report and another as a Lecturer in a college in Arunachal Pradesh.

Courses Conducted:

Cultural Anthropology (J Brouwer), Palaeo-anthropology (DK

Limbu), Ecological Anthropology (TB Subba), Indian Prehistoric Archaeology (Q Marak), Linguistic Anthropology (TB Subba), Anthropology of Northeast India (R Khongsdier, V Pakyntein and Q Marak), Biological Anthropology (DK Limbu), Demography and Biostatistics (R Khongsdier), Human Genetics (R Khongsdier and B Langstieh), Human Growth and Development (JW Dkhar), Human Ecology and Adaptation (B Langstieh), Practical in Advanced Physical Anthropology- I (DK Limbu, JW Dkhar and B. Langstieh), Anthropological Theories (L Zehol), Anthropological Methods (V Pakyntein), Anthropology in India (H Lamin), Social and Cultural Change (V Pakyntein), Development Anthropology (L Zehol), Medical Anthropology (H Lamin), Economic Anthropology (J Brouwer), Ethnicity and Anthropology (TB Subba and V Pakyntein), Population Biology (B Langstieh), Dental Anthropology (JW Dkhar), Practical in Advanced Physical Anthropology-II (DK Limbu, JW Dkhar and B. Langstieh), Fieldwork and Dissertation (All teachers).

Fieldwork:

Dr. D. K. Limbu took the IV Semester students to Mahadevpur Deori village, Lohit District, Arunachal Pradesh, from January 17 to February 6, 2004 for their fieldwork training.

Seminars/Conferences/Workshops:

Organised:

1. The First Indian Anthropological Congress on "Indian Anthropology for the 21st Century: The Challenges Ahead" from 25th to 27th March 2004 in collaboration with Indira Gandhi Rastriya Manav Sangrahalaya and the Anthropological Survey of India, at the Department of Anthropology, NEHU, Shillong.

2. Verrier Elwin Endowment Lectures by Prof. Binod Agrawal, Director of TALEEM Research Foundation, Ahmedabad, from 26th to 28th November 2003.

Attended:

Prof. T. B. Subba attended (1) the international workshop on "Borders: Economy, Culture, Identity" organized by Social Science Research Council, New York, and held at the International Center, Chiangmai University, Thailand (Jul 4-6, 2003). Topic: "The Journey is Not Over: Diasporic Dispositions of Indian Nepalis." (2) The international conference on "Ethnic Identity and Ethnic Conflict in Multicultural Societies" organized by the Department of Sociology, Bombay University, Mumbai (March 3-5, 2004). Paper presented: "Understanding Ethnic Conflict in Northeast India."

Prof. J Brouwer spoke on: (1) "The study of Anthropology: its unique position among sciences" at St. Edmund's

College on 6th September 2003, (2) "Power, authority, death and individualism in the Indian Sub-continent" at the Department of Indology, University of Lausanne (Switzerland) on 13th January 2004, (3) "Indigenous Knowledge and Choices - Interface of the Mental and the Social" at the Centre of Indian Studies of the EHESS in Paris (France) on 16th January 2004, (4) "Indigenous Knowledge and the Crafts - Interface of the Material and the Mental" at the Centre of Indian Studies of the EHESS in Paris (France) on 21st January 2004, (5) "Indigenous Knowledge, Caste and Tribe - Interface of the Material and the Social" at the Centre of Indian Studies of the EHESS in Paris (France) on 23rd January 2004, (6) Indigenous Knowledge and Modern Manufacturers - Interface of the Mental, Material and the Social" at the Centre of Indian Studies of the EHESS in Paris (France) on 28th January 2004, (7) Modern Media of Communication and Indigenous Knowledge in India and Europe - Toward an Anthropological Perspective" at the Department of Languages, University of Aix-en-Provence (France) on 2nd February 2004, (8) "The Significance of the Knife: Mortality among Nagas and Khasi of NE India" at the Department of Semiotics, Technical University at Berlin (Germany) on 9th February 2004, (9) "Cultural Interaction, Christianity and Conversion - An anthropological

perspective" at the University of Sussex (UK) on 18th February 2004, (10) "Multi-dimensional Interpretation of Myths" - a paper presented at the seminar on "Narratives of North-East India: Creativity, Tradition and Interpretation" organised by Women's College, Shillong, on 6th September 2003, (11) "Perspectives on Indigenous Knowledge System, Development, Oral Tradition and Globalization" - a paper presented at the workshop on "Vanishing Wisdom: Unheard Voices: The Indigenous Knowledge System & Cultural Preservation in the Time of Globalization" organised by the Adaan Foundation, Kolkata, on November 13-15, 2003. Also, chaired the Inaugural Session and Open Discussion Forum of this workshop, and edited the Final Reports and Resolutions.

Ms V. Pakyntein attended (1) the workshop on "Capacity Building of Women Manager in Higher Education" organised by Women's Studies Research Centre, Gauhati University in collaboration with NAAC, New Delhi, from 24th to 29th November 2003. (2) The First Indian Anthropological Congress on "Indian Anthropology for the 21st Century: The Challenges Ahead" organised by the Department of Anthropology, NEHU, in collaboration with Indira Gandhi Rastriya Manav Sangrahalaya and the Anthropological Survey of India from 25th to 27th March

2004. Paper presented: "Holism: A Paradox in Anthropology."

Dr. B. Langstieh attended (1) the UGC Pilot Orientation Programme on Information Technology conducted by Jadavpur University, Salt Lake Campus, Kolkata, from 8th to 27th September 2003. (2) The First Indian Anthropological Congress on "Indian Anthropology for the 21st Century: The Challenges Ahead" organised by the Department of Anthropology, NEHU, in collaboration with Indira Gandhi Rastriya Manav Sangrahalaya and the Anthropological Survey of India from 25th to 27th March 2004. Paper presented: "Human Genomic Studies in India: A Review on Anthropo-Genetics."

Ms Q. Marak attended (1) the seminar on "Cultural Mapping of Garo Hills" organized by the Department of Garo, NEHU, Tura Campus, sponsored by IGRMS, Bhopal, from 23rd to 24th May 2003. Paper presented: "Prehistoric Cultural Antiquities of Garo Hills". (2) Workshop on "Capacity Building of Women Manager in Higher Education" organised by Women's Studies Research Centre, Gauhati University in collaboration with NAAC, New Delhi, with effect from 24th to 29th November 2003. (3) The First Indian Anthropological Congress on "Indian Anthropology for the 21st Century: The Challenges Ahead" organised by the Department of Anthropology, NEHU, in

collaboration with Indira Gandhi Rastriya Manav Sangrahalaya and the Anthropological Survey of India from 25th to 27th March 2004. Paper presented: "Proper Use of Analogy in the Interpretation of Prehistoric Cultures."

Publications:

Brouwer, J. 2003. Modern media of communication and indigenous knowledge in India and Europe. In Gommans, J. and O. Prakash (ed) *Circumambulations in South-Asian History: Essays in Honour of Dirk H.A. Kolff*. Leiden: E. J. Brill Publishers.

Brouwer, J. 2003. Review of B. Schnepel, *Der Dschungelkoenig - Ethnohistorische Aspekte von Politik und Ritual in Suedorissa Indien*, Stuttgart: Beitrage Zur Suedasienforschung Suedasien-Institut Universitaet, Heidelberg, 1997 in *Aziatische Studien*, LII: 343.

Brouwer, Jan. 2003. Review of Tamsula Ao's *The Ao-Naga Oral Tradition*. *The NEHU Journal*, 2(1): 134-37.

Khongsdier, R. 2003. Maternal education in relation to indicators of health and development in Northeast India. In V. S. Sahay and P.K. Singh (ed) *Dimensions of Researches in Indian Anthropology*, pp. 54-79. New Delhi: Serials Publications.

Khongsdier, R. 2003. The LMS method for constructing growth curves

and assessing nutritional status. *Bulletin of the Department of Anthropology, Dibrugarh University*, 31: 71-78.

Khongsdier, R. 2004. The Lyngngams as a Hybrid and Evolving Population. *The NEHU Journal*, 2 (1): 1-14.

Khongsdier, R. K and Nandita Mukherjee 2003. Growth and nutritional status of the Khasi boys in Northeast India relating to exogamous marriages and socioeconomic classes. *American Journal of Physical Anthropology*, 122: 162-170.

Khongsdier, R. K. and Nandita Mukherjee. 2003. Effects of heterosis on growth in height and its segments: a cross-sectional study of the Khasi girls in Northeast India. *Annals of Human Biology*, 30: 605-621.

Langstieh, Banrida T. and B. M. Reddy. 2004. Ethno-historic and Linguistic Background of Lyngngams and their Demographic Structure. *The NEHU Journal*, 2 (1): 15-42.

Subba, T. B. 2003. Review of Stuart Blackburn's *Print, Folklore, and Nationalism in Colonial South India*. *Indian Folklore Research Journal*, 1(3): 124-126.

Subba, T. B. 2003. Review of David N. Gellner (ed) *Resistance and the State: Nepalese Experiences*. *Biblio*, 8(9& 10).

Subba, T. B. 2003. Review of Prem Poddar (ed) *Translating Nations*.

The NEHU Journal, 1(2).

Subba, T. B. and G. C. Ghosh (ed). 2003. *The Anthropology of North-East India*. New Delhi: Orient Longman.

Subba, T. B. 2004. Verrier Elwin. In Vered Amit (ed) *Biographical Dictionary of Social and Cultural Anthropology*. London & New York: Routledge.

Infrastructure facilities acquired during the year:

The department acquired six computers during the year and several laboratory equipment.

Research Programmes/Projects:

a. Ongoing:

1. Prof. T. B. Subba, *The Indian Face: Race and Nationality in Twentieth Century India*.

2. Prof. Jan Brouwer, *Tribal Narratives from North-East India*.

Academic/Professional collaboration:

The department collaborated with the Anthropological Survey of India, Kolkata and Shillong, and Indira Gandhi Rastriya Manava Sangrahalaya, Bhopal in organizing the First Indian Anthropological Congress in Shillong on 25-27 March 2004.

Other Activities:

Ms V. Pakyntein attended the refresher course in Anthropology

conducted by the Department of Anthropology and Centre for Professional Department, University of Delhi, from September 22 to October 14, 2003.

Professor T. B. Subba served as Chairman, Editorial Board of the Annual Report & Editor, *The NEHU Journal* besides serving as a referee for several

international journals and publishing houses. He also organized several Friday Extension lectures during the year under report.

Prof. J. Brouwer served as Visiting Professor at the Ecole des Hautes Etudes en Sciences Sociales, University of Paris, from 15th January to 15th March 2004.

DEPARTMENT OF GEOGRAPHY

Thrust Areas of Research:

a) Geomorphology with focus on Regional and Applied Geomorphology.

b) Environmental studies with focus on Climatology and Climate change, Water Resources and Hydrology, Biogeography and Biodiversity and Watershed Management Studies.

c) Regional Development and Regional Planning.

d) Research on Social and Cultural Diversity of the North-Eastern Region with a special focus on Tribal Development.

e) GIS and Remote Sensing applications in Environment and Land Use Planning.

f) Promoting application of GIS and Remote Sensing through offering Diploma/Certificate Courses.

seminar on "Population and Development in North-East India" in collaboration with the International Institute of Population Sciences, Mumbai, 25-27 February 2004.

b) Organised one workshop on "Recent Techniques in Geography with special reference to use of Remote Sensing, GIS and GPS" NRSA User Meet, 17-19 March 2004 in collaboration with NDC-NRSA, Hyderabad.

c) Published the proceedings of the "International Conference on Environment, Location Decision and Regional Planning" GSNEHR, Shillong.

d) Published a research monograph on "Rainfall, Runoff & Soil Erosion in the Globally Extreme Humid Area, Cherrapunji Region". No.191 under Geographical Studies, Polish Academy of Sciences, Warsawa.

Brief Statement of Academic Activities:

a) Organised one national

Head : Professor B.S. Mipun

Faculty :

Professors : R. Gopalakrishnan, M.A. (Mad), Ph.D. (JNU), Political Geography
A.C. Mohapatra, M.A. (JNU), Ph.D. (NEHU), Regional
Development

S. Singh, M.A., Ph.D. (Meerut), Regional Development &
Integrated Area Planning

B.S. Mipun, M.A. (JNU), Ph.D. (NEHU), Agricultural
Geography, RS & GIS.

D.K. Nayak, M.A., Ph.D. (JNU), Social and Population
Geography

Readers : A.Ahmad, M.A. (Alig), Ph.D (JNU), Historical & Cultural
Geography

Z.H. Qureshi, M.A, Ph.D (Sukh), Geomorphology and Ecology

H.J. Syiemlieh, M.A., Ph.D. (NEHU), Geomorphology

Lecturers : P.G.Momin, M.A.(JNU), M.Phil.(NEHU), Climatology & Ecology
L. Cajee, M.Sc., Ph.D. (NEHU), Biogeography &
Geomorphology

P.K.Ryngnga, M.A. (NEHU), M.Phil. (JNU), North East &
Economic Geography

Visiting Professors: a) Prof. Vimla Rangaswami, Vadodara
b) Prof. S.R. Jog, University of Poona, Pune.

Student Intake:

Enrolment Capacity M.A./M.Sc. = 34 each Semester. M.Phil. = 20. Ph.D. = 20.

Actual admission: SC ST/Genl. Male Female Total

M.A./M.Sc.: - 27 7 25 9 34

M.Phil. : - 11 3 9 5 14

PhD. :- 10 8 13 5 18

Number of students qualifying NET: JRF-3, Lecturer-4, Total – 7.

Receiving Financial Aid- M.A/M.Sc. = 34, Research Scholar = 32.

NEHU M.A/M.Sc Students = 26, Outside NEHU = 8, Research Scholars-NEHU = 11, Outside NEHU = 21.

Meghalaya Students =11, Outside Meghalaya =23, Rs-Meghalaya =11, Outside =21.

Degrees Awarded:

M. Phil.

1. M. Diengdoh, "A study of Un-organised Activities in East Khasi Hills and Ri Bhoi Districts, Meghalaya". Supervisor: Professor Surendra Singh.

2. Deigarcia Warjri, "Geographical Study of Availabilty and Utilisation of Health Care Facility in Khasi Hills". Supervisor: Professor D.K. Nayak.

3. Arduki C. Khyriemujat, "Limestone Mining and its Impact on Landforms: A Case Study of Komorra area, East Khasi Hills, Meghalaya". Supervisor: Professor: R.K. Rai.

4. Bathsheba Goswami Pyngrope, "Geomorphic Studies Around Shella, East Khasi Hills, Meghalaya". Supervisor: Professor R.K. Rai.

5. N. Memma Singha, "Human Impact on Silsako-Daulbari Wetlands of Guwahati City". Supervisor: Dr. Z.H. Qureshi.

6. Palmis Surong, "Land Degradation in the Upper Mynrut River Basin of Jaintia Hills, Meghalaya". Supervisor: Dr. Z.H. Qureshi.

7. V. Pakyntein, "Management of Water Resources in Mawkyrwat area, West Khasi Hills District, Meghalaya". Supervisor: Dr. Z.H. Qureshi.

Ph.D.

1. Bimal Borah, "Population Characteristics and Agriculture Development in Jorhat District". Supervisor: Professor Surendra Singh.

2. T.C. Daimari, "Spatial Variation in Productivity of Tea gardens in Upper Brahmaputra Valley". Supervisor: Professor Surendra Singh.

3. Bobby Beingachhi, "Spread of Education and Level of Literacy in Mizoram: A Spatio-Temporal Analysis". Supervisor: Dr. Ali Ahmad.

4. Sannsing Kharkongor, "Sustainable Development in Meghalaya: A Geographical Appraisal". Supervisor: Professor R. Gopalakrishnan.

Courses Conducted:

Semester II: Economic Geography, Quantitative Techniques in Geography, Ecology and Biogeography, History of Geographical Thought, Fieldwork, Semester IV: Biogeography, Political Geography, Applied Climatology, Hydrology, Integrated Area Planning, Agricultural Geography, Regional Planning I, Advance Geomorphology, Project.

Study Tour:

i) All India Study Tour In-charge Dr. L. Cajee, December-January 2004. Kolkata – Mumbai – Goa – Cochin for 1st semester coursework.

ii) Two week Field Work to Laitkynsew, Tyrna and Nongriat villages, Meghalaya (February – March 2004). In-charge: Dr. H.J. Syiemlieh for 4th semester coursework.

Seminars/Conferences:

Organised:

a. Professor B.S.Mipun, Coordinator, "National seminar on Population and Development in North-East India" sponsored by the International Institute of Population Sciences, Mumbai and Department of Geography, NEHU, Shillong on 25-27 February 2004.

b. Professor B.S.Mipun, Coordinator, Workshop on "Recent Techniques in Geography with Special Reference to use of Remote Sensing, GIS and GPS", NRSA User Meet, 17-19 March 2004 organised by the Department of Geography under SAP-DRS, NEHU and NDS-NRSA, Hyderabad.

Attended:

Professor A.C. Mohapatra (1) presented a paper titled "The Fourth Revolution: Hi-tech Services, Industrial Location and Regional Development" at the 35th Regional Science Conference, North Bengal University, Siliguri, November 21-23, 2003. (2) Presented a paper titled "Has Agriculture Changed in the Land of Seven Sisters?" at the seminar organized by NEICSSR, Shillong, December 12-13, 2003.

Professor Surendra Singh attended (1) the national conference on "Water Crisis and Sustainable Management", XXV Silver Jubilee

Conference, IIG at Banaras Hindu University, Varanasi 28-30 November 2003 and presented a paper on "Regional Variations in Rain Water Availability in the Arunachal Himalayas". (2) National conference and meeting of the National Association of Geographers of India (NAGI), at Ghaziabad on 28-30 December 2003 and presented a paper on "Sustainable Agricultural Practices in India".

Professor B.S. Mipun (1) attended the 3rd Asian Scholars Meet (ICAS3) at the National University of Singapore, Singapore on 19-22 August 2003 and presented a paper on "Socio-Economic Implications of Border Trade in Mizoram, India". (2) Was the local organizing secretary of national seminar on "Population and Development in North-East India" sponsored by the International Institute of Population Sciences, Mumbai and NEHU, Shillong on 25-27 February 2004 at Shillong and presented a paper on "Socio-economic Conditions of Female Agricultural Labourers in Dhemaji District of Assam" and chaired a session on Fertility Issues. (3) Was the convener of the workshop on "Recent Techniques in Geography with Special Reference to use of Remote Sensing, GIS, GPS" NRSA User Meet, 17-19 March 2004, organized by the Department of Geography under SAP-DRS, NEHU and NDC-NRSA, Hyderabad at Shillong.

Professor D.K. Nayak attended (1) the 3rd Asian Scholars' Meet (ICAS3), National University of Singapore, Singapore, 19-22 August 2003 and presented a paper on "Ecological Potential and Competition for Space: A Geographical Perspective on Natural and Social Differentiation in Barak Valley of Assam, India". (2) "Golden Jubilee Seminar on Anthropological Perspectives on North-East India" Anthropological Survey of India, North-East Regional Centre, Shillong 28-30 April, 2003 and presented a paper on "A Geographical Perspective on the Availability and Utilisation of Health Care in Meghalaya". (3) XXV Institute of Indian Geographers Conference at Banaras Hindu University, Varanasi 28-30 November 2003 and chaired the session on "Water Crisis and Sustainable Management". (4) National Seminar on Population and Development in North-East India sponsored by the International Institute of Population Sciences, Mumbai and NEHU, Shillong 25-27 February 2004 and presented a paper on "Spatial Distribution of Population in North-East India" and chaired a session on "Human Resource Development". (5) Was the Joint Organising Secretary, national seminar on "Population and Development in North-East India" sponsored by the International Institute of Population Sciences, Mumbai and held at North-Eastern Hill University,

Shillong 25-27 February 2004.

Dr. H.J. Syiemlieh attended the 25th IIG Conference at Banaras Hindu University, Varanasi, in November 2003 and presented a paper on "Orographic Effects of Rainfall Distribution in North-East India".

Dr. L. Cajee (1) attended the national seminar on "Population and Development in North-East India" sponsored by the International Institute of Population Sciences, Mumbai and NEHU, Shillong 25-27 February 2004 and presented a paper on "Community Participation in Forest Management". (2) Was a member of the organising committee for national seminar on "Population and Development in North-East India", International Institute of Population Sciences, Mumbai and North-Eastern Hill University, Shillong 25-27 February 2004.

Publications:

Cajee, L. & R. K. Rai. 2003. Geomorphic Features and Soil Characteristics: A Case Study Around Mawbri Village. *Hill Geographer*, 18(1 & 2): 36-43.

Cajee, L. et. al. 2003. Appraisal of the Geo-Environment of Greater Shillong in Meghalaya Plateau. In S. Singh, D. K. Nayak and B. S. Mipun (ed) *Proceedings of the International Conference on Environment, Locational Decisions and Regional Planning*. Shillong: The Geographical

Society of North Eastern Hill Region, 181-196.

Gopalakrishnan, R. and C. J. Thomas. 2003. *A Geography of Insurgency in Nagaland and Mizoram*. Report submitted to the Indian Council of Social Science Research, New Delhi.

Hussain, Z. 2003. Book Review of M.A. Sudhir and M. Alankara Masilamani (ed) *Environmental Issues. Review Projector (India)*, 6(4): 18-19.

Hussain, Z. 2003. *Environmental Issues of Northeast India*. New Delhi: Regency Publications.

Hussain, Z. and B. Sharma. 2003. Spatial variation of land productivity in Assam. In Zahid Hussain (ed) *Environmental Issues of Northeast India*. New Delhi: Regency Publications, 21-28.

Hussain, Z. and B. Sharma. 2003. Development strategy for the North Eastern Hills. In A.C. Mohapatra and C.R. Pathak (ed) *Economic Liberalisation and Regional Disparities in India*. Shillong: Star Publishing House, 169-178.

Hussain, Z. and J. Nongkynrih. 2003. Origin, Growth and Nomenclature of the Localities in Shillong. *Proceedings of 23rd NEIHA Conference*, Department of History, NEHU, Shillong, 251-270.

Hussain, Z. and N. Memma. 2003. The dying wetlands of Assam: a case study of Silsako-Numalijalah

wetlands of Guwahati. In Zahid Hussain (ed) *Environmental Issues of Northeast India*. New Delhi: Regency Publications.

Mipun, B. S. and D. C. Das. 2004. Population Pressure and Changing Pattern of Agricultural Production in Lower Brahmaputra Valley. *Transactions of the Institute of Indian Geography*, 26(1): 21-26.

Mipun, B. S. and N. Syam. 2003. The Tea Tribes and Female Work Force in the Tea Gardens of Assam. *Hill Geographer*, 19(1&2): 1-13.

Mipun, B.S., D. K. Nayak and S. Singh (ed). 2003. *Proceedings of the International Conference on Environment, Locational Decisions and Regional Planning*. Shillong: Geographical Society of the North Eastern Hill Region.

Mipun, B.S. and A. Saikia. 2003. Landuse/Landcover Detection Mapping and Identification of Shifting Cultivation areas of Tirap District. In S. Singh, D. K. Nayak and B. S. Mipun (ed) *Proceedings of the International Conference on Environment, Locational Decisions and Regional Planning*. Shillong: Geographical Society of the North Eastern Hill Region, 167-178.

Mohapatra, A. C. & B. Panda. 2003. Disparity in Literacy in the States of Arunachal Pradesh and Mizoram. In A.C.Mohapatra & C.R.Pathak (ed) *Economic Liberalisation and Regional*

Disparities in India: Special Focus on North Eastern Region. Shillong: Star Publishing House, 193-98.

Mohapatra, A. C. and C.R.Pathak (ed). 2003. *Economic Liberalisation and Regional Disparity in India*. Shillong: Star Publishing House, 2003.

Mohapatra, A. C. 2003. Social Choice, Environment and Economic Theory. *Business Perspectives*, 5 (2): 3-10.

Mohapatra, A.C. 2003. Discourse and Geographic Inquiry. *Transactions of the Institute of Indian Geography*, 25 (1&2): 71-75.

Nayak, D.K. and A. Patra. 2003. Ethnic Conflict and Forced Migration in the Areas of Bodo Concentration in Assam, India. *Transactions of the Institute of Indian Geography*, 25(1&2): 30-48.

Patra, A. & D. K. Nayak. 2003. Redistribution of Population in Areas of Bodo Concentration in Assam, India. *Journal of the Bangladesh National Geographical Association*, 31(1&2): 10-25.

Ryngnga, P. K. 2003. Levels of Development in the Hills of North East India. In A.C. Mohapatra and C. R. Pathak (ed) *Economic Liberalisation and Regional Disparities in India: A focus on North Eastern Region*. Shillong: Star Publication House, 141-59.

Ryngnga, P.K. 2003. Expansion of Shillong Urban Agglomeration - A

Note. *Hill Geographer*, 19(1&2): 51-56.

Singh, S. & B. Sharma. 2003. Determinants of Crop-Intensity in the Assam Plains. *The Geographer*, 50(1): 58-72.

Singh, S. & C. Daimary. 2003. Determinants of Labour Productivity in Tea Cultivation in the Upper Brahmaputra Valley. *Transactions of the Institute of Indian Geography*, 25(1&2): 9-19.

Singh, S. 2003. Regional Variations in Rain Water Availability in the Arunachal Himalayas. In D.N.J. Singh and K.N.P. Raju (ed) *Water crisis and Sustainable Management* (XXV, Silver Jubilee IIG Conference Volume). Varanasi: Tara Book Agency, 194-206.

Singh, S. et. al. 2003. Hydrological Aspects in the Extremely Humid Areas around Cherrapunji (India) – An Iterated Approach. In P. S. Ramakrishnan et.al. (ed) *Methodological Issues in Mountain Research*. New Delhi: Oxford & IBH Publications, 219-230.

Singh, S., D. K. Nayak and B. S. Mipun (ed). 2003. *Proceedings of the International Conference on Environment, Location Decision and Regional Planning*. Shillong: GSNEHR.

Starkel, L. & S. Singh (ed). 2003. *Monograph on Rainfall, Runoff & Soil Erosion in the Globally Extreme Humid Area, Cherrapunji Region*. Research Monograph No. 191 under Geographical Studies, Polish Academy of Sciences, Warsawa.

Syiemlieh, H. J., R. Soja, and L. Starkel. 2003. Some aspects of Rainfall-Runoff Relationship. In L. Starkel & S. Singh (ed) *Rainfall, Runoff and Soil Erosion in the Globally Extreme Humid Area, Cherrapunji Region, India*. Research Monograph No. 191 under Geographical Studies, Polish Academy of Sciences, Warsaw.

Syiemlieh, H.J. and P. Prokop. 2003. Landcover and Landuse of Cherrapunjee Spur. In L. Starkel & S. Singh (ed) *Rainfall, Runoff and Soil Erosion in the Globally Extreme Humid Area, Cherrapunji Region, India*. Research Monograph No. 191 under Geographical Studies, Polish Academy of Sciences, Warsaw.

Funds received from outside NEHU:

DST-FIST Rs. 32 lakhs.

Infrastructure facilities added:

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

Research Projects:

a) Ongoing-i) "Rainfall-Runoff Condition in Meghalaya Plateau" sponsored by UGC, New Delhi. P.I. Surendra Singh, Rs. 2 lakhs.

b) Completed-

i) Geomorphic Studies and Effects on Rock Mass Strength on Slope Instability in Different Landslide Zones, sponsored by DST,GOI, P.I.: Prof. R.K. Rai, 2003.

ii) Hydrological Assessment for Optima; Water-shed Management in Cherrapunjee Area, sponsored by University Grants Commission, P.I.: Prof. R.K. Rai, 2003.

Other Activities:

Prof. Surendra Singh delivered a lecture on "Land use Classification and Collection of Land use Statistics" at the Training Programme on Environmental Statistics with special Reference to Environmental Impact Analysis organized by the Centre for Environmental Studies, NEHU, Shillong, 23-28 September 2003. He also delivered an extension lecture on "Spatial Structure of Agricultural Production Function for Indian Economy" on the occasion of the 25th Institute of Indian Geographers' Meet (National Conference, IIG), Department of Geography, BHU, Varanasi, 28-30 November 2003. Finally, he spoke on "Agricultural Production Function for the Developing Economies" at the Colloquium of School of Environment, Resources and Development, Asian Institute of Technology, Bangkok on 17 March 2003 while he was Visiting Professor, School of Environment,

Resources and Development, Asian Institute of Technology, Bangkok, during January-March 2004. He is currently the Vice President of the Institute of Indian Geographers, Pune for three years (2004-2007).

Prof. D.K. Nayak has been appointed as: (1) Member, Joint National Committee of IUGG and IGU,

Indian National Science Academy, New Delhi, January 1, 2004 – December 31, 2007, and (2) Dean, Students' Welfare, w.e.f. 1st April 2003.

Dr. L. Cajee attended the refresher course in Applied Geography held in the Department of Geography and Applied Geography at North Bengal University.

DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURE PRODUCTION (TURA)

Thrust Area of Research:

The thrust areas of research in the department are issues and

challenges concerning rural and agricultural development.

Head : Dr. L.R Saha

Faculty :

Readers : L.R. Saha, Ph.D. (R.A.U., Pusa) Plant Pathology (Agriculture)
B. Gopichand, Ph.D. (B.C.K.V.V.) (on lien) Agronomy (Agriculture)

Lecturers : J.P. Jaiswal, M.Sc. Agriculture Engg. (Alld.)
S.K. Nanda, Ph.D. (JNU) Sociology

Visiting Professor/Part-time Lecturer:

a) Visiting Professor: Om Prakash, Ph.D. (BHU) Rural Development
B.K. Chakravarty, Ph.D. (Coimbatore) Horticulture
S. Saikia, Ph.D. (Ludhiana) Animal Science

b. Part-time Lecturers: B.K. Mishra, Ph.D. (BHU) Animal Science
Joyshree Mohanta, M.Sc. (Ag.) (A.A.U.) Plant Pathology
R. Ao, M.Sc. (Ag.) (NU) Rural Development

Student Intake: a) Enrolment capacity: M.Sc (RDAP) 10

	SC	ST	Genl.	Male	Female	Total
M.Sc. (RDAP) – Sem. – II:	-	9	1	7	3	10
M.Sc. (RDAP) _ Sem – IV:	-	5	2	4	3	7

No. of students from NEHU and outside NEHU, from Meghalaya and from outside Meghalaya :

	From NEHU	Outside NEHU	From Meghalaya	From outside Meghalaya
Semester II:	10	Nil	9	1
Semester IV:	6	1	6	1

Academic Activities:

The main academic activities for the year 2003-04 are confined to giving both theoretical and practical training to M.Sc. (RDAP) II and IV semester students.

Courses Conducted:

Dynamics of Rural Development, Field Crops and Commercial Crops Production Technology – I; Agricultural Surveying and Levelling; Diseases of Horticultural and Plantation Crops; Pests of Field and Horticultural Crops; Computer Application; Production Technology of Fruits and Plantation Crops; Livestock Development and Dairying; Rural Entrepreneurship Development, Rural Research Methods; Rural Economy and Extension Education.

Study Tour:

Prof. B.K. Chakravarty accompanied the 3rd Semester

students to NIRS, Guwahati from August 18 to 23, 2003. He also conducted a study tour for students to visit agriculture, animal science and rural development related institutes in Bombay, Bangalore, Goa and Calcutta from 15 to 28 February 2004. Also, the students under his guidance visited the ICAR Complex, Barapani and the Central Potato Research Institute at Shillong from March 10 to 14, 2004.

Seminars/Conferences:

L.R. Saha and K.C. Das presented a paper titled "Herbal Drugs used by the Tribals of Grao Hills of Meghalaya at the national seminar on "Horticulture for Sustainable Income and Environmental Protection" held at the School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema from 24 to 26 February 2004.

L.R. Saha, K.C. Das and M.

Agarwala presented a paper titled "Collection and Conservation of Minor vegetables available in NE – India: Its essence and prospects" at the national seminar on "Horticulture for Sustainable Income and Environmental Protection held at the School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema from 24 to 26 February 2004.

Publications:

Robert, C.P. and L. R. Saha. 2003. Field Evaluation of Pigeon Pea (*Cajanus cajan*) Genotypes for Resistance against Major Fungal Diseases. *Journal of Mycology and Plant Pathology*, 33 (3): 489.

Infrastructure facilities acquired during the year:

Laboratory equipment for Horticulture, Agronomy and Animal Science components of the M.Sc. (RDAP) programme have been purchased during the year. Further, a Farm House comprising four rooms and a Cowshed have been constructed to provide practical training and demonstration to the students of the department. In addition a dam of the size of 20m length and 3.5m depth was constructed for harvesting rain water to meet the irrigation requirement of the farm and another dam of 25 meter length and 3 meters depth was constructed to make a fishery pond and a water reservoir for meeting the irrigation requirement of the farm.

CENTRE FOR ENVIRONMENTAL STUDIES

Thrust Area of Research:

Biodiversity Conservation, Environmental Monitoring, Forest Management and Environmental Impact Assessment.

Brief Statement of Academic Activities:

During the year under report, the centre continued to pursue people-centric research targeted to promote ecologically sound development of the

northeastern region. Several national and international agencies, viz., Cement Manufacturing Co. Ltd, New Delhi, Central Statistical Organization, Ministry of Statistics and Programme Implementation, Government of India, New Delhi, International Development Research Centre (IDRC), Canada, International Centre for Integrated Mountain Development (ICIMOD), Kathmandu and G.B. Pant Institute of Himalayan Environment and

Development, Almora approached the Centre for undertaking sponsored collaborative research projects. Some of these programmes have fructified and are currently under implementation while others are in pipeline. Under its extension and outreach activities, the centre organized a training programme for Statistical Officers of central and state governments on Environmental

research grant from various funding agencies that were used for implementation of the ongoing research and extension activities and development of laboratory and other infrastructure.

Degrees Awarded:

a) Certificate: (SC: Nil, ST: 8, Gen: 1) (Male: 4, Female: 5) (Total: 9)

Head : Professor B. K. Tiwari

Faculty :

Dr. B.K. Tiwari, Professor, M. Sc. (Gorakhpur University), Ph.D. (NEHU). Specialization: Natural Resource Management.

Dr. O.P. Singh, Reader, M. Sc. Ph.D. (BHU). Specialization: Biodiversity Conservation; Environmental Monitoring.

Dr. S.S. Chaturvedi, Lecturer, M.Sc. (Gorakhpur University), Ph.D. (BHU). Specialization: Environmental Pollution.

Student Intake:

Enrolment capacity: Certificate Course: 10

Actual admission:

i) Certificate Course: (SC: Nil, ST: 9, Gen: 1) (Male: 4 Female: 6) (Total: 10)

ii) Ph.D.: (SC: Nil, ST: 1, Gen: 2) (Total: 3)

Number of students and research scholars receiving financial aid: 14

Number of students and research scholars from NEHU : 11

Number of research scholars from outside NEHU : 03

Number of students and research scholars from Meghalaya : 12

Number of research scholars from outside of Meghalaya : 02

Statistics and Environmental Impact Analysis. This year the centre received more than Rs. 20 lakhs external

Courses Conducted:

Fundamentals of Environmental Science and Ecological Principles,

Environmental Pollution and Environmental Impact Assessment and Environmental Conservation, and Environmental Problems of North-East India

Seminars/Conferences/Symposia/ Extension Programmes, etc:

Organized:

The centre organized a national level training programme on "Environmental Statistics with special reference to Environmental Impact Analysis" during September 23-28, 2003 at Shillong. The Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi sponsored the programme. Dr. O. P. Singh acted as Director of the programme.

Attended:

Professor B. K. Tiwari (1) attended the regional workshop on "Critical Ecosystem Partnership" held on 6-7 June 2003 at Guwahati as a resource person. He presented a paper titled "Strategies for involving communities in *in situ* biodiversity conservation" in the Brain Storming Session on Management of Genetic Biodiversity of North-Eastern India held at Shillong on 29-30 October 2003. (2) Attended the Department for Development of North-Eastern Region sponsored seminar on Development of North-East India and presented a paper titled "Sustainable Development of North-East India,

desired policy interventions to improve bio-resource Management, a case study of Bay leaf and broom grass". The seminar was held on 11-12 November 2003 at Shillong. (3) He participated in the regional workshop for preparation of Peoples' Biodiversity Register (PBR) held during November 8-10, 2003 at Guwahati and made a presentation on Role of JFM in preparation of PBR. (4) He also attended the international workshop on NTFP Management held at ICIMOD, Kathmandu on 16-22 December 2003 and presented a research paper on "Non Timber Forest Products of North-East India. (4) He attended the national conference on "Human Origin, Genome and People of India" held at the India International Centre, New Delhi on 22-24 March 2004 and presented a paper titled "Traditional Knowledge Associated with Sacred Groves of Meghalaya". He also participated in the international conference on "Medicinal Herbs and Herbal Products: Livelihoods and Trade Options" as a special invitee of IDRC, Canada. The conference was held in India Habitat Centre, New Delhi on 26-28 March 2004.

Dr. O. P. Singh (1) presented a paper titled "Coal mining responsible for diminishing life-sustaining role of water in Jaintia Hills District, Meghalaya" at the seminar on "Environmental and Sociological

Implications of Mining of Coal, Limestone and Uranium and Exploitation of Oil and Natural Gas in North East India” held on 5-6 June 2003 at Shillong. (2) Presented a paper titled “Water quality, availability and aquatic life affected by coal mining in ecologically sensitive areas of Meghalaya” at the 3rd national seminar on “Inland Water Resources and Environment” held during February 2-4, 2004 at Thiruvananthapuram. Also chaired a session on ‘Waste Water Management’ in the seminar. (3) A paper titled “Status of water quality in coal mining areas of Meghalaya, India” was presented by him at the national seminar on “Environmental Engineering with special emphasis on Mining Environment” held during March 19-20, 2004 at Dhanbad. (4) Chaired a session on ‘Women and Environment’ at the seminar on “Women Development through Empowerment in Meghalaya” held during March 23-24, 2004 at Shillong.

Publications:

Chaturvedi, S. S. 2004. Conservational potential of common riparian herbs on water run off and soil erosion. *Indian Journal of Environment & Ecoplanning*, 8 (1): 13-18.

Sudha, P., K. C. Malhotra, S. Palet, Rao K. Kameshware, N. Srinivas, N. K. Negi, B. K. Tiwari, T. K. Mishra, R. R. Jagannatha, P. R. Bhat,

I. K. Murthy and N. H. Ravindranath. 2004. Joint Forest Management: Synthesis of its Spread, Performance and Impact in Andhra Pradesh, Gujarat, Karnataka, Rajasthan, Tripura and West Bengal. In H. N. Ravindranath and P. Sudha (ed) *Joint Forest Management in India: Spread, Performance and Impact*. Hyderabad: Universities Press, 196-219.

Swier, S. and O. P. Singh. 2003. Coal mining impacting water quality and aquatic biodiversity in Jaintia Hills District of Meghalaya. *ENVIS Bulletin-Himalayan Ecology*, 11 (2): 26-33.

Swier, S. and O. P. Singh. 2004. Status of water quality in coal mining areas of Meghalaya, India. *Journal of the Institutions of Public Health Engineers (Special Issue)*: 173-181.

Swier, S. and O. P. Singh. 2004. Water quality, availability and aquatic life affected by coal mining in ecologically sensitive areas of Meghalaya. In *Proceedings of the Third National Seminar on Inland Water Resources and Environment*, Thiruvananthapuram .102-108.

Tiwari B. K. and S. Rani. 2004. Edible Products from the Forest. In *Encyclopedia of Forest Sciences*. London: Elsevier Science, 541-550.

Tiwari B. K., H. Tynsong and S. Rani. 2004. Medicinal Plants and Human Health. In *Encyclopedia of Forest Sciences*. London: Elsevier Science, 125-223.

Tiwari, B. K. 2003. Innovations in shifting cultivation and land use and land cover change in higher elevations of Meghalaya, India. In P. S. Ramakrishnan, K. G. Saxena, S. Patnaik and S. Singh (ed) *Methodological Issues in Mountain Research: A Socio-ecological Systems Approach*. New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd., 163-176.

Tiwari, B. K. 2004. Joint Forest Management in Tripura: Its Spread, Performance and Impact. In N. H. Ravindranath and P. Sudha (ed) *Joint Forest Management in India: Spread, Performance and Impact*. Hyderabad: Universities Press, 145-159.

Funds received from agencies other than NEHU (sources and amount):

1. Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi, Rs. 3,92,000.

2. Cement Manufacturing Co. Ltd, New Delhi, Rs. 4,25,000.

3. International Development Research Centre (Canada), South Asia Regional Office, New Delhi, Rs. 2,58,034.

4. G. B. Pant Institute of Himalayan Environment and Development, Almora, Rs. 1,31,200.

5. Uranium Corporation of India Ltd., Jaduguda, Rs. 4,45,000.

6. Urban Water Supply and

Environmental Sanitation Project (Aus Aid), Shillong, Rs. 1,10,000.

7. Indian Institute of Science, Bangalore, Rs. 3,00,000.

Total Rs.20,61,234.

Infrastructure facilities acquired during the year:

During the year under report, the centre acquired a number of scientific instruments namely, High Volume Sampler, BOD Incubator, Spectrophotometer, Membrane Filtration Unit and Digital Conductivity Meter. Few computers with peripherals and a photocopier were also added to the infrastructure facilities of the centre.

Research Projects:

a) Ongoing:

1. Ecological and Economic Assessment of Joint Forest Management in Tripura. Principal Investigator: Prof. B. K. Tiwari. Sponsored by the Indian Institute of Science, Bangalore.

2. Biodiversity Strategy and Action Plan of Nagaland. Principal Investigator: Dr. O. P. Singh, sponsored by the Department of Forest, Environment and Ecology & Wildlife, Government of Nagaland, Kohima.

3. Assessment of Water Quality of River Umkhrah, Shillong. Principal Investigator: Prof. B. K. Tiwari, sponsored by the Meghalaya State Pollution Control Board, Shillong.

4. Biomonitoring of Water Quality in Coal Mining Areas of Meghalaya. Principal Investigator: Dr. O. P. Singh, sponsored by G. B. Pant Institute of Himalayan Environment and Development, Almora.

5. Environmental Studies in West Khasi Hills, Meghalaya. Principal Investigator: Prof. B.K. Tiwari. Sponsored by the Uranium Corporation of India Ltd., Jaduguda.

6. Regional Centre, National Afforestation and Ecodevelopment Board, Ministry of Environment and Forest, Government of India, New Delhi. (A collaborative long term programme with Department of Botany, NEHU).

(b) New:

1. Environmental Study at Lumshnong, Jaintia Hill District, Meghalaya. Principal Investigator: Prof. B. K. Tiwari, Co-Principal Investigator: Dr. O. P. Singh. Amount Rs. 8,50,000, sponsored by the Cement Manufacturing Co. Ltd, New Delhi.

2. Biodiversity Enriching and Livelihood Enhancing Practice of NTFP, MP and MAP Management of War Khasi of Meghalaya, India. Principal Investigator: Prof. B. K. Tiwari. Amount Rs. 2,58,034, sponsored by the International Development Research Centre, Canada.

3. Institutional Survey on Water supply and Environmental Sanitation in

Shillong city, Meghalaya. Amount Rs. 1,10,000, Principal Investigator: Dr. O. P. Singh, sponsored by Urban Water Supply and Environmental Sanitation Project (Aus Aid), Shillong.

Academic Collaborations:

The centre collaborated with

1. Indian Institute of Science, Bangalore in an all India coordinated research project on "Ecological and Economic Assessment of Joint Forest Management in India." Professor B. K. Tiwari is conducting the study in the state of Tripura.

2. International Centre for Integrated Mountain Development (ICIMOD), Kathmandu on a project entitled "Innovations in Shifting Cultivation in North-East India, Bhutan, Myanmar and Nepal". Professor B. K. Tiwari is associated in the capacity of Academic Advisor to the programme.

3. International Development Research Centre, Canada on a research project titled "Gender Relations and Natural Resources Management in Nepal, Bhutan and North-East India". Professor B. K. Tiwari is engaged in studying on "Gender relations among Shifting Cultivators of Khasi Hills, Meghalaya."

4. National Biodiversity Strategy and Action Plan (NBSAP), Ministry of Environment and Forest, Govt. of India, New Delhi, in preparation of Biodiversity Strategy and Action Plan of Nagaland.

Dr. O. P. Singh is coordinating the programme.

Other Activities:

Prof. B. K. Tiwari delivered lectures on "Significance of Natural Resources for Sustainable Development and Marketable and Non-marketable Goods and Services" at the training programme on "Environmental Statistics with Special Reference to Environmental Impact Analysis" organized by the Centre for Environmental Studies, NEHU, and sponsored by the Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi, 23-28 September 2003.

Dr. O. P. Singh delivered a lecture on "Air Pollution: General Account, Data Sources and Case Study" at the training programme on "Environmental Statistics with Special Reference to Environmental Impact Analysis" organized by the Centre for Environmental Studies, NEHU, and sponsored by the Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi, 23-28 September 2003.

Dr. S. S. Chaturvedi joined the centre as Lecturer on 19th May 2003. Dr. S. S. Chaturvedi delivered a lecture on "Collection of Primary and Secondary Data Pertaining to Water

Pollution: General Account and a Case Study" at the training programme on "Environmental Statistics with Special Reference to Environmental Impact Analysis" organized by the Centre for Environmental Studies, NEHU, and sponsored by the Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi, 23-28 September 2003. He also attended the refresher course in Environmental Science conducted by UGC- Academic Staff College, Banaras Hindu University, Varanasi from 9 to 29 March 2004.

This year a number of distinguished personalities and academicians visited the centre. Among them were Mr. Chandi Prasad Bhatta, Member, Forestry Commission, Govt. of India, New Delhi; Ms. Elizabeth Faber, Senior Program Officer, International Development Research Centre, SARO, New Delhi; Ms. Atsuko Toda, Assistant Coordinator, International Centre for Integrated Mountain Development, Kathmandu, Nepal; Prof. S. C. Santra, Kalyani University, Nadia (West Bengal) and Prof. Walter Liese, Hamburg University, Germany. Prof. Liese delivered a Friday Extension Lecture in the university on "Opportunities and Constraints for processing and utilization of Bamboo and Rattan in North-east India".

IV

School of Life Sciences

The School of Life Sciences consists of the departments of Biochemistry, Botany and Zoology. The school is an active centre of post-graduate teaching and research. Each department has identified its thrust areas of research, which include Immunology, Endocrinology, Reproductive Physiology, Limnology, Genetics, Protein Chemistry and Enzymology, Medical Biochemistry, Radiation Biology, Nitrogen Fixation, Ecology of Forest Ecosystem, Biodiversity, Microbial Genetics, Plant Physiology and Biotechnology.

All the three departments are being supported by the UGC under the Special Assistance Programme (SAP) and by the DST under the Fund for Infrastructure in Science and

Technology (FIST) programme. The departments of Botany and Zoology are also supported by UGC under COSIST. Moreover, the departments in the school receive substantial research grants from national and international funding agencies.

The faculty members of the three departments of the school are actively involved in research. They have won wide acclaim in their respective areas of research and received several award in recognition of their achievements. Several members of the faculty have collaborative research programmes with international research groups. 14 students were awarded Ph.D. degree during the period under report.

DEPARTMENT OF BIOCHEMISTRY

Thrust Area of Research:

The thrust area of research is

Adaptation Biochemistry comprising two main areas: (a) Medical

Biochemistry (Hormone and Aging Research, Carcinogenesis and Radiation Molecular Biology, Drug Delivery/targeting and Immunotherapy, Medicinal plants and Biodiversity, Protein Chemistry & Enzymology), and (b) Plant-microbe interactions.

Brief Statement of Academic Activities:

During the year under report, the department admitted 15 students to the MSc and two to the PhD programmes of the department. The department continued to be supported by FIST programme of DST and by Special Assistance Programme of the

UGC. During this year three Ph.D. degrees were awarded, Dr. Kavita Shah was granted a DST project for Rs. 11.0 lakhs and the department received Rs. 19.2 lakhs under SAP from the UGC. The faculty members and students attended 13 seminars/conferences/symposia. The M.Sc. students undertook study tour to different institutions in Delhi, Jaipur and adjoining areas. Faculty members also participated in various other activities such as visiting institutions in the country and abroad. Several papers were published in various journals of national and international repute during the year.

Head	: Professor A.N. Rai
Faculty	:
Professors	: R. Lalthantluanga, M.Sc./Ph.D. (Poona) A. N. Rai, M.Sc. (BHU), Ph.D. (Dundee) R. Sharma, M.Sc./Ph.D. (BHU) R. N. Sharan, M.Sc./Ph.D. (JNU) Vinod Singh (Temp. Attached)
Readers	: A. Alam, M.Sc. (AMU), Ph.D. (Moscow) D. Syiem, M.Sc./Ph.D. (NEHU) A. K. Singh, M.Sc. (Gorakh.), Ph.D. (HCU)
Lecturers	: P. K. Ambasht, M.Sc./Ph.D. (BHU) (Ms.) M. B. Syiem, M.Sc./Ph.D. (NEHU) L. Kma, M.Sc./Ph.D. (NEHU) (Ms.) K. Shah, M.Sc./Ph.D. (BHU) R. Kumar, M.Sc./Ph.D. (IARI)

Student Intake:

a) Enrolment capacity:	M.Sc.	15					
	Ph.D.:	Variable; currently between 20 and 25.					
b) Actual admission:							
M.Sc.:	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya
	0	12	3	5	10	12	3
NEHU	Non-NEHU		Total				
15	0		15				
Ph.D.:	SC	ST	Gen	Male	Female	Meghalaya	Non-Meghalaya
	0	16	7	11	12	9	14
	NEHU Non-NEHU		Total				
	20 3		23				
c) Number of students qualifying NET:							2

Degree Awarded:

Ph.D.

Laishram Indira Singh, "Molecular characterization of tumor-associated antigens in mice exposed to chemical carcinogens". Supervisor: Dr A. Alam.

Omarlin Kyndiah, "Studies on physiological and biochemical aspects of sporulation in nitrogen-fixing cyanobacterium *Nostoc* sp. Supervisor: Prof A.N. Rai.

L. Kma, "Study on molecular characteristics of chromosomes during chemical induced cellular transformation". Supervisor: Prof R.N. Sharan.

Placement of students in various services:

During the year 2003-2004 three students of the department have joined

different colleges in and around Shillong. One of the students has joined the department as a Junior Technical Assistant. Four students are enrolled for PhD work while two have gone outside the state to pursue higher studies.

Courses Conducted:

Semester-I: Introductory Biological Chemistry, Environmental Biochemistry & Metabolic Pathways-I, Enzymology and Biochemistry Practical.

Semester-II: Techniques in Biochemistry, Physiological Chemistry, Bioenergetics and Biochemistry Practical.

Semester-III: Genetics, Medical Biochemistry, Metabolic pathways-II

and Biochemistry Practical.

Semester-IV: Molecular Biology, Microbiology, Immunology and Biochemistry Practical.

Study Tours of the Students:

Study tour for the M.Sc. students was undertaken to different academic institutions in Jaipur, Delhi and adjoining areas from January 31, 2004 to February 18, 2004. Dr L. Kma and Ms. Rima M. Sunn were the teachers-in-charge.

Seminar/Conferences:

Attended:

Prof. A.N. Rai (1) presented a paper titled "Need for microbial database & Networking at NBAIM - CAB" at the international workshop on "Isolation, Prevention & Conservation of microorganisms" held on 16-17 March 2004 in New Delhi. (2) Delivered the keynote address on "Blue-green algae in symbiosis: potential for creating new nitrogen-fixing associations" at the national symposium on "Recent Trends in algal biology & Biodiversity" held on February 4-5, 2004 in Patiala. (3) Delivered the inaugural address on "Algal Biology & Biotechnology" at the national symposium on "Recent Trends in Algal Biology & Biotechnology" held on February 4-5, 2004 in Patiala. (4) Delivered the keynote address at the national seminar on "Impact of

Changing Climate on Biodiversity Conservation & Ecofunctional Status". Held on January 15-17, 2004 in Gwalior.

Prof. R. Sharma (1) presented a paper titled "Dietary restriction modulation of γ -glucocorticoid receptors in the liver of mice at adult and old ages" at the "7th Asia/Oceania Regional Congress of Gerontology" held on November 24-28, 2003 in Tokyo, Japan. (2) Presented a paper titled "Age related regulation of glucocorticoid receptors during dietary restriction in mice" at the 6th Japan-Korea workshop on Cancer and Aging Research, held on February 11-13, 2004 in Tokushima, Japan. (3) Delivered a lecture on "Dietary restriction modulation of glucocorticoid receptors during aging: Theories of aging- an overview" on February 12, 2004 at the Institute for Enzyme Research, Tokushima University, Japan. (4) Gave a talk on "Age related regulation of glucocorticoid receptors during dietary restriction in mice" on February 17, 2004 at the Department of Biochemistry, Toho University, Japan.

Prof. R.N. Sharan delivered a talk titled "Slot- and Western blot immunoassays of poly-ADP-ribosylation of mouse blood lymphocyte proteins and initiation of carcinogenesis: A possible screening tool for early detection of cancer" at the

"7th International Symposium on Predictive Oncology & Intervention Strategies" held at Nice, France on February 7-10, 2004.

Publications:

Dutta, D. and R. Sharma. 2003. Regulation of hepatic glucocorticoid receptors in mice during dietary restriction. *Horm. Metab. Res.*, 35: 415-420.

Kma, L. & R. N. Sharan. 2003. Negative correlation between poly-ADP-ribosylation of mouse blood lymphocyte protein and dimethylnitrosamine induced initiation of carcinogenesis revealed by slot- and Western blot immunoassays. *Proc. Natl. Acad. Sci. India*, 73B (1): 43-51.

Naguyen, V.T., V. Singh, V. Y. Butnev, C. M. Gray, W. Westfall, J. S. Davis, J. A. Dias and G.R. Bousfield. 2003. Inositol phosphate stimulation by LH requires the entire aAsn56 oligosaccharide. *Molecular and Cellular Endocrinology*, 199: 73-86.

Shah, K., C. Penel, J. Gagnon and C. Dunand. 2004. Purification and identification of a Ca²⁺-pectate binding peroxidase from *Arabidopsis* leaves. *Phytochem*, 65: 307-312.

Sharan, R.N. 2003. Preparedness to respond to possible act of nuclear terrorism: some strategies and recommendations. *Int. J. Radiat. Biol.*, 79: 217-219.

Sharan, R.N. 2003. Nuclear terrorism perception: some strategies and recommendations to handle a disaster scenario. *Curr. Sci.*, 85: 14.

Funds received from agencies other than NEHU:

1. UGC- Special Assistance Programme (UGC-SAP) = 19.2 lakhs
2. Department of Science & Technology, New Delhi = 11.0 lakhs

Infrastructure facilities acquired during the year:

A half module of the department building was constructed. Purchased a PCR thermal cycler (Techne), a MilliQ water purifying system, a Gel documentation and imaging system (UVP, U.K.), an Oxygen electrode (Clark type) and a computer.

Research Projects:

a) Ongoing:

i) DST sponsored major research project entitled "Dietary regulation of glucocorticoid receptors in mice" under Prof. R. Sharma.

ii) NEC sponsored major research project "North Eastern Biodiversity Research Cell" under Dr. D. Syiem as Principal Co-investigator.

b) New:

i) UGC- Special Assistance Programme (UGC-SAP)

Coordinator: Prof A.N. Rai

Total grant: 31.9+ lakhs

ii) "Purification, characterization and possible function of isoperoxidases in cell wall of rice seedlings growing under heat injury and heavy metal stress"

Principal Investigator: Dr. Kavita Shah

Total grant: 11 lakhs

Source: Department of Science & Technology, New Delhi.

Academic Collaborations:

Prof. R. Sharma collaborated with the Department of Biochemistry, Toho University, Chiba, Japan on Histone carbonylation during aging and dietary restriction in rats (November 2003-April 2004). And Professor Vinod Singh collaborated with Tumor Targeting Laboratory, Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan on the "Development of Bispecific Antibodies for Tumor Targeting".

Students receiving financial assistance:

All M.Sc. students and research scholars are getting some kind of financial assistance (Merit Scholarship, Post Matric Scholarship, Free Studentship, NET, GATE, from projects

or state scholarships).

Other Activities:

i) Prof. R. Sharma was Visiting Professor at the Department of Biochemistry, Faculty of Pharmaceutical Studies, Toho University, Japan from November 2003 to April 2004.

ii) Prof. A. N. Rai attended the PIHEAD (Promotion of Indian Higher Education Abroad) meeting of Vice-chancellors at Kolkata held in December 2003 and convened by the UGC.

iii) Dr. D. Syiem was inducted as a member of State Level Planning Committee for preparation of draft on medicinal plants under the Global Environment Facility in collaboration with FRLHT, Bangalore, April 2003. He was also elected as a member of Board of Directors, Meghalaya Tourism Development Corporation (MTDC), 2003 till date, and a member of NEHU SC/ST advisory committee 2004.

iv) Two students from Bundelkhand University, Mr. Probin Phanjam (Department of Biotechnology) and Mr. Laxmikant Gupta (Department of Biochemistry) spent two months each in the department as trainee students.

DEPARTMENT OF BOTANY

Thrust Area of Research:

Ecology of agro-forestry ecosystem; microbial diversity and its conservation; survey of plant genetic resources of the region, their taxonomic characterization and establishment of physical and electronic herbaria; conservation of

plant diversity; establishment of gene bank of the region; cryo-preservation of genetic resources of the region; molecular characterization of rare, endangered and endemic plants of the region; documentation of plant genetic resources using molecular markers; identification and isolation of

Head	: Professor Arvind K. Misra
Faculty	:
Professors	: R. S. Tripathi, M. Sc. (Agra), Ph. D. (BHU) P. Tandon, M. Sc. (Lucknow), Ph. D. (Jodhpur) H. N. Pandey, M. Sc./ Ph. D. (BHU) A. K. Misra, M. Sc./ Ph. D. (Meerut) N.K. Chrungoo. M. Sc. / Ph. D. (Kashmir)
Readers	: R. C. Laloo, M. Sc. / Ph. D. (Gauhati) M. S. Dkhar, M. Sc. / Ph. D. (NEHU) Y. Kumar, M. Sc. / Ph. D. (NEHU) L. Kharluki, M. Sc. (NEHU), Ph. D. (IARI) N. Venugopal, M. Sc. / Ph. D. (Madras) S. K. Barik, M. Sc. (Berhampur) Ph. D. (NEHU) Uma Shankar, M.Sc (Agra) Ph.D (NEHU)
Lecturers	: H. Kayang, M. Sc. / Ph. D. (NEHU) S. Kumaria, M. Sc. / Ph. D. (NEHU)

Visiting Professors/Fellows/Scholars:

Prof. David Myrold of Oregon State University, Corvallis, USA visited the department as part of Indo-US Project during April 2003 and delivered a lecture on "Molecular Approaches to Microbiology and Ecology".

A group led by the Director, National Bureau of Plant Genetic Resources, New Delhi visited the department on June 5, 2003 to identify the areas for increased cooperation in research between the Department of Botany and

the NBPGR. Emerging areas of research for mutual benefits were short-listed. Dr. A. Lahiri Mazumdar, Bose Institute, Kolkata delivered a talk on "Regulation of Myo-Inositol Synthase" on October 28, 2003.

Student Intake:

- (a) Enrolment capacity: M. Sc.: 23, and Ph.D.: variable
- (b) Actual admission:
 - M Sc: 23 (Male 11, Female 12; ST 14, SC 0, General 9)
 - Ph D: 8 (Male 5, Female 3; ST 6, SC 0, General 2)
- (c) Number of students qualifying NET: 3

genes coding desirable traits and their use in plant improvement programmes, molecular phylogeny and ecology, marker assisted plant improvement with special reference to actinorhizal symbiosis, development of molecular markers for native and transgenic bioinoculants with special reference to intellectual property rights issues.

Academic Activities:

Intake capacity was increased from 20 to 23 students at M. Sc. level. A total of 8 Ph.D. students were admitted during the year. Externally funded research projects received was worth Rs. 98.78 lakhs. Distinguished visitors delivered lectures to the faculty and students from time to time. Three meetings of national importance were organized. Establishment of on-campus botanic garden at the university was completed. The department organised a meeting of the Advisory Committee of the UGC-DSA

(Phase II) and the Advisory Committee of the UGC-COSIST programme. Educational excursion for postgraduate students was undertaken during January-February 2004.

Degrees Awarded:

Ph.D.

1. Ms. Sangeeta Bharali, "Isolation cloning and molecular analysis of the legumin gene of common buckwheat (*Fagopyrum esculentum*) Moench". Supervisor: Professor N.K. Chrungoo.

2. Mr. Sorakhiabam Sureshkumar Singh, "Studies on microbial communities and their activities in degraded and undegraded forest soils of Arunachal Pradesh". Supervisor: Dr. M. S. Dkhar & Joint Supervisor: Dr. S. C. Tiwari.

3. Mr. Krishna Upadhya, "Studies on plant biochemistry and ecosystem function in sacred groves of Meghalaya". Supervisor: Prof. H. N. Pandey.

4. Mr. Nongthombam Dhirendra Singh, "Studies on the environmental Information tree rings of some tree species growing in North East India". Supervisor: Dr. N. Venugopal.

5. Mr. Hiranjit Choudhury, "Development of an Embryogenic System for Mass Propagation of *Pinus Kesiya* Royle Ex. Gord and field performance of the Regenerants". Supervisor: Prof. P. Tandon.

6. Mr. Pynsakhiat Law, "Studies on population ecology of keystone species and their role in ecosystem functions in two sacred groves of Meghalaya". Supervisor: Prof. R. S. Tripathi.

7. Mr. Om Prakash Tripathi, "Study of distribution pattern and ecological analysis of major forest types of Meghalaya". Supervisor: Prof. H. N. Pandey & Joint Supervisor: Prof. R. S. Tripathi.

Placement of students in various services:

Students passing out from this department are placed at prestigious teaching and research centres in India and abroad.

Courses Conducted:

BT-101, Algae, Bryophyta and Pteridophyta

BP-102, Algae, Bryophyta and

Pteridophyta

BT-103, Gymnosperms and Plant Anatomy

BP-104, Gymnosperms and Plant Anatomy

BT-105, Mycology and Plant Pathology

BP-106, Mycology and Plant Pathology

BT-201, Plant Taxonomy and Biostatistics

BP-202, Plant Taxonomy and Biostatistics

BT-203, Plant Biochemistry and Molecular Biology

BP-204, Plant Biochemistry and Molecular Biology

BT-205, Microbiology and Biotechnology

BP-206, Microbiology and Biotechnology

BT-301, Genetics and Plant Breeding

BP-302, Genetics and Plant Breeding

BT-303, Ecology and Environment

BP-304, Ecology and Environment

BT-305, Plant Physiology

BP-306, Plant Physiology

BT-401, Morphology and Embryology

BP-402, Morphology and Embryology

BT-403, Ecosystem analysis and Phytogeography

BP-404, Ecosystem analysis and Phytogeography

BT-405, (Special paper) Angiosperm

Taxonomy, Microbial Ecology, Forest Ecology

BP-406, (Special paper) Angiosperm Taxonomy, Microbial Ecology, Forest Ecology

Study Tours/Field Trips:

A study tour of M.Sc. (final year) students was conducted under the guidance of Dr. L. Kharlukhi with support from Mr. Kumar Sohlang. The places visited were Tropical Botanical Garden, Trivandrum. Coastal Vegetation in and around Trivandrum and Kanyakumari; Lal Bagh, Bangalore; Botanical Garden, Museum, Kolkata during January 23-February 16, 2004. The purpose of the tour was to acquaint students with the difference between the low land coastal vegetation and the high altitude of Meghalaya. The visit to botanical gardens aimed at making students aware of various conservation programmes and research activities in other parts of the country.

Seminars/Conferences/Symposia/ Extension Programmes:

Organised:

The Department of Botany and the National Bureau of Plant Genetic Resources jointly organised a brain storming session on "Management of Plant Biodiversity in NE region" at the NEHU guesthouse on October 29-30, 2003.

Training course on "Database

Creation with Emphasis on Biodiversity" sponsored by the Department of Biotechnology, Ministry of Science and Technology, Government of India (March 29-31, 2004).

Training course on "Introduction to Basics of Retrieval & Creation of Scientific Databases" sponsored by the Department of Biotechnology, Ministry of Science and Technology, Government of India (February 23-25, 2004).

Attended:

Prof. P. Tandon (1) was invited to speak on "Padap Jaiv Proudhyogiki" at the seminar on "Jaiv Proudhyogiki: Manva ki Aur" at Vigan Parishad Prayag, Allahabad on 1st August 2003. (2) Delivered a talk on "Conservation and sustainable utilization of plant resources of Northeast India for economic development" at North-Eastern Hill University, Shillong at the DoNER seminar on "Development Plan for the NE Region-Exploring Options and Possibilities" on 11-12 December 2003. (3) Chaired the session on Plenary Lectures and delivered a Plenary Lecture titled "Conservation of Plant Diversity of Northeast India in the Face of Accelerating Threats" at the national symposium on "Plant Biology and Biodiversity in Changing Environment" at Jamia Hamdard

University, New Delhi on December 29-31, 2003. (4) Chaired the session on Morphogenesis, Plant Tissue Culture and Biotechnology at the 26th All India Botanical Conference at Jamia Hamdard University, New Delhi on December 29-31, 2003. (5) Delivered a lecture titled "Improvement of Conifers Through Clonal Propagation" at the symposium on Plants for Better Living, Section of Plant Sciences at the 91st Session of Science Congress, Chandigarh on January 3-7, 2004.

Prof. H. N. Pandey (1) presented a paper titled "Ecology of Sacred groves of Meghalaya" at the national seminar on Plant Sciences, held on March 9-10, 2004 at Department of Botany, Banaras Hindu University, Varanasi. (2) Attended the international symposium on "Plant Taxonomy: Advances and Relevance" organised by IAAT and TM Bhagalpur University, Bhagalpur, on 14-15, November 2003. (3) Chaired the session on "Conservation: *in-situ*, *ex-situ* and *on-Farm*" at the brain storming session on Management of Plant Biodiversity in NE region jointly organized by the Department of Botany and the National Bureau of Plant Genetic Resources on October 29-30, 2003.

Prof. A. K. Misra (1) chaired the session on "Characterization and evaluation (including molecular analysis)" at the brain storming session on Management of Plant Biodiversity in

NE region jointly organized by the Department of Botany and the National Bureau of Plant Genetic Resources on October 29-30, 2003. (2) Shobha Rani and A. K. Misra presented a paper titled "Molecular characteristics of *Citrus* sp. of N.E. India with reference to diversity assessment and development" at the NBPGR sponsored brain storming session on Biodiversity in North-East India under the National Agricultural Technology programme on October 29-30, 2003. (3) Chaired a technical session of the brainstorming session organised by the Tea Research Association, Tocklai, Jorhat, Assam, on March 29, 2004 and delivered a talk on "DNA based molecular markers-what and how". (4) Gave a popular talk on "Fifty years of DNA" at the function organised by NEHU to commemorate the completion of fifty years of the discovery of DNA structure.

Prof. N. K. Chrungoo presented a concept paper titled "Underutilized crops: a case for molecular approaches towards characterization, evaluation and documentation" at the NBPGR sponsored brain storming session on Biodiversity in North-East India, under the National Agricultural Technology programme on October 29-30, 2003.

Dr. N. Venugopal (1) presented a paper titled "Pollen viability, pollen germination and pollen tube growth in *Nepenthes khasiana* Hk.f.

(Nepenthaceae), an endemic and endangered Insectivorous plant of North East India” at the 91st Indian Science Congress held at Chandigarh, Punjab University on 3-7, January 2004.

(2) Presented a paper titled “Biodiversity, conservation and management of some members of Podostemaceae in Meghalaya” at the NBGR sponsored Brain Storming session on Biodiversity in North-East India, under the National Agricultural Technology programme on October 29-30, 2003.

Dr. Y. Kumar (1) presented a paper titled “Documentation and conservation of ornamentally important orchids species of North-eastern India” at the Development Extension Programme by Department of Sociology, NEHU, 22nd November 2003. (2) Presented a paper on “Palynological studies on selected *Dendrobium* species of northeast India” at the international symposium on “Plant Taxonomy: Advances and relevances” organized by IAAT and Bhagalpur University, Bhagalpur, on 14th -15th November 2003.

Dr. Uma Shankar gave a talk on “Domestication of valuable forest resources for subsistence and trade: utilization, management and conservation” at the workshop on “Policies, management utilization and conservation of non-timber forest products (NTFPs) in the South Asia

region” organised by Ashoka Trust for Research in Ecology and the Environment, Bangalore and FAO, Bangkok, April 28-30, 2003.

Publications:

Arunachalam, A. and H. N. Pandey. 2003. Microbial C, N and P along a weeding region in a valley cultivation system of northeast India. *Tropical Ecology*, 44(2): 147-154.

Bhuyan P., M L. Khan, and R.S. Tripathi. 2003. Tree diversity and population structure in undisturbed and human-impacted stands of tropical wet evergreen forest in Arunachal Pradesh, Eastern Himalayas, India. *Biodiversity and Conservation*, 12(8): 1753-1773.

Mishra, B.P., R. S. Tripathi, O. P. Tripathi and H. N. Pandey. 2003. Effects of disturbance on the regeneration of four dominant and economically important woody species in a broad-leaved subtropical humid forest of Meghalaya, northeast India. *Current Science*, 84 (11): 1449-1453.

Mishra, B.P., R. S. Tripathi, O.P. Tripathi, and H. N. Pandey. 2004. Effects of anthropogenic disturbance on plant diversity and community structure of a sacred grove of Meghalaya, north-east India. *Biodiversity and Conservation*, 13: 421-436.

Misra, A. K. 2003. Development of Molecular Markers and Marker Assisted Screening of Plants. In B. G.

Unni (ed) *Application of Molecular Biology and Biotechnological Tools for Crop Improvement Programme*. Jorhat: Regional Research Laboratory, 56-59.

Pandey, H. N., O. P. Tripathi and R. S. Tripathi. 2003. Ecological analysis of forest vegetation of Meghalaya. In B. P. Bhatt, K. M. Bezbaruah, Y. P. Sharma and Patiram (ed) *Approaches for Increasing Agricultural Productivity in Hill and Mountain Ecosystem ICAR Research Complex for N. E. Region*. Shillong: ICAR, 37-50.

Singh, S., S. C. Tiwari and M. S. Dkhar. 2003. Species diversity of vesicular arbuscular mycorrhizal (VAM) fungi in jhum and natural forest soils of Arunachal Pradesh, North-Eastern India. *Tropical Ecology*, 44(2): 205-213.

Tandon, P. 2003. Biodiversity- A scientific approach: agenda for the 21st century. *National Academy Science Letters*, 26 (5 &6): 111-118.

Tandon, P. 2004. Conservation and sustainable development of plant resources of North East India. *Man and Society*, 1(1): 49-59.

Tripathi, R.S. and S. K. Barik. 2003. Shifting cultivation in northeast India. In B.P. Bhat, K. M. Bezbaruah, Y. P. Sharma and Patiram (ed) *Approaches for increasing agricultural productivity in hill and mountain ecosystem*. Shillong: ICAR Research complex for NEH Region, 317-322.

Uma Shankar, S. D. Lama and K. S. Bawa. 2003. Temporal patterns of extraction of non-timber forest products in Chel range of Darjeeling Himalaya. *Forests, Trees and Livelihoods*, 13:115-133.

Uma Shankar. 2003. Domestication of valuable forest resources for subsistence and trade: utilization, management and conservation. In A. Hiremath, G. C. Joseph & Uma Shanker (ed) *Policies, management, utilization and conservation of non-timber forest products (NTFPs) in the South Asia region*. Bangalore: Ashoka Trust for Research in Ecology and the Environment and Bangkok: FAO, 15-17.

Uma Shankar. 2003. Issues for conservation of biodiversity and wildlife habitat in Namdapha National Park. In P. P. Baruah (ed) *Biodiversity of Eastern Himalayan Protected Areas*. Guwahati: Department of Botany, Handique Girls' College, 245-53.

Uma Shankar. 2003. Wealthy wilds intimidated in Kaziranga. *Himachal Pradesh Journal of Botany*, 14:(1 &2) and 15 (1): 6-8.

Varghese R., V.S. Chauhan and A. K. Misra. 2003. Evolutionary implications of nucleotide sequence relatedness between *Alnus nepalensis* and *Alnus glutinosa* and also between corresponding *Frankia* micro-symbionts. In P. Normand, K. Pawlowski and J. O. Dawson (ed)

Development in Plant and Soil Sciences: Frankia Symbiosis. Dordrecht: Kluwer Academic Publishers, 219-227 (Reprinted).

Varghese R., V.S. Chauhan and A. K. Misra. 2003. Evolutionary implications of nucleotide sequence relatedness between *Alnus nepalensis* and *Alnus glutinosa* and between corresponding *Frankia* micro-symbionts. *Plant and Soil*, 254:219-227.

Varghese R., Vineeta S. Chauhan and A. K. Misra. 2003. Hypervariable spacer regions are good sites for developing specific PCR-RFLP markers and PCR primers for screening actinorhizal symbionts. *J.*

Biosciences, 48(4): 437-442.

Venugopal, N. and N. Rashi Devi. 2003. Development of anther in *Nepenthes khasiana* Hk.f. (Nepenthaceae), an endemic and endangered insectivorous plant of North-East India. *Feddes Reportorium*, 114(1-2): 69-73.

Funds received from agencies other than NEHU (sources and amount):

DBT : Rs. 33.84 lakhs

ICAR-NATP : Rs. 5.37 lakhs

DST-NSF : Rs. 74,000

Min. & Envi. Forests : Rs. 26.79 lakhs

TOTAL : Rs. 66.74 lakhs

Research Projects:

Ongoing

Title of the project	Name of the Principal Investigator(s)	Funds received during the year 2003-04 Rs. in Lakhs	Funding agency
Community forest management in northeast India (in collaboration with the NEHU Regional Centre of NAEB, MoEF, GOI)	R. S. Tripathi, B. K. Tiwari, S. K. Barik, Mark Poffenberger, S. Palit	9.1	Community Forestry International, at the University of California, Santa Barbara

Title of the project	Name of the Principal Investigator(s)	Funds received during the year 2003-04 Rs. in Lakhs	Funding agency
Microbial diversity of North Eastern Region with special reference to wood rotting fungi.	M. S. Dkhar H. Kayang	8.79	DBT, New Delhi
Molecular Diversity and Ecology of actinorhizal symbionts found in the Sikkim region of Eastern Himalayas	A. K. Misra (P.I.) R. S. Tripathi (Co-Investigator)	0.74	DST-NSF
National Agricultural Technology Project on Buckwheat	N. K. Chrungoo (P.I.)	5.36	World Bank-ICAR
Mass micropropagation of orchids towards socio-economic upliftment of women folk in Meghalaya	S. Kumaria	8.68	DBT, New Delhi
Conservation of plant diversity of North-East India with special reference to rare and endangered plants	P. Tandon	5.16	DBT
Bioinformatics Centre	P. Tandon	17.60	DBT
Development of tools for molecular typing of native and transgenic cyanobacteria and rhizobium strains.	A. K. Misra	2.29	DBT
Studies on forest fragmentation and its impact on population ecology of threatened &	H. N. Pandey S. K. Barik	18.79	Min. Envi. Forest Govt. of India

Title of the project	Name of the Principal Investigator(s)	Funds received during the year 2003-04 Rs. in Lakhs	Funding agency
ethnobotanical plant species of Kanchendzonga Biosphere			
Eco-restoration and conservation of degraded groves of Meghalaya	H. N. Pandey S. K. Barik	5.91	G.B. Pant Institute of Him. Env. and Development

New:

Title of the project	Name of the Principal Investigator(s)	Funds received during the year 2003-04 Rs. in Lakhs	Funding agency
Ecological analysis of selected agro-forestry systems in Meghalaya	R. S. Tripathi (P.I.) H.N. Pandey (Co-Investigator)	7.73	ICAR, New Delhi
Isolation & Functional characterization of promoter for the gene cloning for 26kDc lysine rich seed globulin from common buckwheat	N. K. Chrunghoo	8.63	DBT

Academic Collaborations:

I. Indo-US collaborative research programme funded by the Department of Science and Technology, Government of India and National Science Foundation, US Federal

Government.

Indian P.I. Prof. A. K. Misra
 Co-P.I. Prof. R. S. Tripathi
 US P.I. Prof. David Myrold
 Dr. Myrold visited the Department of Botany in April 2003 and also visited

the site in Sikkim with Prof. A. K. Misra.

II. Community Forestry Project in North-East India:

(A Collaborative project between Community Forestry International Inc. Santa Barbara, USA and NEHU)

Indian Collaborators:

1. Prof. R.S. Tripathi
2. Prof. B. K. Tiwari
3. Dr. S.K. Barik

International Collaborators:

1. Dr. Mark Poffenberger
2. Mr. S. Palit

Dr. Uma Shankar collaborated with Professor R. Gilmore Pontius, Jr. of the Department of Geography, Clark University, MA, USA during his BOYSCAST tenure and developed a follow-up plan to organize a short-term workshop on application of remote sensing and geographical information systems in conservation of biological diversity in the tropics.

Honours/Awards/Recognition:

Prof. R. S. Tripathi (1) was nominated by the Ministry of Environment and Forests, Government of India, as a member of the National Advisory Committee on Biosphere Research, and a member of the Indian National MAB Committee on Ecosystem Research. (2) He was commissioned by the National Afforestation and Ecodevelopment

Board, Ministry of Environment and Forests, Govt. of India, to evaluate the achievements of Bareilly Cantonment Board for the award of Indira Priyadarshini Vrikshamitra Award. (3) He was also unanimously elected as the President of Indian Botanical Society for the year 2004. (4) Finally, he was nominated by Development Alternatives (a Delhi based NGO) and the Govt. of Meghalaya to serve as the Project Director for the State Environment Reporting (SOE) for Meghalaya.

Prof. P. Tandon was appointed as one of the editors of the *Journal of Indian Botanical Society* w.e.f. February 2004.

Prof. A. K. Misra was appointed as a referee for *Journal of Plant & Soil* (Netherlands) and the *Canadian Journal of Microbiology*. He was also elected to the Tea Improvement Consortium by the Tea Research Association, Tocklai.

Dr. Uma Shankar was awarded the BOYSCAST Fellowship in 2003 by the Department of Science and Technology, New Delhi, for a period of six months (July-December 2003) to visit the Georgia Perkins Marsh Institute of Clark University, MA, USA.

Other Activities:

On the invitation of the International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, Prof. R. S. Tripathi

participated in the planning workshop on "Regional programme to strengthen equity and livelihood security through sustainable management of Biodiversity resources for the Indigenous peoples of the eastern himalayas" held at Kathmandu on 2-3 November 2003 and helped ICIMOD in developing a long-term research project on the above subject to be submitted to the German Technical Cooperation (GTZ) for financial support from the German Finance Ministry (BMZ). He was also invited by the University of Manipur to be the Guest of Honour at the Inaugural function of the UGC Refresher Course in Life Science. He delivered a series of three lectures there.

Prof. P. Tandon attended the refresher course on IPR in Biotechnology for the project investigators of DBT at National Law School of India University, Bangalore during March 17-22, 2004. He was invited by Fort Valley State University,

Fort Valley, USA to attend the meeting of collaborators and to discuss and explore possibilities of planning collaborative research on medicinal plants during 31st October- 15th November 2003. He visited the Institute of Paper Science & Technology, Georgia Institute of Technology, Atlanta for scientific discussions.

Prof. A. K. Misra delivered a series of lectures on Molecular Biology and Genetics to university and college lecturers from various parts of the country, as part of UGC refresher course in Botany, organised by Mizoram University, Aizawl, in May 2003.

Dr. Uma Shankar visited the Department of Biology, University of Massachusetts, Boston, MA, American Museum of Natural History, New York, Harvard Forest's Long-Term Ecological Research Station, Petersham, MA, and the University of Central Florida-Florida Hospital-Cancer Institute, Orlando, FL.

DEPARTMENT OF ZOOLOGY

Thrust Area of Research:

Functional Biology.

Brief Statement of Academic Activities:

Based on overall academic and

research contributions, the department was awarded the third phase of the DRS scheme by the University Grants Commission under Special Assistance Programme to promote higher research with special reference to the region.

Head	:	Professor B.B.P. Gupta
Faculty	:	
Professors	:	K.Chatterjee*, M.Sc., Ph.D.(Kalyani) Cytogenetics A. Raghvarman**, M.Sc., Ph.D. (Madr.) Entomology V. Tandon, M.Sc.(Hons.), Ph.D. (Panj) Parasitology B. K. Sharma, M.Sc.(Hons.), Ph.D. (Panj) Limnology & Biosytematics B. B. P. Gupta, M.Sc., Ph.D. (BHU) Endocrinology S. B. Prasad, M.Sc., Ph.D. (BHU) Cell Biology and Immunology R. N. K. Hooroo, M.Sc., Ph.D. (NEHU) Developmental Biol. N. Saha, M.Sc., Ph.D. (NEHU) Biochem. Adaptation B. Kharbuli, M.Sc., Ph.D. (NEHU) Entomology Debjani Roy (Temp. Attached)
Readers	:	A. Chatterjee, M.Sc.(Burdwan) Ph.D. (BHU) Genetics & Mol. Biol. A. K. Yadav, M.Sc. (Agra) Parasitology. Ph.D. (NEHU)
Lecturers	:	S. C. Choudhury, M.Sc., Ph.D. (NEHU) Entomology S. R. Hajong, M.Sc., Ph.D. (NEHU) Entomology

* Retired on September 30th, 2003; ** Retired on June 30th, 2003

Students Intake:

(a) Actual admission:	SC	ST	Gen	Male	Female	Total
M.Sc.	-	20	4	13	11	24
Ph.D.	-	10	4	11	3	14

(b) Number of Students & Research Scholars receiving financial aid:

	Total	Receiving Financial Aid	Not Receiving Financial Aid
M.Sc. : 45		44	
Ph.D. : 52		42	10 (Teacher Fellows/ Part-time scholars)

(c) Number of students and research scholars from NEHU and from outside NEHU

	Total	From NEHU	Outside NEHU
M.Sc.:	45	45	nil
Ph.D.:	52	43	09

(d) Number of students and research scholars from Meghalaya and outside Meghalaya

	Total	From Meghalaya	Outside Meghalaya
M.Sc.:	45	29	16
Ph.D.:	52	30	22

Degrees Awarded:

Ph.D.

1. Mr. Pradip Kumar Kar, "An *in vitro* study on the efficacy of some putative anthelmintic plants against the trematode parasite, *Fasciolopsis buski*". Supervisor: Prof. (Mrs) V. Tandon.

2. Mr. Dainingstar Marngar, "Studies on some aspects of insect-plant interactions". Supervisor: Prof. B. Kharbuli.

3. Ms. Carina Goswami, "Mechanism of cell volume regulation, and the effect of cell volume changes on glucose metabolism and oxidative stress in perfused liver of fresh water air-breathing walking catfish, *Clarias batrachus*". Supervisor: Prof. N. Saha.

Courses Conducted:

Following courses were conducted:

Semester I: Cell Biology & Immunology; Molecular Biology; Animal Physiology.

Semester II: Biological Chemistry; Genetics and Developmental Biology; Parasitology and Entomology.

Semester III: Ecology and Environmental Biology; Endocrinology and Reproductive Biology; Aquatic Biology and Fisheries.

Semester IV: Biosystematics & Evolution; Techniques in Biology and Biometrics; Special Papers.

Special Papers offered:

Biochemical Adaptation, Cell Biology & Immuno-biology, Endocrinology and Reproductive Physiology, Entomology, and Limnology.

Study Tour/Field Trips:

Prof. B. Kharbuli and Dr. S. R. Hajong took the M. Sc. students on a study tour (duration: 18 days; January 5th to 18th, 2004) to Mumbai, Goa and Kolkata.

Seminars/Conferences/Symposia etc.:
Organized:

Prof. B. B. P. Gupta, Co-ordinator, organized a "Training programme on Animal Tissue Culture", sponsored by the National Centre for Cell Science (an autonomous institute of DBT) at the University of Pune on 15th-20th September 2003.

Dr. A. Chatterjee, Convenor, organized the celebration of the "Golden Jubilee of the Discovery of DNA Double-Helix" at the Science Seminar Complex, NEHU on 11th

November 2003.

Attended:

Prof. Veena Tandon participated in the 3rd Global Meet on Parasitic Diseases held on January 12-16, 2004 at Bangalore and presented a paper titled "Anthelmintic efficacy of *Stephania glabra* and *Trichosanthes multiloba* against hookworms: an *in vitro* study on *Ancylostoma ceylanicum*".

Prof. S. B. Prasad attended the 91st Indian Science Congress at Chandigarh, January 3-7, 2004 and presented a paper titled "Cisplatin treatment of tumor-bearing mice affects tissue glutathione level and the activity of some glutathione related enzymes" in New Biology Section. He also attended the 23rd Annual Convention of the Indian Association of Cancer Research, January 29-31, 2004 and presented a paper titled "Effect of ascorbic acid on the cyclophosphamide-mediated antitumour efficacy and micronuclei frequency in Dalton's lymphoma bearing mice".

Dr. A. Chatterjee attended the national seminar on "Radiation & Biomolecular Techniques in Animal Sciences and Human Health" on March 10-12, 2004 at the College of Veterinary Science, Assam Agricultural University, Guwahati, and presented a paper titled, "Interaction of radiation and bleomycin

induced DNA lesions in glutathione-depleted mammalian cells".

Dr. A. K. Yadav participated in the III International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria held at Department of Entomology, Ohio State University, Ohio (USA), on 4-7 September 2003 and presented a paper titled "Survey of entomopathogenic nematodes (EPNs) in Meghalaya, India".

Publications:

Ao, B., A. Raghuvaman and B. Kharbuli. 2003. Determination of ascorbic acid content in the ocular tissues of *Gallus domesticus* and *Columba livia intermedia* (Strickland): Its probable role in vision. *NURJ*, 1: 78-83.

Donner, M. G., U. Warskulat, N. Saha and D. Häussinger. 2004. Enhance expression of basolateral multidrug resistance protein isoforms Mrp3 and Mrp5 in rat liver by LPS. *Biological Chemistry*, 385: 331-39.

Kharbuli, B., H. Kayang and D. D. Nengnong. 2003. Biodiversity conservation through sacred groves. In J. Handoo, D. Kharmawphlang and Sujit Som (ed) *Folklore in the changing times*. Bhopal : Indira Gandhi Rashtriya Manav Sangrahalaya (IGRMS), 66-76.

Khyriam, D and S. B. Prasad. 2003. Changes in endogenous tissue glutathione level in relation to a murine ascites tumor growth and the

anticancer activity of cisplatin. *Brazilian J. Medical Biol. Res.*, 36: 53-63.

Kubitz R., N. Saha, T. Kühlkamp, S. Dutta, S. vom Dahl, M. Wettstein and D. Häussinger. 2004. Ca²⁺ dependent protein kinase C-isoforms mediate cholestasis in rat liver. *Journal of Biological Chemistry*, 279: 10323-10330.

Kumpawat, K., S. Deb, S. Ray and A. Chatterjee. 2003. Genotoxic effect of raw betel-nut extract in relation to endogenous glutathione levels and its mechanism of action in mammalian cells. *Mutation Research*, 538: 1-12.

Lyndem, L. M & V. Tandon. 2003. Hookworm infection: Prevalence among the tribal populations of Meghalaya (Northeast India) and development of the infective stage larvae under varied environmental conditions. *National Academy Science Letter*, 26 (3 & 4): 93-100.

Marngar, D and B. Kharbuli. 2003. Life cycle of small rice grasshopper. *Oxya hyla* (Serville)- *GEOBIOS*, 30: 145-150.

Marngar, D and B. Kharbuli. 2003. Insecticidal activity of *Ageratum conyzoides* against the *Oxya hyla* nymphs. *Journal of Allelopathy*, 12(1): 81-88.

Marngar, D., B. Kharbuli, D. Wanswett and R. N. K. Hooroo. 2003. Bioactivity of *Ageratum conyzoides* against small rice grasshopper *Oxya hyla*. *Uttar Pradesh J. Zool.*, 23: 1-5.

Roy, B, & V. Tandon. 2003.

Fasciolopsis buski. In M. D. Miliotis & J. W. Bier (ed) *International Handbook of Foodborne Pathogens*. New York: Marcel Decker, Inc., 562-570.

Roy, D., A. Choudhury and B. Borah. 2004. Role of weather condition on the daily appearance and advertisement call initiation time of *Polypedates leucomystax* during breeding season. *Zoos' Print Journal*, 19(3): 1408 -1410.

Saha, N and C. Goswami. 2004. Effects of anisotonicity on pentose-phosphate pathway, oxidized glutathione release and t-butylhydroperoxide-induced oxidative stress in the perfused liver of air-breathing catfish, *Clarias batrachus*. *Journal of Biosciences*, 29(2): 101-109.

Saha, N., S. Datta, K. Biswas and Z. Y. Kharbuli. 2003. Role of ureogenesis in tackling problems of ammonia toxicity during exposure to higher ambient ammonia in the air-breathing walking catfish, *Clarias batrachus*. *Journal of Biosciences*, 28(6): 733-742.

Schmidt-Rhaesa, A and A. K. Yadav. 2004. On the occurrence of *Chordodes* cf. *furnessi* from praying mantis in India, and a note on Indian nematomorph species. *Current Science*, 86: 1023-1027.

Seglie, D., D.Roy, C.Giacoma and M. Mushahidunabbi. 2003. Distribution and conservation of the Himalayan Newt (*Tylototriton*

verrucosus, Urodela: Salamandridae) in the Darjeeling District, West Bengal (India). *Russian Journal of Herpetology*, 10 (20): 159-164.

Sharma, B. K. 2004. Rare and interesting monogonont rotifers (Rotifera, Eurotatoria) from North-Eastern India. *Mitt. Mus. Nat. kd. Berl. Zool. Reihe.*, 80(1): 33-40.

Sharma, B. K. and R. M. Lyngdoh. 2003. Abundance and ecology of Net and Phytoplankton of a subtropical reservoir of Meghalaya (N. E. India). *Ecol. Env. & Cons.*, 9 (4): 485-491.

Tandon, V. 2003. Spectrum of helminth parasites in Northeast India. In M. L. Sood (ed) *Helminthology in India*. Dehradun: International Book Distributors, 57-76.

Tandon, V., B. Das and N. Saha. 2003. Anthelmintic efficacy of *Flemingia vestita* (Fabaceae): effect of genistein on glycogen metabolism in the cestode, *Raillietina echinobothrida*. *Parasitology International*, 52 (2): 179-183.

Tangpu, V. & A. K. Yadav. 2004. Antidiarrhoeal Activity of *Rhus javanica* Ripen Fruit Extract in Albino Mice. *Fitoterapia*, 75: 39-44.

Tangpu, V. and A. K. Yadav. 2003. *In vitro* Filaricidal Activity of some Folklore Medicinal Plants of Manipur, India. In N. Gupta and D. K. Gupta (ed) *Parasites and Diseases*. Bareilly: Neeraj Publishers, 127-132.

Temjenmongla and A. K. Yadav. 2003. Filaricidal Efficacy of Some Folklore Medicinal Plants against *Setaria cervi* (Nematoda: Filarioida). *Proc. Zool. Soc.*, 56: 57-61.

Funds received from agencies other than NEHU/UGC:

Rs. 20.17 lakhs (approx.).

Research Projects:

Ongoing:

Prof. (Mrs) V. Tandon, "All India Co-ordinated Project on Capacity building in Taxonomy- Research on Helminths & Nematodes". Grant of Rs. 2.74 lacs per annum; sponsored by the Ministry of Environment & Forests, GOI.

Prof. B. K. Sharma, "Biodiversity and ecology of zooplankton of floodplain lakes of Assam and Manipur (N. E. India). Total grant: Rs. 3,48,800 Source: GB Pant Inst. of Himalayan Env. & Development.

Prof. B. B. P. Gupta, "*In vitro* studies on adrenergic regulation of N-acetyltransferase (NAT) activity in fish pineal". Total grant 14.7 Lakhs. Duration: 3 yrs. Sponsored by DST, New Delhi.

Prof. N. Saha, "Culture of carps and air-breathing fishes in hilly region and transfer of technology to rural population of Meghalaya". Sponsored by DBT, New Delhi. Total grant: Rs. 9.31 Lakhs. Duration: 2002 to 2005.

Prof. RNK Hooroo, Prof. BBP

Gupta and Prof. K. Chatterjee, "Study of distribution, ecology, reproduction and development of tree frogs of Meghalaya with special reference to Cherapunjee". Sponsored by DST, New Delhi. Rs. 9 Lakhs. 2002-2004.

Dr. A. Chatterjee, "The influence of endogenous glutathione on the induction of delay in cell cycle, chromosome aberrations and apoptosis by high and low LET irradiation and the involvement of p53-dependent pathway in it". Sponsored by NEC/UGC Rs. 3.5 Lakhs, 2003 to 2005.

New:

Prof. B. K. Sharma and Prof. B. Kharbuli (Co-PIs), "Baseline environmental survey of Domiasiat and adjacent areas". PI: Prof. D. T. Khating. Total grant: 1.2 crores, Sources: DST/ DAE.

Prof. B. Kharbuli, "Conservation and Sustainable Utilization of Medicinal Plants in Meghalaya". Total Grant: Rs. 3 lakhs. Source: UNDP/MoEF, India/ FRLHT.

Dr. A. Chatterjee, "Loss of heterozygosity on specific chromosomal arms and identification of sister-chromatid separation in oral carcinoma induced by raw betel-nut in Meghalaya". Rs. 14 Lakhs. Source: DBT, Govt. of India.

Honour/Award/Recognition:

Prof (Mrs) V. Tandon was

awarded a Chair in Taxonomy-Animal Sciences, 2003 for 3 years by the Ministry of Environment & Forests, Govt. of India. She was also nominated as a member of the 'Health Advisory Committee' for the Lady Hydari Park Mini Zoo, Shillong, Forests & Environment Department, Govt. of Meghalaya.

Other Activities:

Prof. A. Raghuvarman retired in June 2003 and Prof. K. Chatterjee retired in September 2003 from the department.

Dr. S. B. Prasad was a resource person in the refresher course in Dibrugarh University and delivered 4 lectures on Cell Biology and Immunology.

Ms. Shritapa Datta (Supervisor: Prof. N. Saha) was awarded the "ISCA Young Scientist award" by the Indian Science Congress Association.

Prof. N. Saha acted as a resource person in the refresher course in Gauhati University and delivered 4 lectures on Animal Physiology and Biochemistry.

Dr. A. Chatterjee acted as a resource person in the refresher course in Gauhati University and delivered 4 lectures in Genetics and Molecular Biology.

Prof. B.B.P. Gupta availed Senior DAAD Fellowship for 2 months (w.e.f. 1.10.2003 to 30.11.2003) at the Institute

of Anatomy, Faculty of Medicine, University of Mainz, Mainz, Germany, to undertake a research project on adrenergic signal transduction in mammalian pineal gland.

Prof. S. B. Prasad went as a Visiting Professor to the Department of Zoology, Arunachal University during April 4-15, 2003 and delivered

lectures in the Cell Biology and Immunology courses for M. Sc. students.

Dr. A. Chatterjee went as a Visiting Scientist to the Department of Pathology, Presbyterian Hospital, Columbia University, New York, USA for 6 months (w.e.f. January to June 2003).

V

School of Physical Sciences

The School of Physical Sciences comprises the departments of Chemistry, Mathematics, Physics and the Centre for Applied Statistics. There are 40 members on the faculty, and it admits approximately 115 new students each year. This provides an ideal faculty to student ratio for the pursuit of teaching, and fosters meaningful interactions between students and teachers. Each department in the school has a good library, well-equipped laboratories, computer networking and Internet facilities. The component of project work in the final semester of the M.Sc. programmes has been beneficial to our students, in providing them with basic training to develop research methodology and also an insight into the research programmes being pursued by the departments. Each department has well-identified thrust areas of research, which also encompass areas of inter-disciplinary nature, thus contributing to extensive academic collaboration of the faculty with national and international

institutions. An important feature of the academic programmes includes the visits by faculty members from various institutions for giving lectures and for research interactions with the faculty members. The departments receive Special Assistance Programmes (DSA) of the UGC, and FIST of the DST, besides individual research projects funded by UGC, DST, CSIR, NEC and NBHM. The research works have been published in international journals of high repute, and members of the faculty have been regularly invited to speak at important national and international conferences. In addition to teaching and research at the M.Sc., M.Phil and Ph.D. levels, the school also provides PG diploma courses in Applied Statistics, conducts refresher courses for university and college teachers, organises study tours for students to visit research institutions, and imparts training to college and school students in preparation for the Mathematics Olympiad at the regional and national levels.

DEPARTMENT OF CHEMISTRY

Thrust Areas of Research:

Chemical Dynamics, Natural Product Chemistry, Coordination Chemistry and Homogeneous Catalysis, Theoretical organic and Bio-organic Chemistry, Chemistry of Porphyrins and Related systems, Chemistry of Surfactants, Transport Behaviour of Supercooling systems, Organometallic Chemistry. Theoretical

Reaction Kinetics and Chemical Reactivity, Laser Spectroscopy, Photocatalysis and Photophysics.

Brief Statement of Academic Activities:

32 M.Sc. and 13 Ph.D. students have been admitted to the department and 3 students were awarded Ph.D. degree. One student qualified the

Head : Professor R.K. Poddar

Faculty :

Professors : M.K. Mahanti, M.Sc., (Madr.), Ph.D. (Berh.)
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 Madr.)
R.A. Lal, M.Sc., Ph.D. (BHU)

Readers : A. Lemtur, M.Sc. Ph.D. (NEHU)
K. Mohan Rao, M.Sc., (S.V. Univ.), Ph.D. (IIT Kanpur)
Dr. A.K. Chandra, M.Sc. Ph.D. (Burdwan Univ.)

Lecturers : S. Aravamudhan, M.Sc. (S.V. Univ.), Ph.D. (IIT Kanpur)
T.S.B. Baul, M.Sc. (Jabalpur Univ.), Ph.D. (N. Bengal Univ.)
R.L. Nongkhlaw, M.Sc., Ph.D. (NEHU)
E.K. Rymmai, M.Sc. (NEHU)
D.P.S. Negi, M.Sc., (Roorkee Univ), Ph.D. (IIT Roorkee)
S. Mitra, M.Sc., (Vidya Sagar Univ.), Ph.D. (IACS, Jadav.)

Visiting Professors/Fellows/Scholars:

1. Dr. T. Pal, Department of Chemistry, IIT, Kharagpur visited the department on 25th April 2003 in connection with the DST-PAC (Physical Chemistry) meeting and gave a seminar on the topic "Micelle mediated nanoparticle catalysis."

2. Dr. S. S. Manoharan, Department of Chemistry, IIT Kanpur visited the department on 26th April 2003 in connection with the DST-PAC (Physical Chemistry) meeting and gave seminar on the topic "Novel nanostructures with unusual magnetic & transport properties".
3. Prof. G. P. Panigrahi, Department of Chemistry, Berhampur University, Berhampur visited the department on 17th June April 2003 in connection with Ph.D. viva-voce and gave a seminar on the topic "Peroxomonophosphate oxidation reactions".
4. Dr. R. A. Singh, Department of Chemistry, Banaras Hindu University, Varanasi visited the department on 30 June 2003 and gave a seminar on the topic "Molecular world: Chemistry at the frontier".
5. Prof. J. Subramanian, Department of Chemistry, Pondicherry University visited the department on 9 October 2003 and gave a seminar on the topic "Application of EPR spectroscopy to some problems of chemistry and food science".
6. Prof. F. E. Smith, FRSC, Prof. Emeritus, Laurentian University, Canada visited the department on 16th January 2004 and gave a seminar on the topic "The development of microwave assisted chemistry: A review of this important new field".
7. Prof. Samaresh Mitra, DAE-BRNS Senior Scientist, IICB, Kolkata, visited the department on 19th March 2004 and gave a seminar on the topic "Bioinorganic Chemistry: Present status and future direction".

Student Intake:

a) Enrolment capacity: M.Sc.: 32

b) Actual Admission :	SC	ST	GEN	MALE	FEMALE	TOTAL
	-	27	05	16	16	32

a) Enrolment capacity: Ph.D.:

b) Actual Admission :	SC	ST	GEN	MALE	FEMALE	TOTAL
	-	09	04	06	07	13

c) No. of students qualifying NET/GATE/SLET : 02

No. of students and research scholars from NEHU, from outside NEHU, from Meghalaya and from outside Meghalaya:

	From NEHU	Outside NEHU	From Meghalaya	From outside Meghalaya
M.Sc. students:	29	03	20	12
Research Scholars:	13	-	11	02

CSIR/UGC NET examination and one student qualified the GATE. Five new faculty members joined the department increasing the faculty strength to 15. The UGC has selected the department for support under the SAP-DSA programme during this year. There are individual research schemes funded by agencies like DST, NEC, UGC and CSIR.

Degrees Awarded:

Ph.D.:

1. Mr. Girija Shankar Chaubey, "Kinetics of oxidation of some organic compounds by quinolinium dichromate". Supervisor: Prof. M.K. Mahanti.

2. Mr. Ashish Malhotra, "Synthesis characterization and reactivity studies of some mixed ligand complexes of ruthenium(II) and ruthenium(VI)". Supervisor: Prof. R.K. Poddar.

3. Mr. Lingaraj Behera, "Studies on electronic properties of valence compensated perovskite oxides

synthesized by chemical route". Supervisor: Prof. K. Ismail, Joint Supervisor: Dr. K.D. Mandal (NERIST, Itanagar).

Placement of students in various services:

1. Dr. R.L. Nongkhaw, after obtaining Ph.D. degree from this university was appointed Lecturer in the department.

2. Mr. E.K. Rymmai, Research Scholar, was appointed Lecturer in the department.

3. Dr. A. Tomba Singh was appointed Lecturer in the Department of Chemistry, Sherubste College, Kanglung, Bhutan.

4. Mr. Teiborlang Mukhim (NET JRF (CSIR), a Ph.D. student of the department, was appointed Lecturer in Chemistry in the Lady Keane College, Shillong

5. Mr. P.M. Singh, research scholar in the department, was appointed Lecturer in Chemistry in

Itanagar Govt. Science College, Itanagar.

6. Ms. Uracia L. Wahlang joined the ONGC, Duliajan as Executive Trainee (Chemical).

Courses Conducted:

Semester I – Inorganic Chemistry-I, Organic Chemistry-I, Physical Chemistry-I, Quantum Chemistry, Laboratory Course in Physical Chemistry.

Semester II – Inorganic Chemistry-II, Organic Chemistry-II, Physical Chemistry-II, Chemical Binding and Molecular Spectroscopy, Laboratory Course in Organic Chemistry.

Semester III – Inorganic Chemistry-III, Organic Chemistry-III, Physical Chemistry-III, Applications of Spectroscopic Methods, Laboratory Course in Inorganic Chemistry.

Semester IV – Environmental Chemistry, Computer Programming in Chemistry, Elective Courses: Bioinorganic Chemistry, Organometallic Chemistry, Natural Products Chemistry and Chemical Dynamics, Project work (Inorganic/Organic/Physical).

Study Tour/Field Trips of Students:

The department organized a study tour for the M.Sc. students during 14th January to 3rd February 2004. Dr. R.L. Nongkhlaw led the tour. The team

visited Nehru Science Centre, Mumbai, Bhabha Atomic Research Centre, Mumbai, National Institute of Oceanography, Goa, Indian Institute of Science, Bangalore, and Bio Organics, Bangalore.

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

Attended:

Prof. K. Ismail attended the 11th national conference on “Surfactants, Emulsions and Biocolloids” at the Institute of Chemical Technology, University of Mumbai, Mumbai (December 11-13, 2003) and presented the following papers:

i) Surface Tension of AOT in Aqueous Sodium Butyrate and Sodium Chloride Solutions.

ii) Surface Tension and Electrical Conductance of Cetyl Pyridinium Chloride in Aqueous LiCl, NaCl and KCl solutions.

He also chaired one session of the conference.

Dr. K.M. Rao and R. Lalrempuia (1) presented a paper titled “Synthesis and structural studies of $[\{n^6\text{-p-cymene}\}\text{ClRu}(\text{m-1-azido})\}_2]$ A versatile starting material for areneruthenium(II) azido derivatives” at the Sixth National Symposium in Chemistry (NSC-6) held at the Department of Chemistry, IIT, Kanpur (February 6-8 2004). (2) Dr. K.M. Rao and P. Govindaswamy presented a paper titled “Synthesis and

characterization of η^6 -arene) ruthenium(II) amidine complexes: Molecular structure of $[(\eta^6\text{-p-cymene})\text{Ru}\{\text{HN}=\text{CMe}(3,5\text{dmpz})(3,5\text{Hydmpz})\}]^{2+}$ at the symposium on "Modern Trends in Inorganic Chemistry(MTIC X) held at the Department of Chemistry, IIT, Mumbai (15-17 December 2003). (3) Dr. K.M. Rao and K.S. Singh presented a paper entitled "Synthesis and characterization of indenyl ruthenium complexes containing N, N' donor Schiff's base ligands: Molecular structures of $[\eta^5\text{-C}_9\text{H}_7) \text{Ru}(\text{PPh}_3)_2(\text{CH}_3\text{CN})\text{BF}_4$ and $[\eta^5\text{-C}_9\text{H}_7) \text{Ru}(\text{PPh}_3)(\text{C}_5\text{H}_4\text{N-2-CH}=\text{N-C}_6\text{H}_4\text{-p-CH}_3)\text{BF}_4$ " at the national symposium on "Current Trends in Chemical Research" held at the Department of Chemistry, Gauhati University, Guwahati (27-28 February 2004). (4) Dr. K.M. Rao attended the national symposium on "Current Trends in Inorganic Chemistry" CTIC-04 held at the Department of Applied Chemistry, Cochin University of Science, Kochi (15-17 March 2004) and presented a paper entitled "Reactivity studies of cyclopentadienyl and its analogue ruthenium bisphosphine complexes towards some poly pyridyl ligands".

Dr. A.K. Chandra delivered a talk on "Kinetics of Hydrogen Abstraction Reaction Between Halocarbons and OH radicals: A Theoretical Investigation" at the One-day Symposium in Chemistry at IIT,

Kharagpur (17.1.2004).

Dr. S. Aravamudhan (1) presented a poster on "Discrete Point-Dipoles within a Semi micro Volume Element" at the 3rd Alpine Conference on Solid State NMR held at Chamonix Mont-Blanc, France (14-18 September 2003). (2) Presented a poster on "Aromatic Ring Current Effects in (Macro- Biomolecules: Prevailing Forms of Equations and the Proposed Use of Tensor Form for the Shielding of Nuclei" at the national symposium on "Cellular and Molecular Biophysics" held at the National Institute of Mental Health and Neuro Sciences, Bangalore, January 14-17, 2004. (3) Presented a poster on "A Perspective of the Point Dipole Approximation for the Prospective Intuitive Chemists' Approaches" at the 6th national symposium in Chemistry of the CRSI, IIT/Kanpur (6-8 February 2004). (4) Attended the NMRS 2004 Conference at Saha Institute of Nuclear Physics, Kolkata (17-20 February 2004) and presented a poster on "Concerning the Specimen Sample-Shape for the Single-Crystal HR PMR studies".

Dr. S.P. Mitra attended the Trombay Symposium on Radiation & Photochemistry held at the BARC/BRNS, Trombay (8-12 January 2004) and presented a paper titled "Femtosecond Dynamics of Excited State intramolecular Proton Transfer".

Dr. T.S. Basu Baul participated in the Group Monitoring Workshop on DST funded Projects in Inorganic Chemistry, and delivered a talk on "Synthesis and characterization of organotin carboxylates: Investigation of mutagenicity tests and antitumour bioassay with reference to an understanding of a structure/activity relationship" held at the Indian Institute of Science, Bangalore (21-22 August 2003).

Mr. S. Singh, W. Rynjah and Dr. T. S. Basu Baul participated in the 10th symposium on Modern Trends in Inorganic Chemistry (MTIC-X), and presented a poster titled "Dibutylbis{5-[(E)-2-(aryl)-1-diazanyl]-2-hydroxybenzoato}tin(IV) complexes: An unprecedented examples of coordination expansion of skew trapezoidal geometry" at the Indian Institute of Technology, Bombay (15-17 December 2003).

Publications:

Chandra, A. K. and Th. Zeegers-Huyskens. 2003. Theoretical study of the interaction between 2-aminopyridine and 2-aminopyrazine and water. *Polish J. Chem., (Spl. Issue)* 77: 1649.

Chandra, A. K. and Th. Zeegers-Huyskens. 2003. Theoretical study of the symmetry of the (OH...O)-hydrogen bonds in vinyl alcohol-vinyl alcoholate systems, *J. Org. Chem.*,

68: 3618.

Chandra, A. K., T. Uchimaru, M. Sugie, and A. Sekiya. 2003. *Ab initio* study on the structures of fluorinated formates and hydrogen abstraction reactions with OH radical. *J. Comput. Chem.*, 24: 396.

Chandra, A. K., T. Uchimaru, S. Urata, M. Sugie and A. Sekiya. 2003. Estimation of Rate Constants for Hydrogen Atom Abstraction by OH Radicals Using the C-H Bond Dissociation Enthalpies: Haloalkanes and Haloethers. *Int. J. Chem. Kinet.*, 35: 130.

Chandra, A.K., P.C. Nam and M.T. Nguyen. 2003. The S-H bond dissociation enthalpies and acidities of para and meta substituted thiophenols: A quantum chemical study. *J. Phys. Chem.*, A107: 9182.

Chaubey, G. S., S. Das and M. K. Mahanti. 2003. Quinolinium dichromate oxidation of heterocyclic aldehydes: Kinetics and mechanism. *Oxidation Communications*, 26: 532 - 539.

Chaubey, G. S., S. Das and M.K. Mahanti. 2003. Kinetics of oxidation of a, b-unsaturated aldehydes by quinolinium dichromate, *Canadian J. Chem.*, 81: 204 – 208.

Chaubey, G. S., S. Das and M.K. Mahanti. 2003. Quinolinium dichromate oxidation of aliphatic aldehydes: A kinetic study. *Croatica Chemica Acta*, 76 : 287 - 291.

Chaubey, G.S., S. Das and M.K. Mahanti. 2003. Kinetic studies on the oxidation of aliphatic aldehydes by quinolinium dichromate. *Oxidation Communications*, 26: 526 - 531.

Das, S., G. S. Chaubey and M.K. Mahanti. 2003. Kinetic studies on the reactions of quinolinium dichromate with *b*-diketones. *Oxidation Communications*, 26: 540 - 546.

Das, S., S. Roy, G. S. Chaubey and M.K. Mahanti. 2003. Kinetics of oxidation of 3-alkanones by quinolinium dichromate. *Oxidation Communications*, 26 : 135 - 141.

Dev, S., D. Das and K. Ismail. 2004. Specific conductivity maxima of ionic surfactants in acetamide melt. *J. Chem. Eng. Data*, 49: 339-340.

Gunaseelan, K., B.C. Paul, J. Das and K. Ismail. 2003. On the electrical conductivity of microemulsions stabilized by sodium dodecyl sulfate and 1-butanol at constant water to surfactant molar ratio. *J. Surf. Sci. Techno*, 19: 63-69.

Gunaseelan, K., I.M. Umlong, T. Mukhim and K. Ismail. 2003. Electrical conductance behavior of oil-in-water microemulsions stabilized by sodium dodecyl sulfate and 1-butanol. *Langmuir*, 19: 7276-7281.

Keisham, S.S., Y.A. Mozharivskiy, P. J. Carroll and K.M. Rao. 2004. Syntheses and characterization of indenylruthenium(II) complexes containing N, N' donor Schiff base

ligands. Molecular structures of $[(\eta^5\text{-C}_9\text{H}_7)\text{Ru}(\text{PPh}_3)_2(\text{CH}_3\text{CN})]\text{BF}_4$ and $[(\eta^5\text{-C}_9\text{H}_7)\text{Ru}(\text{PPh}_3)(\text{C}_5\text{H}_4\text{-N-2-CH=N-C}_6\text{H}_4\text{-P-CH}_3)]\text{BF}_4$. *J. Organomet. Chem.*, 689: 1249-1256.

Lal, R.A., J. Chakraborty, A. Kumar, S. Bhaumik, R.K Nath & D. Ghosh. 2004. A Study on heterobimetallic chemistry of polyfunctional bis(2-hydroxy-1-naphthaldehyde)malonoyldihydrazone" D i o x o u r a n i u m (V I) , dioxomolybdenum(VI), zinc(II), copper(II), nickel(II) and cobalt(II) complexes. *Ind. J. Chem.*, 43A: 516-526.

Lalrempuia, L. and K.M. Rao. 2003. Reactivity studies of η^6 -arene ruthenium (II) dimers with polypyridyl ligands: isolation of mono, binuclear *p*-cymene ruthenium (II) complexes and bis-terpyridine ruthenium (II) complexes. *Polyhedron*, 22: 3155-3160.

Lalrempuia, R., H. Yennawar, Y.A. Mozharivskiy, and K.M. Rao. 2004. Syntheses, characterization and molecular structures of allenylidene, vinylidene- alkylidene, complexes containing $[(\text{Cp})\text{Os}(\text{PPh}_3)_2]^+$ fragment. *J. Organomet. Chem.*, 689: 539-543.

Lalrempuia, R., P. Govindaswamy, Y.A. Mozharivskiy and K.M. Rao. 2004. Reactivity studies of cyclopentadienyl bistrisphenylphosphine ruthenium(II) complex towards some polypyridyl ligands. *Polyhedron*, 23:

1069-1073.

Lalrempuia, R., P.J. Carroll and K.M. Rao. 2003. Syntheses of [(h⁶-p-cymene)Ru(EPh₃)₂Cl]⁺ complexes and molecular structure of chloro(h⁶-p-cymene)bis(triphenylphosphine)ruthenium (II) tetrafluoroborate (E= P, As and Sb). *J. Coord. Chem.*, 56: 1499-1504.

Lalrempuia, R., P.J. Carroll and K.M. Rao. 2003. Synthesis and reactivity studies of cyclopentadienyl bis(triphenylphosphine)osmium (II) complexes. Crystal and Molecular structure of [CpOs(PPh₃)(phen)]BF₄. *Polyhedron*, 22: 1391.

Lalrempuia, R., P.J. Carroll and K.M. Rao. 2004. Study of reactivity of p-cymene ruthenium (II) dimer towards diphenyl-2-pyridylphosphine: Synthesis, characterization and molecular structures of [(h⁶-p-cymene)RuCl₂(PPh₂Py)] and [(h⁶-p-cymene) RuCl (PPh₂Py)] BF₄. *J. Chem. Sci.*, 116: 21-27.

Mitra, S. and N. Tamai. 2003. Dynamics of photochromism in salicylideneaniline: A femtosecond spectroscopic study. *Phys. Chem. Chem. Phys.*, 5: 4647-4652.

Nongkhlaw, R. L., R. Nongrum and B. Myrboh. 2003. A novel one-pot synthesis of substituted pyridazines" A general method of preparation of 3,4,6-triaryl pyridazine. *Het. Comm.*, 9: 465-472.

Pachau, Z. & R.H. Duncan Lyngdoh. 2004. Molecular orbital

studies on the Wagner-Meerwein rearrangement in some acyclic Pinacol-Pinacolone rearrangements. *J. Chem. Sci.*, 116: 83-91.

Rao, K.M., P. Sarkhel, S. Chakraborty and R. Lalrempuia. 2003. Synthesis, Characterization and Molecular Structure of new (ζ⁶-p-cymene) ruthenium (II) amidine complex: [(ζ⁶-p-cymene) Ru{NH=C (Me)₃, 5-dmpz}(3,5-Hdmpz)] (BF₄)₂.H₂O. *J. Coord. Chem.*, 56: 1085-1091.

Rymmai, E. K. and K.M. Rao. 2003. Reactions of [(Ar) Ru(PPh₃)₂ (CH₃CN)]X (Ar = Cp*, h⁵-C₅Me₅ and indenyl, h⁵-C₉H₇; X=PF₆) with terpyridines: Hypodentate nature of terpyridines (Phterpy, Pyterpy and Diterpy). *Indian J. Chem.*, 42A: 1892-1895.

Singh, P. M. & R.H. Duncan Lyngdoh. 2003. Theoretical perspectives on the cope rearrangement in bullvalene systems. *Indian J. Chem.*, 42B: 3089-3101.

Suante, H. and M.K. Mahanti. 2003. Uinolinium dichromate oxidation of heterocyclic carboxylic acids. *Heterocyclic Communications*, 9: 489 - 492.

Suante, H., Lalbiakchama and M.K. Mahanti. 2003. Kinetics of oxidation of dicarboxylic acids by quinolinium dichromate. *Oxidation Communications*, 26: 547 - 552.

Suante, H., P. B. Majaw and M.K.

Mahanti. 2003. Kinetics and mechanism of oxidation of unsaturated acids by quinolinium dichromate. *Oxidation Communications*, 26: 202 – 206.

Urata, S., A. Takada, T. Uchamaru, and A.K. Chandra. 2003. Rate constant estimation for the reaction of hydrofluorocarbons and hydrofluoroethers with OH radicals, *Chem. Phys. Letters*, 368: 215.

Usman, A., H.K. Fun, T.S.B Baul and P. C. Paul. 2003. [2-(2-Hydroxyphenyl) ethylodene] amino} acetate] aquacopper(II) monohydrate. *Acta Crystallogr(E)*, E59: 438- 440.

Zeegers-Huyskens, Th., A.K. Chandra and M.T. Nguyen. 2004. Comments on "Theoretical estimations of the 298K gas-phase acidities of the pyrimidine based nucleobases uracil, thymine and cytosine. *J. Phys. Chem.*, A108: 1101.

Funds received from agencies other than NEHU:

1. DST, New Delhi – Rs.3,61,284/- (for research project of Prof. K. Ismail)
2. UGC, New Delhi, under SAP-DSA Programme –Rs.14.25 lakhs
3. DST, New Delhi – Rs. 6,50,000/- for organizing the DST Project Advisory Committee (PAC) meeting on Physical Chemistry (Convener: Prof. K. Ismail)

Infrastructure facilities acquired during the year:

The Department of Science and Technology, New Delhi gave a grant of Rs.32 lakhs under the FIST programme to the department. Out of which the following instruments were procured and commissioned:

1. Hitachi Fluorescence Spectrophotometer, model No.4500, 1 No.
2. Auto-MSB Magnetic Susceptibility Balance, Sherwod Scientific, 1 No.
3. Spectro-Electrochemical Instrument, 1 No.
4. LCR Meter, 1 No.
5. Networking of 8 PCs with a server for M.Sc. computer laboratory, 8 Nos.

Research Projects:

(a) Ongoing:

- (i) Synthesis, structure and reactivity of molybdenum(VI), molybdenum(IV) complexes derived from polyfunctional dihydrazones (Principal Investigator: Prof. R.A. Lal) sponsored by UGC, New Delhi.
- (ii) Co-ion Effect on Micellization of Ionic Surfactants (Principal Investigator: Prof. K. Ismail) sponsored by the DST, New Delhi.
- (iii) Synthesis and characterization of organotin carboxylates: Investigation of utagenicity lists and antitumour bioassay with reference to an understanding of a structure/activity

relationship (Principal Investigator: Dr. T.S.B. Baul) sponsored by DST, New Delhi.

(iv) Shielding Parameters on Nuclei: Facilities for the Experimental Determination and Calculation by Theoretical Procedures – to Obtain Information on Crystal Structures and Molecular Electronic Structures (Principal Investigator: Dr. S. Aravamudhan) sponsored by CSIR, New Delhi.

(v) "Base-Line environmental studies in and around uranium mining area of Domiasiat" funded by DST-DAE (Co-investigator Prof. B. Myrboh).

(vi) North-Eastern Biodiversity- An interdisciplinary Research Project extended for the Xth Plan period (Coordinator: Prof. B. Myrboh) sponsored by NEC, Shillong.

Academic/Professional Collaborations:

Dr. K. M. Rao has undertaken collaboration work with the following groups to study single crystal X-ray diffraction studies of compounds synthesized in this group:

1. Prof. Pradeep Mathur, Department of Chemistry, Indian Institute of Technology-Bombay, Powai, Bombay-400076.

2. Dr. Hemant Yennawar, 8A, Althouse Laboratory, The Pennsylvania State University, Department of

Biochemistry and Mol. Biology, University Park, PA 16802, USA.

3. Prof. Patrick J. Carroll, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323, USA.

4. Yurij A. Mozharivskyj, Ames Laboratory, Iowa State University of Science and Technology, Ames, Iowa, IA 50011, USA.

Honour/Award/Recognition:

Prof. R.H.D. Lyngdoh was appointed as a member of the Editorial Board of a new Chemistry journal titled *Chemistry: An Indian Journal* published by Trade Sc. Inc. (Gujarat).

Other Activities:

In an in-service course organized by the Kendriya Vidyalaya, NEHU, Shillong for the post-graduate teachers of Chemistry from the eastern region of the country from 30th May to 19th June 2003, all teachers of the department participated and gave several lectures (about 50 lectures in all). They discussed their difficulties in teaching students of Classes XI & XII and clarified their doubts in the subject. Further, laboratory demonstrations were also given for them.

The department organized the DST-PAC meeting on Physical Chemistry on April 25-26, 2003 (Convener: Prof. K. Ismail).

Prof. K. Ismail visited the

Department of Chemistry, Dibrugarh University on October 20-23, 2003 and delivered lectures on Non-Equilibrium Thermodynamics. He visited the Department of Chemistry, Kalyani University on March 22-23, 2004 and delivered lectures on Statistical Thermodynamics. He was elected as Vice-President of the Indian Society for Surface Science and Technology, Kolkata for the period 2004-2005.

Prof. R.K. Poddar was a member of National Advisory Committee of the national symposium on "Current Trends in Chemical Research" held at the Department of Chemistry, Gauhati University (February 27-28, 2004).

Prof. R.H.D. Lyngdoh was Visiting Professor at the Center for Computational Quantum Chemistry, University of Georgia, USA. He delivered lectures on the applications of Quantum Chemical Theory to the

study of DNA-related systems.

Dr. S. Aravamudhan visited the NCL Pune in connection with the CSIR research scheme in collaboration with NCL and delivered lectures on Magnetic Resonance to Research Scholars there on 24th and 25th January 2004. He also participated in the research and group seminar activities at the SIF, IISc, Bangalore during 5-14 January 2004.

Dr. A.K. Chandra delivered a talk on "Kinetics and Mechanism of H-abstraction reactions: A Theoretical Perspective" at the Department of Chemistry, University of Burdwan on 29.1.2004.

Dr. T.S.B. Baul participated in the NCERT Teacher Training Programme at NERIE, Shillong during 9-15 February 2004 and delivered lectures on Organometallic and Solid State Chemistry.

DEPARTMENT OF MATHEMATICS

Thrust Areas of Research:

Theory of Relativity and Cosmology, Algebraic and differential Topology, Algebra, Number Theory and Oceanography.

Brief statement of academic activities during the year under report:

The department conducted

M.Sc., M.Phil. and Pre-Ph.D. courses in Algebra, Analysis, Differential Equations, Topology/Geometry, Number Theory, Theory of Relativity and Cosmology and Oceanography. The department also offered two computer courses in M.Sc. and pursued research in computer aided approach to

Head	:	Professor M. B. Rege.
Faculty	:	
Professors	:	S.S. Khare, Ph.D. (Alld.) M.B. Rege, Ph.D. (Bom) S.K. Srivastava, Ph.D. (Gorakh) H.K. Mukherjee, Ph.D (Alld.)
Readers	:	P.K. Saikia, Ph.D. (Wiscn) C.R. Mondal, Ph.D. (V.B.) A.K. Das, Ph.D. (NEHU)
Lecturers	:	S.L. Marbaniang, M.Sc. (Gau.) A.M. Buhphang, M.Phil. (NEHU) A.T. Singh, M.Sc. (NEHU) S. Dutta, Ph.D. (NEHU) J. Choudhury, M.Sc. (Gau.)
Student Intake:		(a) Enrolment capacity: M.Sc: 30 (b) <i>Actual admission:</i> M. Sc: 33 (Male 24, Female 9, ST 28, SC 0, General 5) M. Phil: 2 NET qualified: 1

mathematical research in Number Theory, Cosmology, Algebraic and Differential Topology, Oceanography, etc.

Courses Conducted:

Semester I: Linear Algebra, Analysis I, ODE, Classical Mechanics, Application of Mathematics in Environmental Studies.

Semester II: Analysis II, Topology, PDE, Algebra I.

Semester III: CFT, Computer Programming, Topics in Algebra,

Differential Geometry.

Semester IV: ENT, Computer Numerical Analysis, Ring Theory and Operations Research.

Visiting Professors/Fellows/Scientists:

(i) Prof. S. B. Nandi of the Department of Mathematics, Presidency College and Bethun College (Former Professor, Department of Statistics, Gauhati University), visited the department and gave a lecture on "Integral transforms and their

applications in statistics” on 30th June 2003.

(ii) Prof. M. Quadri, Department of Mathematics, Aligarh Muslim University visited the department and delivered a lecture on “Commutativity theorems in rings” on 26th September 2003.

(iii) Prof. A. R. Shastri of IIT, Mumbai visited the department and delivered a lecture on “Chromatic number and topology of neighborhood complex of a graph” on 2nd October 2003.

(iv) Prof. Parvati Shastri of Bombay University visited the department and delivered a lecture on “Primes of the form $x^2 + ny^2$ and class fields” on 2nd October 2003.

Seminars/Conferences/Symposia/ Extension Programme:

Attended:

Prof. S. S. Khare gave a series of five talks on “Computer technique in Algebraic Topology” at Rani Durgawati University, Jabalpur in July-August 2003 under DRS/SAP programme. He also gave a series of four talks on “Computer technique in bounding problem of Dold, Milnor and Grassmann manifolds” at Delhi University in January 2004 under DRS/SAP programme.

Prof. S. K. Srivastava visited IUCAA, Pune and delivered a talk on 12th January 2004 on “Higher-derivative

gravity and riccion”.

Publications:

Das, A.K. 2004. Cobordism Independence of Grassmann manifolds. *Proc. Indian Acad. Sci (Math Sci)*, 114 (1): 33-38.

Mukherjee, Himadri Kumar. 2003. Classification of Homotopy Dold Manifolds. *New York Journal of Mathematics*, 9: 271-294.

Research Projects:

Ongoing:

DST project on “Application of Computer Technique..Homology” sanctioned to Prof. S.S.Khare and Dr. A.K.Das jointly.

Other Activities:

The department hosted the Mathematical Olympiad Camp (NE region) on 8-14 October 2003.

The department also conducted an orientation camp for INMO-2004 candidates during 21 to 31 January 2004. Dr M.B.Rege, Dr Sanghita Dutta, Ms Ardeline Mary Buhphang and Mr Subhrajit Sharma held problem-solving sessions for the candidates. Prof. S. Bagchi, Stat–Math Division, ISI, Kolkata and Prof. A. Sengupta, Department of Mathematics, IIT, Guwahati delivered talks in this programme.

Infrastructure Development:

Computing facilities of the

department have been increased to enable M.Sc. students to perform practical for the courses being given by the department. The computers of the department are networked through LAN under Linux to the VSAT of the University.

Other Activities:

Mr. A. T. Singh and Dr. S. Dutta joined the department in May 2003.

Ms. J. Choudhury joined the department in June 2003.

DEPARTMENT OF PHYSICS

Thrust Area of Research:

Solid State Physics, High Energy Physics, Laser Physics and Nuclear Physics. The department has

been selected under DST-FIST since July 2001. Compared to the initial strength, the M.Sc. (Physics) admission capacity has been

Head	:	Professor M.K. Parida
Faculty Professors	:	P. Shukla, M.Sc. (IIT, Delhi), Ph.D. (Temple) Solid State Physics (Theory) K. Kumar, M.Sc.(Agra), Ph.D. (IIT Kanpur) Laser Physics (Expt.) Y.S. Jain, M.Sc. (Agra), Ph.D. (IIT Kanpur) Solid State Physics Molecular Physics (Theory & Expt.) P.N. Pandita, M.Sc., Ph.D. (Kashmir) High Energy Physics (Particle Physics) (Theory) D.T. Khathing*, M.Sc.(Delhi), D.Phil.(Kol) Nuclear Physics (Expt.) M.K. Parida, M.Sc., Ph.D. (Utkal) High Energy Physics (Particle Physics) (Theory) B.M. Jyrwa, M.Sc.,Ph.D. (NEHU) Nuclear Physics (Theory) P. Nongkynrih, M.Sc., Ph.D. (NEHU) Nuclear Physics (Expt.) S. Kumar, M.Sc.(BHU), Ph.D. (Utkal) High Energy Physics (Particle Physics) (Theory) (Temporarily Attached)
		* On deputation as Registrar, NEHU, Shillong.
Reader	:	M.C. Mahato, M.Sc.(Ranchi), Ph.D.(IISc., Bangalore) Solid State Physics (Theory)

Lecturer : S.S. Pohlong, M.Sc., Ph.D. (NEHU) Solid State Physics (Theory)

Visiting Professors/Fellows/Scholars:

- (i) Prof. J. Pasupathy, Indian Institute of Science, Bangalore visited the department on August 11-12, 2003 and gave a lecture on "Some Recent Applications of Quantum Mechanics".
- (ii) Dr. Maitreyee Roy, Senior Scientist, Department of Optical Physics, University of Sydney, Australia visited the department and gave a lecture entitled "Geometric phase modulation for low coherence interference microscopy".
- (iii) Dr. S. Ganeshan, Senior Scientist, Bhabha Atomic Research Centre, Trombay visited the department during September 2003 and gave a lecture entitled "On thorium fuel cycle nuclear data".
- (iv) Prof. R. Kaul, Institute of Mathematical Sciences, Chennai visited the department on October 16-19, 2003 and gave a lecture entitled "Black hole entropy and quantum gravity".

Student Intake:

a) Enrolment capacity: M.Sc. = 30

b) Actual admission:		SC	ST	Genl.	Male/Female		Total
M.Sc.	:	2	23	5	18	12	30
Ph.D.	:	-	3	-	3	-	3

c) No. of students and research scholars receiving financial aid : 29

d) No. of students and research scholars from NEHU, outside NEHU, from Meghalaya and from outside Meghalaya:

	From NEHU	From outside NEHU	From Meghalaya	From outside Meghalaya
M.Sc. (I & III Sem) :	49	7	48	8
Research Scholars :	7	3	7	3

increased nearly four times to meet the growing demand.

Brief Statement of Academic Activities:

Apart from conducting M.Sc. and Ph.D. programmes, faculty members

have been invited by reputed national and international institutions for giving talks on their research contributions. Some members have been offered associateships and senior associateships for collaborative research work.

Degrees Awarded:

Ph.D

Sri. Chitta Ranjan Das,
"Investigations in Unified Theories".
Supervisor: Professor M.K. Parida.

Courses Conducted:

Classical Mechanics; Quantum Mechanics I; Mathematical Physics; Laboratory I; Electronics; Quantum Mechanics II; Laboratory II; Atomic & Molecular Physics; Solid State Physics; Nuclear Physics; Laboratory III; Thermal Physics; Experimental Technique; Many Body Theory; Environment; Optional Papers on Solid State Physics; High Energy Physics; Laser Physics, Nuclear Physics; Project Works.

Perspectives in Physics: Operator methods in quantum mechanics and nonlinear coupled models; Symmetries; Conservation laws; and neutrino oscillations; Basic aspects of nuclear physics; nuclear energy; Introduction to astrophysics; Principles of statistical mechanics; Lasers and their applications; Nanomaterials; Bose-Einstein condensation, FORTRAN programming through computers.

Study Tour/Field Trips of Students:

Prof. Satish Kumar guided students of Physics Department on a study tour during 28th January to 18th February 2004 to visit national

institutions of scientific importance and laboratories in Mumbai, Bangalore, Chennai and Kolkata.

Seminars/Conferences/Symposia/ Extension Programmes:

Attended:

P. Shukla (i) delivered a set of lectures on "Domains and Interfaces in Random Fields" at the SERC School on Physics of Disordered Solid held at IM Sc., Chennai, April 2003. (ii) Gave a talk on "Random Field Ising Model" at DAE Solid State Physics Symposium, December 2003.

M.K. Parida (i) presented a paper titled "Threshold effects on quasidegenerate neutrino masses with high scale mixing unification" at the working group on Neutrino Physics at WHEPP8 5-16 January 2004, Mumbai. (ii) "Probing seesaw mechanism through neutrino masses and flavour violating lepton decays", lecture delivered at the High Energy Physics Seminar, Centre for Theoretical Studies, 29 January 2004, Indian Institute of Science, Bangalore. (ii) "Probing quasi-degenerate neutrinos through flavour violation", lecture given at the High Energy Physics Seminar, 5 February 2004, Institute of Mathematical Sciences, Chennai. (iv) "Prospects of fermion masses and mixings in supersymmetric unified theories", presented at the DST-PAC meeting, 16-18 October 2003, Indian National

Science Academy, New Delhi. (v) "High Scale Mixing Unification of Quarks and Leptons" presented at the Theoretical Physics Seminar Circuit Consortium, February 28, 2004, IIT, Guwahati.

D.T. Khathing gave a talk on "Environmental radiation and health hazard" at the DAE national seminar on "Radiation and Biomolecular Techniques in Animal Sciences and human health", 10-12 March 2004, held in Guwahati.

B.M. Jyrwa gave a talk on "Barrier top resonances" at BARC, Mumbai in July 2003.

P. Nongkynrih presented a paper titled "Nuclear energy – an inevitable source of energy" at the national seminar on "Environmental and sociological implication of mining and oil and natural gas exploration in North-East India", 5-6 June 2003, Shillong.

M.C. Mahato presented a paper on "Mobility of a forced Brownian particle" at the symposium on "Condensed Matter Days 2003", 27-29 August 2003, Jadavpur, Kolkata.

Publications:

Devi, T.G., A. Das and K. Kumar. 2004. Raman anisotropic bandwidth study of C=O stretching vibration of methyl isobutyl ketone: role of van der Waals' volume of the interacting systems. *Spectrochimica Acta*, Part A 60: 211-216.

Gupta, S. K., Arun K. Jain and B. M. Jyrwa. 2003. An Analytical Expression for Classical Deflection Function in Heavy Ion Scattering. *Proceedings of the DAE-BRNS Symposium on Nuclear Physics*, 46B: 214-15.

Mahato, M.C. and A. M. Jayannavar. 2003. Noise assisted motion at the molecular level I. *Resonance*, 8(8): 33-45.

Mahato, M.C. and A.M. Jayannavar. 2003. Noise assisted notion at the molecular level II. *Resonance*, 8(9): 4-13.

Mishra, R., S. P. Tripathy, K. K. Dwivedi, D. T. Khathing, S. Ghosh, M. Muller and D. Fink. 2003. Spectroscopic and Thermal Studies of Electron Irradiated Polyimide. *Radiation Measurements*, 36: 621-624.

Mishra, R., S. P. Tripathy, K. K. Dwivedi, D. T. Khathing, S. Ghosh, M. Muller and D. Fink. 2003. Modification of PADC through Electron-Target Collision. *Radiation Measurements*, 36: 639-642.

Mishra, R., S. P. Tripathy, K.K. Dwivedi, D. T. Khathing, S. Ghosh and D. Fink. 2003. Dose Dependent Modification in Makrofol-N and Polyimide by Proton Irradiation. *Radiation Measurements*, 36: 719-722.

Mohapatra, R.N., M. K. Parida and G. Rajasekaran. 2004. Bilarge neutrino mixing by radiative magnification. *Pramana*, 62: 643-646.

Mohapatra, R.N., M.K. Parida and G. Rajasekaran. 2004. High Scale mixing unification and large neutrino mixing angles. *Phys. Rev.*, D69: 053007.

Parida, M.K., C. R. Das and G. Rajasekaran. 2004. Radiative stability of neutrino mass textures. *Pramana*, 62: 647-650.

Roy, B., D. T. Khathing, S. Gupta and P. S. Dkhar. 2003. Effect of Paper Mill Wastes on Blood of Chana Punctatus. *J. Natcon*, 15 (1): 7-15.

Shukla, P. 2003. Driven Random Field Ising Model: some exactly solved examples in threshold activated kinetics. *Int. J. Mod. Phys.*, B17: 5583.

Tripathy, S.P., R. Mishra, K. K. Dwivedi, D. T. Khathing, S. Ghosh and D. Fink. 2003. Proton Dose Dependent modification Tract Etching Response in Some Polymers. *Radiation Measurement*, 36: 107-110.

Tripathy, S.P., R. Mishra, K.K. Dwivedi, S. Ghosh, D. Finck and D. T. Khathing. 2003. Response of Cellulose detectors to different doses of 62 MeV Protons. *Radiation Effects and Defects in Solids*, 158: 583-591.

Zoliana, B., Z. Pachuau, L. Zadeng, P. K. Patra, D. T. Khathing and R. K. Thapa. 2003. Photoemission Calculations from Fe and Ni by using the Mathieu Potential Model. *Indian J. Phys.*, 77A(4): 393-396.

Zoliana, B., Z. Pachuau, R. K. Thapa, L. Zadeng, P. K. Patra and D.

T. Khathing. 2003. Photoemission studies of metals by using Mathieu potential photoemission calculation by using the Projector Operator Method. *Intl. J. Mod. Phys. Lett B*, 17(15): 2897-2902.

Research Projects:

Ongoing:

(i) DST sponsored project on "Prospects of fermion masses and mixing in unified theories" (M.K. Parida).

(ii) DST sponsored project on "Relaxational dynamics in a complex landscape" (P. Shukla).

Awards/Honours, etc.:

1. Senior Associateship of IMSc., Chennai (M.K. Parida).

2. Senior Associateship of IMSc., Chennai and Senior Associateship of SNBN CBS, Kolkata (P. Shukla).

3. Associateship of ASICTP, Trieste, Italy (M.C. Mahato).

Academic/Professional

Collaborations:

The department continued to be the participating centre in the North-Eastern Consortium of the Theoretical Physics Seminar Circuit, DST, Govt. of India with M.K. Parida as co-ordinating member from NEHU.

B.M. Jyrwa carried out collaboration with BARC, Mumbai on

Nuclear Model Codes.

Other Activities:

The department organized the second UGC sponsored refresher course in Physics from 23 February to 15 March 2004 on "Perspectives in Physics" with Professor Y.S. Jain as Course Co-ordinator in which 15 college and university teachers participated. Dr. A. Srinivasan, Dr. A. Khare, IIT, Guwahati, Prof. T.D. Goswami, Guwahati and Dr. A.K. Sen of Assam University gave lectures as external resource persons. Dr. S.S. Pohlong of Physics Department participated in the course.

P. Shukla (i) visited the Institute of Mathematical Sciences, Chennai from 20.12.03 to 17.2.04 for

collaborative research work as Senior Associate. (ii) Was elected Chairman, State Organising Committee of the Meghalaya Year of Scientific Awareness 2004.

M.K. Parida (i) chaired a plenary session at the 8th workshop on High Energy Physics Phenomenology, Mumbai, January 5-16, 2004. (ii) Chaired a session at the North-Eastern Consortium Meeting of the Theoretical Physics Seminar Circuit, February 28, 2004 Guwahati. (iii) Visited the Centre for Theoretical Studies, IISc. Bangalore from 17.1.04 to 3.2.04.

B.M. Jyrwa (i) was appointed academic facilitator for NIOS programme for some districts of Meghalaya. (ii) Visited BARC, Mumbai for two weeks in July 2003 under BRNS Visiting Scientist Scheme.

CENTRE FOR APPLIED STATISTICS

Thrust Area of Research:

Statistical Inference, Design of Experiment, Sample Survey and Statistical Ecology.

Brief Statement of Academic Activities:

Routine activities of the centre like teaching and research.

Courses Conducted:

Semester I: Mathematics and

Descriptive Statistics; Computational Technique & Elementary Probability Theory; Probability distribution and Vital Statistics Method; Economics Statistics and India Official Statistics; Practical.

Semester II: Descriptive Statistics & Sampling Distribution; Statistical Methods; Sampling Techniques and Quality Control; Analysis of Variance and Experimental Design; Practical.

Seminars/Conferences:

Attended:

Dr. G. Das presented a poster titled "Prioritising, utilizing and managing village bamboos: A Case Study in Barak Valley, North-East India" at the VIII Bamboo Congress, February 28th to March 2, 2004, at New Delhi.

of Bamboo and Rattan, 3(1): 27-34.

Infrastructure facilities acquired:

Two computers and Internet connection.

Research Projects:

"Statistical Modelling on

Head	:	Dr. M.K. Das
Faculty	:	
Readers	:	M.K. Das, M.Sc., Ph.D. (Dib) Quality Control. G. Das, M.Sc. (Delhi), Ph.D. (NEHU) Sample Survey.
Lecturer	:	B.K. Gupt, M.Sc. (Alig. & Rohilkhand) Sample Survey.
Student Intake:	a)	Enrolment capacity: 20
	b)	Actual admission:
		SC ST Genl. Male Female Total
		- 20 - 14 6 20

Publications:

Das, G. 2004. Phenology and Culm Growth of Muli Bamboo-*Memocanna baccifera* (Roxb.) Kurtz in Barak Valley, North-East India. *Journal*

Management of Bamboos" Principal Investigator: G. Das. Duration 3 years from July 2002. Grant for 2003-04 Rs.1,00,000.00. Source – DST, New Delhi.

VI

School of Social Sciences

The School of Social Sciences, comprising the departments of Sociology, History and Political Science and the Centre for Cultural and Creative Studies, has been carrying out teaching and research activities for almost thirty years now. The School has made progress in research activities of diverse areas, the majority being addressed to the problems and reality of North-East India. An overwhelming majority of students in the school (PG, Diploma and Research) are Scheduled Tribes.

Of the 351 students, 332 belong to Scheduled Tribes and 191 are women.

The research and teaching programmes in the school address social and empirical realities of North-East India, and many of the projects and Ph.D works have brought out useful information for policy makers as well. The departments of History and Sociology are under the Special Assistance Programme of the UGC. Some faculty members of the school are involved in national and international research collaborations.

DEPARTMENT OF HISTORY

Thrust Area of Research:

North-East India

Distinguished by an emphasis on the study of peoples and regions with particular reference to social, cultural and economic developments in North East India, the department's objectives are (1) to provide at the Master's level

a broad knowledge of human history and particularly of the areas and themes of special concern to the department and modern approaches to its study through a suitably structured and balanced syllabus, and (2) to promote historical research in hitherto unexplored areas, especially in North

Head	: Professor David R Syiemlieh
Faculty Professors	: J.B.Bhattacharjee, M.A./LL.B./Ph.D (Gau) Imdad Hussain, M.A/Ph.D (Gau) D.R.Syiemlieh, M.A/Ph.D (NEHU) M.Momin, M.A/Ph.D (JNU) M.Sharma, M.A (Gau) Ph.D (NEHU) F.A.Qadri, M.A/Ph.D (Alig)
Lecturers	: C.Mawlong, M.A/Ph.D (NEHU) V.R.Rengsi, M.A/Ph.D(NEHU) A.N.Passah, M.A/M.Phil(NEHU) T.Gurung Nag, M.A/Ph.D (NEHU) Md.S.N.Rahman, M.A/Ph.D (Cal)

Student Intake: a) Enrolement 1) M.A Capacity: 50 Ph.D

b) Actual Admission M.A:	SC	ST	GEN	Male	Famale	Total
	-	48	-	21	27	48
	Ph.D.	8	5	10	3	13

c) Number of students qualifying NET: 1

Eastern region through the Ph.D. programmes and faculty members' research. The department's major achievements have been in the areas of syllabi innovation and promotion of North East India studies. New grounds have been broken in regional history and in the history of the bordering areas or countries. Through the researches of its faculty, its Ph.D. programmes and through the North-East India History Association, which it helped to establish and nurture since its foundation in 1979, the department has played a crucial role in laying the foundation of regional studies in the region. It is now

recognized as the leading centre for historical studies of North Eastern region. In 1994 it was brought under Special Assistance Programme (SAP) of the UGC with North East India Studies as the thrust area and in 2001-02 the programme has been renewed by the UGC for another five years (till 2005-2006).

Degree Awarded:

Ph.D

1. J. Zorema, "The Bureaucracy, the Chief and Indirect Rule in the Lushai Hills of Assam, 1898-1952". Supervisor: Prof. Imdad Hussain.

2. C. Lalthlengliana, "British Colonial Rule and Lushai Resistance, 1890-1898". Supervisor: Prof. Imdad Hussain.

3. Arpita Sen, "The Irish Influence on the Indian National Movement". Supervisor: Prof. David R Syiemlieh.

4. Sima Saigal, "Economic Change and Social Formation in Assam (1939-1979)". Supervisor: Prof. Manorama Sharma.

Course Conducted:

M.A New Course:

1st and 2nd semesters: Historical Methods, Pre-Historic to Ancient Societies, Society and Economy in Ancient/Medieval/Modern India, Feudalism, Capitalism and Imperialism, Ancient Indian Polity & Society, Colonialism Imperialism & Economic Change, History of Graeco-Roman Civilization, Modern Japan.

3rd and 4th semesters: Social & State Formation, Religion & Society in Ancient India, Indian Nationalism, The Chaleolithic Age in India, Neolithic & Megalithic Culture of N.E.India, Peasant Movement in Modern India, Dimensional & Directional Trends of the Indian Nation Movement, British Policy in N.E.India, Religion & Society in Ancient India, Introduction to Archaeology, Economic History of Modern India, Indian Nationalism, Ancient Indian Art & Architecture, Agrarian Unrest in Medieval India,

History of Ideas, Frontier & Foreign Policy, Modern U.S.A, History of Sciences.

Seminar/Conferences:

Organised:

The department organized a national seminar on "Economy and Society in North-East India: 19th -20th Centuries" on 1-3 March 2004. Professors D.R.Syiemlieh and Manorama Sharma were the conveners of the same.

Attended:

Professor J.B.Bhattacharjee presented (i) a paper titled "Shrenimata: A Literary Source for the History of Tripura", NEIHA, XXIV Session, October 16th – 18th. (ii) "Loiyamba Shinyen: A Landmark in Meitei State Formation in Manipur" at the Indian History Congress, Mysore, 64th session, December 28-30, 2003. (iii) "Studying Colonization of Economy in Northeast India" at the seminar on "Economy and Society in North East India 19th – 20th Centuries" Shillong, March 1-3, 2004. (iv) Delivered the H.K. Barpujari Endowment Lectures on "Bhauma-Naraka Legend and State Formation in Pragjyotisha-Kamarupa" at the 24th session of NEIHA, Gauhati University, October 2003. (v) Delivered the valedictory address at the seminar on "North-East India: Economic, Social, Cultural and Political Life" organized by

the Asiatic Society, Kolkata, on 29-30 April 2003.

Professor Imdad Hussain (i) participated in the seminar on "North East-India: Economic, Social, Cultural and Political Life" organized by the Asiatic Society of Bengal, Kolkata, 29-30 April, 2003 and presented a paper on "Angami Nagas: Inter *Khel* Relations and Political Developments". (ii) Delivered the keynote address at the seminar on "Martial Tradition of North East India" organized by the Department of History, Arunachal University, Doimukh, on 18th November 2003. (iii) Delivered a lecture on "Internal Security Scenario of North East India in Historical Perspective" to officers of the Special Bureau, Cabinet Secretariat, Shillong, 1st December 2003. (iv) Participated in seminar on "Society and Economy in North East India" organized by the Department of History, NEHU, as UGC Special Assistance Programme, 1-3 March 2004 and presented a paper on "Saadulla, Bordoloi and Provincial Finance and Development". (v) Delivered the 32nd Foundation Day Lecture at the Indian Council of Historical Research, North Eastern Regional Centre, Guwahati, on "Finance and Underdevelopment: Assam's Colonial Legacy", on 26th March 2004.

Professor David R Syiemlieh (i) delivered the Pratibha Devi Memorial

Lecture 2003 at Gauhati University on 8th September 2003. The lecture was titled "Response of the North East Hill Tribes of India towards Partition, Independence and Integration". Prof. Syiemlieh also presented the following papers at various seminar/conferences. (ii) Presented a paper on "The Federation of Khasi States: A Study of Three Phases of its History" at the 24th Annual Conference of the North East India History Association, Guwahati, 10-12 October 2003. (iii) "Traditional Institutions of Governance in North East India: Continuity, Change and Relevance" at the seminar on "Development Plan for the N.E Region: Exploring Options and Possibilities" organized by Department for Development of North Eastern Region and NEHU, Shillong, 11-12 December 2003. (iv) "Education and Tribal Societies in North East India" at the national consultation on "Education and Mission", Ishvani Kendra, Pune, 10-14 January 2004. (v) Made a presentation on "Social Science Research in North East India" at the Centre for Studies in South Asia, Cambridge University, on 10 February 2004. (vi) "Trade and Markets in the Khasi-Jaintia Hills 19th - 20th Centuries" at the national seminar on "Society and Economy in North East India 19th -20th Centuries" Department of History, NEHU, 1-3 March 2004.

Professor Mignonette Momin (i) attended the 24th Session of the NEIHA

Conference, Guwahati, October 16-18, 2003 and presented a paper titled "Generalization in Constructing Histories of Northeast India". (ii) Attended the national seminar on "Economy and Society in Northeast India: 19th – 20th Centuries" organized by the Department of History, NEHU, Shillong, March 1-3, 2004 and presented a paper titled "Garo Peasantry in the Nineteenth and Twentieth Centuries".

Professor Manorama Sharma (i) attended the international workshop on "Crisis State at Johannesburg, South Africa" sponsored by DESTIN of London School of Economic and Politics and hosted by the University of Witwatersrand from 14th to 16th July 2003 and presented a paper on "Tribal Traditions and Crisis of Governance in North East India" (co-author, A.K.Baruah). (ii) Organized an international workshop at Shillong on 2nd December, 2003 on "Traditional Institution and Urban Governance" sponsored by the North East Institution of Development Studies in collaboration with the London School of Economics and Politics and the Government of Meghalaya. (iii) Attended the XXIVth Annual Session of the North East India History Association hosted by the Gauhati University, 16th to 18th October 2003 and presented a paper titled "Gender and Peasant Struggles in Assam: A Historiographic Enquiry".

(iv) Presented a paper titled "Gender and Constitutional Safeguards" at the seminar on "Constitutional Safeguards for the Indigenous people of North East India" organized by North East Foundation, Guwahati, on 13th and 14th March 2004.

Professor Fozail Ahmad Qadri (i) attended the 24th Session of North East India History Association, held at Guwahati, October 16-18, 2003 and presented a paper titled "Legend of Shah Ismail Ghasi". (ii) Attended the international workshop on "Political Role of Popular Islam (Sufism)" organized by Konrad Adenauer Foundation, New Delhi Chapter at Bikaner, October 1-3, 2003 and presented a paper on "Reforming Sufism: Wahabi Criticism of Sufi Forms and Practices in Northern India". (iii) Attended the national seminar on "Economy and Society in North-East India 19th to 20th Centuries" held on March 1-3, 2004, Department of History, NEHU, Shillong and presented a paper on "Hussain Ahmad Madani: Deoband Ideology and Social Mobilisation of Muslims During Transfer of Power". (iv) Attended the national seminar on "North East Through the Ages" organized by Asiatic Society, Kolkata, March 25-26, 2004 and presented a paper on "Sufism in Pre-Colonial North East India".

Dr. Tejimala Gurung Nag (i) attended the 24th Annual NEIHA

Conference held at Guwahati on 16th – 18th October 2003 and presented a paper titled “The Colonial State and Settlement on Nepali Graziers in Manipur (1891-1947)”. (ii) Attended the national seminar on “Society and Economy in North East India (19th – 20th Centuries)” organized by the Department of History, NEHU, Shillong, 1-3 March 2004 and presented a paper on “Nepali Grazier Migration and the Rise of Dairy Farming in North East India”.

Ms.Amena Nora Passah (i) presented a paper on “Women and Political Participation in Meghalaya” in the 24th Session of NEIHA, Guwahati, October 16th – 18th 2003. (ii) Delivered a talk on “Need for Gender Sensitization in Meghalaya” in the programme conducted by Women’s Cell, NEHU, on 26th March 2004. (iii) Presented a paper on “The need for presentation and retrieval of Church records” at the seminar on “Preserving Retrieving and Interpreting Church Records” organized by CISRS, Shillong Chapter and Church History Association, Shillong Branch, Shillong, 2nd October 2003.

Publications:

Bhattacharjee, J. B. 2003. Supplementing Archival Material: Search for Alternatives. In P. Goswami (ed) *Insight*. Guwahati: Gauhati University.

Bhattacharjee, J. B. 2003. Rajamala and Historical Writings in Tripura. In *Proceedings of North-East India History Association*, Vol. 23. Shillong: NEIHA, 41-47.

Bhattacharjee, J. B. 2004. State and Society in Northeast India. In J.S Grewal (ed) *State and Society in Medieval India*. New Delhi: International Institute of Human Studies.

Bhattacharjee, J.B. 2004. Polity Formation, Inter-Regional Trade and Cross-Cultural Relations in Barak Valley in the Early Period. In M.Momin and C. Mawlong (ed) *Society and Economy in Northeast India*, Vol.I. New Delhi: Regency Publications, 177-195.

Hussain, I. 2003. The Surma and Assam Valley Light Horse: A Forgotten Chapter in the History of Internal Security on North East India. *Journal of North East India Council for Social Sciences Research*, 27(2).

Mawlong, C.A. 2004. Megaliths and Social Formations in Khasi-Jaintia. In M. Momin and C.A.Mawlong (ed) *Society and Economy in North East India*, Vol.1. New Delhi: Regency Publications, 35-56.

Momin, M. 2004. Acquisition and Distribution of Wealth: An Inquiry into the Rise of Pragjyotisa-Kamarupa. In Mignonette Momin and C. A Mawlong (ed) *Society and Economy in North East India*, Vol.1. New Delhi: Regency Publications, 196-233.

Momin, M. 2003. Witnessing

History: The Kalika Purana examined. In *Proceedings of North-East India History Association*, Vol.23. Shillong: NEIHA, 33-40.

Passah, A.N. 2004. The Role of Khasi-Jaintia Women of the Meghalaya Plateau in pre-colonial period. In Mignonette Momin and C. A. Mawlong (ed) *Society and Economy in North East India*, Vol. 1. New Delhi: Regency Publications, 57-71.

Qadri, F. A. 2004. Economy and Society in Kamarupa and Environs as reflected in the context of Muhammad Bin Bakhtiyar's invasion. In M.Momin and C.A. Mawlong (ed) *Society and Economy in North East India*, Vol.1. New Delhi: Regency Publications, 260-68.

Qadri, F.A. 2003. Patron Sultan of King Ratna Manikya. In *NEIHA Proceedings*, Agartala Session. Shillong: NEIHA, 280-83.

Sharma, M. 2003. Interrogating Traditions: Towards a Conceptual Framework. In *Proceedings of North East India History Association*, XXIV Session. Shillong: NEIHA, 26-32.

Sharma, M. 2004. Socio-Economic History in Pre-Colonial North East India: Trends, Problems and Possibilities. In M.Momin and C.A.Mawlong (ed) *Society and Economy in North East India*, Vol.1. New Delhi: Regency Publications, 1-20.

Syiemlieh, D. R. 2003. Response of the Hill Tribes of North East India towards Partition, Independence and

Integration. Pratibha Devi Lectures, Gauhati University, 1-27.

Syiemlieh, D. R. 2003. Technology and Socio-Economic Linkages of the Khasi Jaintia in Pre-Colonial Times. In M.Momin and C.Mawlong (ed) *Society and Economy in North East India*, Vol.1. New Delhi: Regency Publications, 21-34.

Syiemlieh, D.R. 2003. Historical Survey on the Holy Cross Mission in the North East. In Priyam Goswami (ed) *Insight*. Gauhati: Department of History, Gauhati University, 45-52.

Infrastructure facilities acquired during the year:

The department acquired computers, scanners, a TV and CD player with grants from the university. These have been provided to faculty and research scholars and are in use as teaching aids.

Research Projects:

Various research projects were undertaken with the help of SAP/DRS. Faculty members of the department conducted archival and data collection in libraries and archives in Kolkata, New Delhi, Aizawl, Itanagar, London and Cambridge University.

Other Activities:

Professor F.A.Qadri delivered six lectures in a UGC sponsored refresher

course in History at the Department of History, Mizoram University Aizawl, on August 8-11, 2003.

Dr. Vanlal Ruata Rengsi participated in the annual workshop on "Migration" organized by Social Sciences Research Council (New

York) from 17th to 20th December 2003, Negombo, Sri Lanka.

Dr. C.A. Mawlong participated in the workshop on "The Use of Gender Neutral Language in the University" organized by the Women's Cell, NEHU, Shillong.

DEPARTMENT OF POLITICAL SCIENCE

Thrust Area of Research:

Contemporary Issues in Indian Politics.

Courses Conducted:

M.A. (Previous): 1st Semester: Political Theory-The Classical Tradition; Theories and Concepts in Public Administration; Government and Politics in India & Theory of International Politics. 2nd Semester: Political Theory-The Liberal Democratic Theory and Conservatism; Issues in Public Administration; Socio-economic Basis of the Indian Political System & Problems of International Politics.

M.A. (Final): 3rd Semester: Political Theory-Contemporary Marxist Theory and Modern Political Analysis; International Law; Traditional Government and Politics of the Hill Areas of North-East India; Political Economy of Human rights; Issues in Indian Administration; Research Methodology & Issues in Women's

Studies. 4th Semester: Contemporary Political Theory: Major Issues; Comparative Politics; International Organisation: Government and Politics of the Hill Areas of North-East India; Modern Indian Political Ideas; Foreign Policy Studies; Political Sociology & Issues in Environmental Studies.

Study Tour:

During 2003-04, Dr. B.K. Mohapatra, Lecturer, guided the students on study tour to Bangalore and Goa from 10th January to 3rd February 2004.

Seminars/Conferences:

Attended:

Prof. A.K. Baruah (i) Crisis State Project annual workshop sponsored by the London School of Economics, London held in the Wits University, Johannesburg on 14, 15 & 16 July 2003 and presented a paper on "Tribal Institutions and Crisis of Governance

Head	:	Professor B.J. Deb.
Faculty	:	
Professors	:	R.L. Walli, M.A., Ph.D. (JNU) A.K. Baruah, M.A., Ph.D. (Panj) R. Borgohain, M.A. (JNU) Ph.D. (Gau.) L.S. Gassah, M.A., Ph.D. (NEHU) B.J. Deb, M.A., Ph.D. (Gau.)
Readers	:	E. Laitflang, M.A., Ph.D. (NEHU) K. Debbarma, M.A., Ph.D. (NEHU) H. Srikanth, M.A., Ph.D. (Hyd.) P. Malngiang, M.A., Ph.D. (NEHU)
Lecturers	:	S. Sengupta, M.A., Ph.D. (NEHU) T.T. Haokip, M.A., Ph.D. (NEHU) B.K. Mohapatra, M.S., Ph.D. (JNU)

Student Intake: a) Enrolment capacity: 50 students each for M.A. & Ph.D.

b) Actual admission:	SC	ST	Genl	Male	Female	Total
M.A. :	-	51	-	29	22	51
Ph.D. :	-	4	4	8	-	8

c) Number of students qualifying NET: 2

in North East India" co-authored with Manorama Sharma and Rajesh Dev. (ii) Presented a paper on "Politics of Land Reforms in Twentieth Century Assam" at the national seminar on "Society and Economy in 19th and 20th Century North East India" organized by the Department of History, NEHU, Shillong on 1-3 March 2004.

Prof. L.S. Gassah participated in the seminar on "Society, Polity and Economy of N.E. Region: Agenda for the 21st Century" organized by ICSSR-NERC, Shillong and held at Shillong 28-29 August 2003 and presented a paper

on "Traditional System of Governance among the Khasis, Jaintias and Garo of Meghalaya".

Dr. K. Debbarma chaired a session at the regional seminar on "Human Rights" held on November 3-4, 2003 at St. Mary's College, Shillong.

Dr. H. Srikanth (i) presented a paper titled "Financial Crisis in the Indian Universities: Exploring Alternative Sources" at the UGC sponsored national seminar on "Economics of Higher Education" held on 29th & 29th November, NEHU, Shillong 2003. (ii) Presented a paper

on "Insurgency and Counter Insurgency: Agenda for Peace in the Northeast" at the national seminar on "Society, Polity & Economy of North Eastern Region: Agenda for 21st Century" organized by ICSSR-NERC, Shillong on August 28 & 29, 2003.

Dr. P. Malngiang (1) presented a paper on "Media and Peace" at the seminar on "Role of the Media in promoting peace in N.E. India" organized by North East Social Communication at Shillong, April 5, 2003. (ii) Presented a paper on "The Social & Cultural Awareness" at the seminar on "Social and Cultural Values and Education" organized by St. Mary's College of Teacher Education, Shillong on September 2, 2003. (iii) Presented a paper titled "Understanding our Society" at the seminar on "Leaders and Social Change" organized by the Women for Integrated Sustainable Development (WISE) and office of the Block Development, Mawjrong at Laitkroh on November 27, 2003. (iv) Presented a paper titled "The Uniform Civil Code and the North East" at the seminar on "Uniform Civil Code" organized by Lady Keane College and the Meghalaya College Teachers' Association, Lady Keane College Unit at Lady Keane College, Shillong on September 10, 2003. (v) Presented a paper titled "Translation of Poetry to Khasi Language" at the seminar on "The Importance of Translation in Khasi

Literature organized by Khasi Authors' Society and Sahitya Akademi, Shillong, September 12, 2003. (vi) Presented a paper on "Poetry and Society" at the seminar on "Poetry and Society" organized by the Sahitya Akademi and the Khasi Department, NEHU at Shillong on March 28, 2004. (vii) Presented a paper on "The Philosophy of H.W. Sten" at the seminar on "The Making of Khasi Literary Criticism" organized by the Department of Khasi at Shillong on March 18, 2004. (viii) Presented a paper on "Legal Awareness for Women" at the seminar on "Women's Development through Empowerment in Meghalaya" organized by the Centre for Adult and Continuing Education, NEHU at Shillong on March 24, 2004.

Dr. (Ms) S. Sengupta presented a paper titled "Entrepreneurship in Meghalaya" at the seminar on "Society and Economy in N.E. India (19th and 20th Centuries)" organized by the Department of History, NEHU, Shillong on 1st to 3rd March 2004.

Dr. B.K. Mohapatra presented a paper titled "Youth Employment and the Scenario in Meghalaya" at the seminar on "Youth Employment Summit" organized by the Educational Development Corporation, USA and sponsored by the Ministry of Youth Affairs, Govt. of India & Govt. of Andhra Pradesh, Hyderabad on December 14-18, 2003.

Organised:

The department organized two lectures during the year: (1) "India's Security Environment" by Gen. A. Saigal on 22nd August 2003 and (2) "Non-Traditional Security" by Prof. T.K. Oommen on 19th March 2004.

Publications:

Baruah, A. K. 2004. Ethnic Conflicts and Traditional Self-Governing Institutions: A Study of Laitumkhrah Dorbar. Working Paper No. 39, Working Paper Series No. 1, DESTIN, London School of Economics and Political Science, London.

Baruah, A.K. 2003. Meghalaya Election 2003: Decline of Regionalism. *Economic and Political Weekly*, 38(16): 1538-1541.

Research Projects:

Completed:

Prof. A.K. Baruah, "Criminal Justice in Meghalaya", funded by NUJS, Kolkata. Allocation: Rs. 75,000.00.

On-going:

Prof. A.K. Baruah, "Community Conflicts and Crisis of Governance" NEIDS and LSE sponsored project. Allocation: Rs. 12 lakhs.

Prof. A. K. Baruah, Manorama Sharma and Patricia Mukhim, "People's Expectations from Community Information Centres",

funded through NEIDS by NIC. Allocation Rs. 1,50,000.00.

Prof. L.S. Gassah, "Review of M.Phil/Ph.D Dissertations submitted to Political Science" funded by NEHU, ICSSR-NERC Rs. 5000/-, Autonomous District Councils: Critical Analysis, ICSSR-NERC, Rs. 25000/-.

Other Activities:

The department organized a refresher course for university and college teachers from 25th August to 14th September 2003. Prof. R. Borgohain co-ordinated the course.

Prof. A.K. Baruah delivered a lecture at IIT Bombay on "Identity and Conflicts in North East India" on 30th December 2003. (ii) Delivered a lecture on "Identity Crisis" at the Vivekananda Kendra, Guwahati on 10th December 2003.

Prof. B.J. Deb delivered 6 lectures at the UGC refresher course organized by the Department of Political Science, Mizoram University in February 2004 and submitted the final report on "Working of Targeted Public Distribution System in N.E. States" to the Ministry of Consumer Affairs & Public Distribution, New Delhi in September 2003.

Dr. H. Srikanth delivered four lectures at the refresher course on Research Methodology in Mizoram University, on October 9-11, 2003.

DEPARTMENT OF SOCIOLOGY

Thrust Area of Research:
Social Change

Background of Khasi Entrepreneurs”.
Supervisor: Prof. P. M. Chacko.

Degrees Awarded:
M.Phil.

Ph.D.
1. Pranjal Sharma, “A Sociological Study of an Oil Industry in Assam”.

1. Magreeta Jala, “A Social

Head : Prof. P. M. Chacko

Faculty with specialisation:

Professors : M.N. Karna, MA, Ph.D (Patna)
A. C. Sinha, MA (Ranchi), Ph.D (IIT/Kanpur)
(Retired w.e.f. 31st December 2003)
C. Nunthara, MA, Ph.D (Delhi) Political Sociology, Ethnic Relations and Emerging Inequality
P.M. Chacko, MA, PhD (Delhi) Sociology of Movements, Sociology of Economic Development
Nikhlesh Kumar, MA (Delhi), Ph.D (NEHU) Sociology of Occupation, Medical Sociology, Sociology of Organisation, Sociology of Dev. and Planning.
C.L. Imchen, MA, PhD (JNU) Social Change, Social Anthropology
Tiplut Nongbri, MA, Ph.D (Delhi) Family and Marriage, Gender Studies, Sociology of Environment

Readers : I.Lanu Aier, MA, Ph.D (NEHU) Political Sociology, Sociology of Development, Sociology of Stratification, Ethnic Studies
A.K. Nongkynrih, MA, Ph.D (NEHU) Sociology of Kinship

Lecturers : B. Panda, M.A., M.Phil (Hyd.) Ph.D (IIT/Kanpur) Social Movement, Sociology of Third Sector (NGOs)
Rekha M. Shangliang, MA, M.Phil (NEHU) Sociology of Environment

Student Intake: (a) Enrolment Capacity: M.A. = 45, M.Phil. = 18, Ph.D. = variable

	(b) Actual Admission					
	SC	ST	GENERAL	MALE	FEMALE	TOTAL
MA I	-	39	6	13	32	45
MA II	-	36	4	17	23	40
M.Phil	-	06	-	01	05	06

Supervisor: Prof. P.M. Chacko.

2. Sujata Dutta Hazarika, "Women Labourers of Tea Estates in Upper Assam". Supervisor: Prof. A.C. Sinha.

3. Gita Payal, "Social Dimensions of Child Labour in Andhra Pradesh". Supervisor: Prof. C. Nunthara.

4. Kewefuzu Lohe, "Social Dynamics of Chizami Village: A Sociological Enquiry". Supervisor: Prof. C.L. Imchen.

5. Kedilezo Kikhi, "A Sociological Study of Educated Unemployed Youth of Kohima Town of Nagaland". Supervisor: Prof. C. Nunthara.

6. Maushumi Bora, "A Sociological Study of the Slum Dwellers in Shillong". Supervisor: Prof. C.L. Imchen.

Courses Conducted:

Semester I: Sociological Theories; Methodology of Social Research I; Sociology of Kinship; Social Stratification.

Semester II: Sociological Theories II; Methodology of Social Research; Sociology of Religion; Urban Sociology.

Semester III: Economy and Society; Polity and Society; Sociology of Development; Ethnic Relations; Tribal Movements in India; Polity Formation in North East.

Semester IV: Sociology of Environment; Social Change; Gender and Society; Sociology of Entrepreneurship and Management;

Theories of Social Anthropology; Sociology of Movement.

The following courses were offered at the M.Phil level:

1. Perspectives in Sociological Research

2. Ethnic Relations

3. Tribal Societies.

Study Tours/Field Trips of Students:

The 3rd semester students of the department visited Bangalore and Goa from 2nd to 16th February 2003 to get an exposure to different socio-economic milieus. Moreover, their visit to some industrial settings of these places enabled them to understand industrial relations and work behaviour. They also visited some academic institutions/universities and interacted with the academic community there. Mr. Ricky A.S. Syngkon, Lecturer, Department of Commerce, NEHU accompanied the students as teacher-in-charge.

Seminars/Conferences:

Prof. M. N. Karna (1) organized the Indian Sociological Society's Research Committee 17: Social Movements Session at the All India Sociological Conference, held in Udaipur on 21-23 December 2003. (2) Delivered lectures at the orientation course on Research Methodology for the faculty of Social Sciences of North-

Eastern Region organized by the National Institute of Public Cooperation and Child Development from 24th November to 5th December 2003 at the Department of Economics, Tripura University, Agartala. (3) Presented a paper titled "Women's Ownership in Land in Tribal Areas of Meghalaya" at the workshop on "Gender Discrimination in Land Ownership" organized by the Centre for Rural Studies of LBS National Academy of Administration, Mussoorie on 5-6 February 2004.

Prof. Nikhlesh Kumar (1) Chaired the seminar on "Pressing Women's Issues in North-East", organized by the Department of Sociology, St. Edmund's College, Shillong on 27th September 2003 at St. Edmund's College, Shillong. (2) Chaired a session of an interactive University-Community Collaborative Programme on 22nd November 2003 organised by the Community Development Extension Programme, under the DRS-SAP scheme of the UGC, and held at the Department of Sociology, NEHU, Shillong. (3) Participated as a panelist in a symposium on "Tribal Situation in India - 73rd Amendment and After" on 22nd December 2003 at the XXIX All India Sociological Conference organised by the Indian Sociological Society at Udaipur on 21-23 December 2003. Also presented a paper on "Identity Politics in the Tribal Societies of the

North-Eastern India" on 23rd December 2003 at the same conference. (4) Chaired a session on "Women and Health" at the seminar on "Women and Development through Empowerment in Meghalaya", organised by the Unit for Adult and Continuing Education, NEHU on March 23-24, 2004.

Prof. C.L. Imchen presented a paper titled "Anthropology and The Tribal People" at the Golden Jubilee Seminar on Anthropological Perspectives on North East India, organized by the Anthropological Survey of India, North-East Regional Centre, Shillong 28-30 April 2003.

Dr. I. Lanu Aier presented a paper titled "Globalization: a street corner talk" at the seminar on "North-East India 2003: Challenge and Hope" held at Shillong on 14-16 October 2003, and organized by the Study Group for Relevant Theological Education in North-East India (SGRTE-NEI).

Publications:

Imchen, C.L. 2003. The Nagas and the Legacy of Civilising Mission of the Western World. In Joseph Anikuzhikattil et al. (ed) *Understanding Tribal Cultures*. New Delhi: Commission for Education and Culture, CPCIC.

Karna, M. N. 2003. *Social Change in India*. New Delhi: National Council of Educational Research and Training.

Nongbri, Tiplut. 2003. Democracy, Gender and Tribes: A Critical Appraisal of India's Constitutional Policies. *Indian Anthropologist*, 31(2): 1-14.

Nongbri, Tiplut. 2003. *Development, Ethnicity and Gender: Select Essays on Tribes in India*. Delhi and Jaipur: Rawat Publications.

Nongbri, Tiplut. 2003. Matrilineal Puzzle Re-examined: Dialectics of Kinship and Gender in North-East India. In Maitrayee Choudhury (ed) *Practicing Sociology*. New Delhi: Orient Longman.

Panda, B. and B. K. Pattanaik. 2003. Role of Grassroots NGOs: A Social activist's Perspective. *Journal of Rural Development*, 22(1): 21-44.

Funds received from agencies other than NEHU:

Rs.2,36,000.00, UGC under DRS-SAP programme Infrastructure facilities acquired during the year:

Computers 4, Printers – 11, White Boards – 12.

Research Projects:

Dr. I. Lanu Aier, "Gender Situation in Nagaland". Phase II field research completed and report submitted. Funded by DRS-SAP, UGC, New Delhi, Dept. of Sociology, NEHU.

Other Activities:

Prof. P. M. Chacko delivered 12 lectures on Sociology of Religion at

Sacred Heart College, Shillong from April 2 to 14, 2003.

Prof. A.C. Sinha retired on 31st December 2003 after 27 years of service in NEHU. Dr. Tiplut Nongbri joined as Professor on 8th December 2003 and Ms. Rekha M. Shangpliang joined as Lecturer on 2nd June 2003.

Prof. Nikhlesh Kumar (1) went to South District, Tripura during July 2003 in connection with the research project on "Physically and Mentally Challenged Persons in Tripura". (2) Taught a course on Research Methodology from 9th to 19th August 2003 at the Sacred Heart College, Shillong. (3) Delivered a lecture on "Social Interaction" on 16th September 2003 at the workshop on "Personality Development" organised by the Regional Training Institute of All India Radio, Shillong. (4) Delivered a series of lectures at the UGC-sponsored refresher course on "Research Methodology in Social Sciences" organised by Mizoram University at Aizawl on 16-17 October 2003. (5) Delivered a lecture at the UGC-sponsored refresher course on "Culture and Religion" organised by the Department of Philosophy, North-Eastern Hill University, Shillong 1 November 2003.

CENTRE FOR CULTURAL AND CREATIVE STUDIES

Thrust Area:

Performing Arts, Visual Arts and Folklore.

Academic Activities of the Centre:

(a) The Unit for Literary and Cultural Studies in this centre has successfully run the course titled P.G. Diploma in Folkloristics since 1989 and has produced a number of students who have gone for specialization in Folkloristics in other universities and institutes.

(b) From 18th August 2003, the Unit for Creative Arts has started PG Diploma courses in Music and Painting. About 30 students have enrolled in the two courses.

(c) Ph.D. programme has started at the centre. There are four scholars at present, two in Music and two in Folklore.

(d) On 4th April 2003, the Unit for Creative Arts presented "Meghalaya Folk Dance and Song" in Kalakshetra, Chennai. The troupe under the leadership of Dr. Helen Giri consisted of 15 performing artists and was accompanied by Dr. Lapyinshai Syiem, Lecturer and Mr. P. Ksoo, Programme Organiser. The items presented consisted of display of Khasi drum beats, group and solo songs in Khasi and Garo, *Phawars*, display of *Ka Tangmuri* (windpipe) and three

traditional Khasi dances – *Shad Suk Mynsiem*, *Shad Thma* and *Ka Shad Nguh Symphiah*. The unit has brought out a brochure on the programme.

(e) The centre organized a three-day workshop on Kathak Dance and Performances by renowned Kathak Dancer, Ms. Vidya Hari Deshpande on 25-28 April 2003. Trainees who have attended the workshop include instructors and students of the various dance institutes in the city and from traditional dance/music institutes from the outskirts of Shillong.

(f) Organised Bharatnatyam performance by the artists of Kalakshetra Foundation, Chennai at Shillong on 4th May 2003 and lecture-cum-demonstration at Nongpoh, Ri-Bhoi District on 5th May 2003. The above two programmes were excellently performed by the Kalakshetra artists under the leadership of Professor A. Janardhan.

(g) The Unit for Creative Arts, on the invitation and sponsorship of the Sangeet Natak Akademi, New Delhi sent a cultural troupe to Kerala to participate in the annual traditional music/dance festival held on 31st January 2004. The artists presented ten items of traditional music and dances of Meghalaya.

(h) The centre, on the request of the District Administration, Ri-Bhoi

Head : Professor Helen Giri

Faculty :

Professor : Helen Giri, M.A., Ph.D. (Gau.)

Lecturers : Desmond L. Kharmawphlang, M.A., Ph.D. (NEHU)
Prabodh Jhingan, M.A. (JNU)
M.H. Barbhuiya, B.Fine (W.B)
Lapynshai Syiem, M.A. (Gau.), Visharad (L'now)

Student Intake: a) Enrolment capacity: 20 each.

	SC	ST	Genl	Male	Female	Total
P.G. Diploma in Folklore:	- 14	-	-	5	9	14
P.G. Diploma in Music:	- 19	-	-	10	9	19
P.G. Diploma in Painting:	- 10	-	-	4	6	10

District, Govt. of Meghalaya, undertook the "Documentation of the Cultural Dances of the Raids of Ri-Bhoi District" on 27th February 2004.

Courses Conducted:

P.G. Diploma in Music, Painting and Folkloristics.

Study Tour:

1. On 29th September 2003, the students of PG Diploma in Music and Painting were taken on a field trip to Wahkhen of East Khasi Hills to study the traditional music, crafting of musical instruments, village life, traditional rural architecture and landscape. Prof. Helen Giri was the teacher-in-charge.

2. On 27th February 2004, a one-day field trip to Nongpoh was

undertaken for the PG Diploma students of music and painting under the charge of Prof. Helen Giri. This was undertaken to enable the students to observe and study the typical traditional music, dance forms and costumes at the "Cultural Display of the different Raids of Ri-Bhoi District" organized by the District Administration, Govt. of Meghalaya.

Seminars/Conferences/Symposia/ Extension Programmes etc:

In collaboration with the Jeebon Roy Memorial Welfare Institute Shillong, the Unit for Creative Arts organized a seminar on Babu Jeebon Roy on 16th October 2003. Shri C. Khongwir, Dr. Sylvanus Lamare, Dr. Lapynshai Syiem and Dr. Emilius Nongbri presented papers on the

contribution made by Babu Jeebon Roy to the field of performing arts, economic development for the promotion of Khasi literature.

Helen Giri (1) chaired the seminar on "U Babu Jeebon Roy" held on 16th October 2003, organized by Jeebon Roy Memorial Institute, Shillong in collaboration with the Unit for Creative Arts, NEHU. (2) Jointly presented a paper with Dr. Lapynshai Syiem on "Ki Shiphew Ksing bad Arphew Hynniew Skit (The Ten Units of Drums and Twenty-seven Beats) of the Khasis: An observation" at the national seminar organized by the Assam Academy for Cultural Relations in collaboration with the National Museum Institute, New Delhi, held on 18th and 19th October 2003 in Guwahati.

D.L. Kharmawphlang (1) participated in the Poets' Meet at Guwahati, organized by Sahitya Akademi, on June 4th 2003 and read his poems. (2) Participated in the "North East Poets' Ensemble" and chaired a session on September 27th, 2003 and read his poems. (3) Presented a paper titled "The *Phaiang* Encounter: Reanimating a sacred forest" at the national seminar on "Understanding Tribal Imagination" organized by Indira Gandhi National Centre for the Arts, New Delhi. January 6-8, 2004. (4) Presented a paper titled "Poetry, Lore and Tradition: Khasi Phawar tradition" at the national seminar on "Folklore and Discourse"

organized by Madras University, National Folklore Support Centre, Chennai and Government of India. (5) Participated in the Poets' Meet organized by Sahitya Akademi, Mumbai on February 7-8, 2004 and read his poems.

M.H. Barbhuiya presented a slide show of paintings, drawings and graphic prints specifically on the issue of gender discrimination and politics of identity at the seminar on "Narrative of North-East India: Creativity, tradition and interpretations" at Women's College Shillong on 6th September 2003 organised by Women's College, Shillong in collaboration with Katha, New Delhi and ICSSR-NERC.

L. Syiem (1) presented a lecture-cum-demonstration at the Kalakshetra Foundation, Chennai as part of the Meghalaya Folk Dance/Music Programme held on 4th April 2003 in Chennai on "Khasi Music: A peep into its Rhythmic Pattern". (2) Presented a paper on "U Jeebon Roy and the Performing Arts of the Khasis" on 16th October 2003 at the seminar organized by the Jeebon Roy Memorial Institute in collaboration with the Unit for Creative Arts, NEHU, and held in the Conference Hall, Centre Point, Shillong. (3) Jointly presented a paper with Prof. Helen Giri on "Ki Shiphew Ksing Bad Arphew Hynniew Skit (The Ten Units of Drums & Twenty Seven Beats) of the

Khasis: An Observation” at the national seminar organized by the Assam Academy for Cultural Relations in collaboration with the National Museum Institute, New Delhi, held on 18-19 October 2003 in Guwahati.

Publications:

Handoo, J., D. Kharmawphlang and S. Som (ed). 2003. *Folklore in the Changing Times*. Bhopal: Indira Gandhi Rastriya Manav Sangrahalaya.

Infrastructure facilities acquired during the year:

1. Modelling Studio along with Enamel Furnace and accessories for PG Diploma in Painting.
2. Terracotta Furnace along with Shade.
3. Classroom furniture for Music classes and Painting & Modelling studios.

Research Projects:

Ongoing:

Prof. Helen Giri, “Documentation of the different art forms of Meghalaya”.

Dr. Lapyنشai Syiem, “Collection of Rhythmic Patterns of the different Raids (Administrative Unit) of the Khasi Native States and Notation of the same”.

Honour/Award/Recognition:

M.H. Barbhuiya was invited as Artist-in-Residence by the National Lalit Kala Akademi at the Rashtriya Lalit Kala Kendra, Kolkata from 3 to 13 February 2004. During the residency, he delivered three lectures backed by slide shows and had several interactive sessions with artists and art critics of Kolkata. He also painted during the residency and donated the same to the Kendra. He is the first artist from North-East to be invited to such a prestigious residency programme.

L. Syiem was awarded the degree of Doctor of Philosophy (Ph.D.) by NEHU in June 2003 on the topic “The Evolution of Khasi Music: A Study of the Classical Content”, supervised by Prof. B.L. Swer, Khasi Department, NEHU and jointly supervised by Dr. Sharayu Kalekar, Ex-Vice-Chancellor of Khairagarh University, Madhya Pradesh.

Other Activities:

Dr. Lapyنشai Syiem, Lecturer, has been appointed as Expert Member of the Sub-Committee of St. Anthony’s College, Shillong, for framing the course structure on Music of North-East with special reference to Meghalaya and Indian Classical Music (Vocal) for B.A. (Hons) in Music.

VII

Central Services

CENTRAL LIBRARY

During the year 2003-04, the NEHU Central Library has made yet another significant progress in automation towards completion of Retrospective Conversion for the entire holding of 1,21,105 volumes. The work was completed well ahead the target time. Further, for effective retrieval and utilization of the documents, the data entry and key word indexing has been started by the Documentation Section. With the appointment of a Documentation Officer, the section was reorganized and active services pertaining to government publications, reports and documents of international bodies and non-government organization are now actively availed by the students and research scholars. In addition with the help of article indexing module of the LIBSYS v4 package number of bibliographical databases on contemporary issues of North East have

been created. The indexing of important news articles from local newspapers published in the vernacular Khasi language has also started. Separate database for the newspaper articles is under consideration.

Library Membership:

2003-2004

Students	1552
Research Scholars	662
Teaching Staff	219
Non-teaching Staff	342
College Teachers	286
Others	94
Total	3115

Other Statistics:

2003-2004

Total collection	2,21,838
Books added	3,217
Books processed	3,466
Data entry in article indexing	2,234

Articles assigned key	
Word indexing	1,000
Journals subscribed	458
Daily Average Issue	337
Daily Consultation	260

Revenue Generated by the Library during the year:

1. Reprographic Charges –	Rs. 67,432/-
2. Fine realized	- Rs. 5,891/-
Total	- Rs. 73,323/-

Academic Contribution:

Mrs. I. Majaw, the Librarian, delivered a lecture on 4th December 2003 on “Compiling a Bibliography: Tool for an Indigenous Literature” at the workshop on “Compilation of Bibliographies in the North East Indian Languages”. The workshop was conducted by the Department of Library and Information Science in collaboration with the National Reference Library, Kolkata on 1-5 December 2003.

A two-day convention, PLANNER 2003 on the theme “Automation of

Libraries in North-Eastern Region: Trends, Issues and Challenges” held on November 6-7 was organized by Information and Library Network Centre, (INFLIBNET), Gujarat in collaboration with North-Eastern Hill University, Shillong. A large number of delegates, numbering 270 in all, attended the convention. A souvenir was also released on the occasion.

The Documentation Officer, Dr. Lalmachhuana, was awarded the degree of Doctor of Philosophy (Ph.D) in Library and Information Science by North-Eastern Hill University.

Mrs. A. Rajee, JLA, obtained M.Lib. & Inf. Sc. degree.

During the year, the following staff were involved in training and workshop organized by National Library, Kolkata and the Department of Library and Information Science at NEHU.

1. Smti G.W. Lyngdoh, SPA
2. Smti S. Lyngdoh, SPA
3. Sri. R. Rynjah, JLA.

COMPUTER CENTRE

The centre provides computation facility to faculty members, research scholars and students of the university, conducts training programmes in computer related subjects and

develops software for the university.

Brief Statement of Activities:

Taught Accounting Information System course to 4th semester M.Com

Head	:	S.N. Rai
Staff	:	
Director	:	S.N. Rai, Ph.D.(BHU)
Reader	:	T.K. Sinha, Ph.D (NEHU)
Sr. System Analyst	:	P.P. Dey, B.Tech.(R.E.C. Warangal)
Systems Analysts	:	B. Rynjah, B.Tech. (JNTU College of Engineering, Kakinada) (on study leave to IIT, Chennai) S. Ghosh, M.E. (Jadavpur Engineering College)

students. Research scholars and teachers/non-teachers from various departments/centres utilized the facilities of the centre for computational work, documentation and Internet browsing.

As and when required, members of the centre have inspected colleges seeking affiliation, and have been subject experts in selection committees. Also, they have been actively involved in examination works of the university. They worked as external examiners to various colleges, set question papers, did moderation of papers and evaluated answer scripts.

The centre has been assisting Finance, Examination and Administration departments of NEHU. Mr. P.P. Dey is maintaining the software of the Finance Department and Mr. S. Ghosh is involved in the computerization of University Management System. Three Data Entry operators of the centre are involved in the Examination

Department's works.

The CIC, BCA and MCA computer courses of IGNOU were conducted at the centre during the weekends throughout the year. A special one-month duration Computer Literacy Programme (CLP) for women was conducted at the centre and 4 batches of students have been trained.

Seminars/Conferences:

The centre organized an Autumn School on "Pattern Recognition and Data Mining with Application to Web and Biological Data" on August 23-26, 2003 in collaboration with the Machine Intelligence Unit, Indian Statistical Institute, Kolkata. Dr. T.K. sinha was the local organizer. Mr. P.P. Dey, Dr. T.K. Sinha and Mr. S. Ghosh attended the Autumn School.

Other Activities:

Mr. S. Ghosh attended the "School on Data Mining and Bioinformatics: Recent Trends" held at

Sikkim Manipal Institute of Technology during March 22-26, 2004.

Dr. S.N. Rai was on a short visit to the Theoretical Chemistry Group of the University of Wuppertal, Germany in the first week of May 2003. He worked as the chairman of the Board of Under-graduate Studies for Computer Science and Engineering. Also, he worked as the chairman of a committee constituted by the Vice-Chancellor, NEHU to discuss the possibilities of collaboration with

outside institutions to launch various computer courses. Mr. P.P. Dey developed software for data analysis for the research project work of Prof. Surinder Singh, Department of Geography, NEHU. Dr. T.K. Sinha has been appointed as Joint Supervisor for a Ph.D student in the Commerce Department, NEHU. The centre generated a revenue of Rs.34,294/- and managed the Internet facility at Bijni Complex.

HEALTH CENTRE

The Health Centre has two branches – one at Bijni Complex, Laitumkhrah and the other at the Permanent Campus catering to the health needs of teaching and non-teaching staff including their dependents and students. It has the following facilities:

Consultation:

Medical Officers are available for consultation at fixed hours as well as for emergency consultation outside duty hours.

Pharmacy:

The required medicines are purchased from wholesale suppliers and stocked at the Health Centre.

These medicines are issued to the patients based on the prescription by the university doctors.

Dressing Room:

Dressings, injections and minor surgical procedures are carried out in the Dressing Room.

Immunisation:

Routine immunization is carried out and NEHU Health Centre participates in the National Pulse Polio Immunisation Programme.

Sports:

First Aid service is provided at sports meets and tournaments.

Ambulance:

Ambulance service is provided during emergency for transporting the severely ill patients from residence to Health Centre/hospital.

Laboratory:

Bio-chemical tests for blood and urine analysis has been started at the Health Centre.

In-Patient Treatment:

Patients requiring in-patient treatment are referred to the hospitals within and outside Shillong depending

upon the necessity.

Credit Billing Facility:

We have credit billing facility available for patients admitted in Nazareth and K.J.P. hospitals in Shillong and C.M.C. Hospital at Vellore.

Voluntary Blood Donors:

The Health Centre maintains a list of Voluntary Blood Donors from among NEHU community and arranges for blood donors in case of emergency for the needy among NEHU community as well as outside NEHU.

LIBRARY (Tura)

The development of any academic institution can be visualised by the development of its library within the campus, and Tura Campus Library is a unique example of the same. It is rendering services not only to its faculty, staff, and students, but also catering to the needs of neighboring institutions of East, West and South Garo Hills. The library has rich collection of books and subscribes to a large number of learned Indian and foreign periodicals. It is a nodal centre of wisdom for recreation, inspiration and information. This library is now in the process of computerization and automation work may be over by the

end of June 2004.

During 2003-04 the campus library registered outstanding progress in terms of collection, development and library automation.

Book Grant:

(a) General Book Grant (Plan):
Rs. 8.00 Lakhs

(b) Special Grant (Non-plan):

i) Journals = Rs. 5.00 Lakhs
ii) Books = Rs. 2.00 Lakhs
= Rs.7.00 Lakhs

Periodical Subscription:

- (a) Periodical Grant = Rs. 5.00 Lakhs
(Non-Plan)
(b) No. of Journals Subscribed - 115
i) Indian Journals - 73
ii) Foreign Journals - 42

Book Collection as on 31.03.2003:

- (a) No. of Books Purchased - 7877
(b) No. of Books (Gift) - 211
(c) Books added during the year-1108

Circulation Statistics (Issue/Return of Books):

- (a) Students - 80 per day
(b) Faculty members - 33 "
& others
Total -113 "

Library Consultation Statistics:

- (a) Reference Materials - 65 per day
(b) Books/Journal - 100 "
Total - 165 "

No. of Registered Members:

- (a) Students - 150
(b) Teachers - 22
(c) Officers/Non-teaching - 25
Total - 197

Reprographic Services: (33,466 exposures)

During the year Library provided 33,466 exposures to students, faculty members and other staff.

New Development:

- 1) The library received Libsys –4

software in the last week of March 2003 and its became operational w.e.f. August 2003. Libsys Corporation sent their Service Engineer to give on spot training to staff to operate Libsys software. Later, library staff were sent for training programme for 1st and 2nd level of Libsys training at Kolkata w.e.f. 16th to 25th June 2003 and 8th –12th December 2003, respectively. The following library staff attended both the training programmes:

- a) Mr. A.K. Mondal
Professional Assistant
b) Mr. Santosh Kumar
Semi-Professional Assistant

2) Libsys–4 software upgraded in March 2004.

3) Library acquired two more computers as students/faculty terminals for OPAC.

4) The Library Staff were engaged in House Keeping operation and w.e.f. August 2003 to March 2004 database of 5256 vols. have been completed and rest will be over by June 2004.

Academic Activities:

Dr. A.K. Kundu, Dy. Librarian, delivered lectures on various topics of interest at the 2nd UGC sponsored refresher course in English Department on 21st & 22nd November 2003. He was also a resource person in the two-day orientation programme

on "Information Explosion and how to use Library effectively" organized by Tikirikala College, Tikirikala for the students and faculty members to inculcate reading habits.

Seminars/Conferences:

Dr. A.K. Kundu presented a paper on "Readability Studies: Their Relevance in Libraries with special reference to Humanities Text" at the national seminar on "Revisiting Language and Literature: Key Issues" organized by Department of English, NEHU Tura Campus, Tura on 3rd and 4th November 2003.

Publications:

Kumar, Santosh and A. K. Kundu. 2004. Social Transformation through Library: A Critical Review. *Indian Journal of Library Information and Society*, 17(3-4).

Kumar, Santosh and A. K. Mondal. 2004. Resource Sharing through Networking of Academic Libraries (ACNELIBNET) in North-East India. *Indian Journal of Library Information and Society*, 17(1-2).

Kundu, A.K. 2003. Choosing an Effective Library System. *Indian Journal of Library Information and Society*, 16(1-2): 86-89.

Kundu, A.K. 2004. A Man for All Seasons-Prof. P.N. Kaula. *Indian Journal of Library Information and Society*, 17(1-2).

Library Staff:

Dr.A.K.Kundu, M.Lib.Sc., Ph.D. (BHU)

Dy Librarian

Mr. A.K. Mondal, M.LISc. (NEHU)
Professional Asstt.

Mr. Santosh Kumar, M.A., M.LISc.
(BHU)

PUBLICATION CELL

The NEHU Publication Cell was created with a view to promoting and undertaking publications in various areas and for different target groups. It has mainly concerned itself with the publication of university and undergraduate textbooks, general books, supplementary reading materials, reference books, research works particularly those relating to the

North-East, Endowment Lectures delivered in the university and official publications like the university calendar, the Annual Report, *NEHU News and The NEHU Journal*. NEHU Publications also publishes six higher-secondary textbooks as per a standing agreement with the Meghalaya Board of Higher Secondary Education.

Apart from these, the cell is also

functioning as the official printer of the university.

This is a largely self-financing unit and has developed out of a small investment made at the time of its establishment. The press for which there is a separate Press Revolving Fund is also largely self-financing. At present the cell is revamping its different units based on elaborately prepared blueprints and the cell has been undertaking almost all printing jobs emanating from the various departments and centres of the university. On the distribution front, besides opening a sale outlet at Tura Campus, it is also entering into contracts with major distributors in almost all university towns in the North-East and elsewhere in the country.

Printing, reprinting and publication of the following works were taken up during the period under report:

1. *NEHU News* (April-June, July-Sept, Oct-Dec 2003, Jan-March 2004).
2. *The NEHU Journal* (Vol.I, No.2 July 03) issue.
3. *SRC Newsletter* (April-September 2003) issue.
4. Phuit ! Ka Sabuit !
5. *NEHU Anthology of English Verse*
6. *NEHU Anthology of English*

Prose

7. *Anthology of Contemporary Poetry from the North-East*
8. *A History of Modern World*
9. *The Great Earthquake of 1897*
10. *Folklore in the Changing Times*
11. *29th Annual Report*
12. Prospectus and Admission Forms for 2003-04
13. NEHU Calendar Vol. I
14. Convocation Programmes & Booklets
15. Forms, certificates, folders and stationery items for various departments.

Sales during the year relating to these categories of books is as follows:

1. Textbooks - Rs.2,37,052.00
2. General Books - Rs. 28,807.00

The cell has been organising some book releases and participating in several book fairs and exhibitions during the year. The highlight of the cell's achievement for the year is the inclusion of its "Anthology of Contemporary Poetry from the North-East," edited by Kynpham Singh Nongkynrih and Robin Singh Ngangom, in the Nagaland University syllabus for the MA programme in English.

SOPHISTICATED ANALYTICAL INSTRUMENTATION FACILITY (SAIF)

Thrust Area of Research:

Formerly known as Regional Sophisticated Instrumentation Centre (RSIC), the SAIF provides analytical services, conducts training/workshops and also offers limited repair and maintenance services in computerized instrumentation and compressor based system.

Brief Statement of Academic Activities:

Dr. T Chakraborty of this centre has taught the M.Sc Physics IV Semester "Laser Physics" course and Molecular Physics part of M.Sc. III Semester "Atomic and Molecular Physics" Course.

Head : Prof. B. Myrboh

Scientific Staff :
Professor : R. P. Bajpai, M.Sc. (Phys., AMU), Ph.D. (Theo. Nucl. Phys., Glasgow) (Temp. Attached)

Senior Scientific Officer: Dr. Taposh Chakraborty, Laser Raman and Infrared Spectroscopy, Instrumentation

Scientific Officers:

1. Dr. Sudip Dey, Physiology, Cell Biology, Environmental Sciences, Electron Microscopy
2. Mrs. Begonia Dkhar, Fish Biology, Electron Microscopy
3. Dr. Debashish Dey, Organometallic Chemistry, NMR Spectroscopy
4. Dr. P. S. Dkhar, Analytical Chemistry, Trace Element Analysis

Research Scholars:

- (a) No. of Research Scholars from NEHU – Nil
No. of Research Scholars from outside NEHU – 9
- (c) No. of Research Scholars from Meghalaya – 5
No. of Research Scholar from outside Meghalaya – 4

Funds Received from Agencies other than NEHU:

From Department of Science & Technology, New Delhi

Non Plan : Rs. 12,30,000.00

Plan : Rs. 17,50,000.00

Workshop/Training Conducted:

(i) A 10-day Short Term Training Programme on Electron Microscopy, from 22nd to 30th December 2003, at Bijni Complex, Shillong. A total of 15 persons participated in the workshop.

Seminars/Conference/Symposia/Extension Program:

Professor R. P. Bajpai delivered talks on "Biophotonic indicators of the quantum nature of living systems" and "Implications of biophoton to Consciousness" at the International Summer School on Biophotons held from August 20 to September 20, 2003. He attended the international symposium on Biophoton and Biophotonics at Beijing, China from Oct 5 to Oct 12, 2003 and delivered on "Parameters Characterizing Spontaneous Biophoton signal as a Squeezed State in a Sample of *Parmelia.tinctorum*" He also attended the National Symposium on Medical Science and Technology for population welfare at IIT Khargapur from Oct 27-29, 2003 and delivered a talk on

"Applications of biophotons to health and food quality".

Dr. S. Dey, Scientific Officer, chaired a session at the EMSI Annual Conference, Simla 2003.

Publications:

Arjun, J., M. Das, P. S. Dkhar, S. Dey and M. K. Das. 2003. Role of vitamin C pretreatment on reducing the blood lead level and lead induced toxic effect in erythrocyte cell membrane. *Proc. Nat. Aca. Sci, 72B(III) & IV: 257-265.*

Bajpai, R.P. 2004. Biophoton Emission in a Squeezed State from a Sample of *Parmelia tinctorum*. *Phys. Lett., A 322: 131-136.*

Bajpai, R.P.(Guest Editor). 2003. *Indian Journal of Experimental Biology, 41: 383-544.*

Bajpai, R.P. 2003. Preface. *Ind. Jour. Exp. Bio., 41: 385-387.*

Bajpai, R.P. 2003. Biophoton Emission of a Lichen Species *Parmelia.tincotrum*. *Ind. Jour. Exp. Bio., 41: 403-410.*

Bajpai, R.P. 2003. Quantum Coherence of Biophoton and Living Systems. *Ind. Jour. Exp. Bio., 41: 514-527.*

Bhattacharjee, C. R., S. Dey and P. Goswami. 2003. Protective role of ascorbic acid against lead toxicity in blood of albino mice as revealed by metal uptake, lipid profile and ultra

structural features of erythrocytes. *Bull. Environ. Contam. Toxicol.*, 70: 1189-1196.

Bhuyan, R. N., S. Dey, S. Bordoloi and A. Dutta. 2003. Scanning Electron Microscopic study of ovary, egg surface structure and hatchlings of *Labeo gonius* (Hamilton: Buchanan) at mid altitudinal area of Shillong, Meghalaya with reference to induced breeding. *Aquacult.*, 4(1): 93-103

Chakraborty, R., S. Dey, P.S. Dkhar, D. Ghosh, S. Singh and D. K. Sharma. 2003. Accumulation of heavy metals in some fresh water fishes from eastern India and its possible impact on human health. *Poll. Res.*, 22(3): 253-257.

Dey, S., R. N. K. Hooroo, N. Biswas and P. S. Dkhar. 2003. Developmental changes in surface architecture and some inorganic components in muga silk moth, *Antheraea assama* eggshell (chorion). *Secologia*, 43(1): 48-54.

Roy, B, S. Dey and J. R. B. Alfred, 2003. Stereoscan observation the morphology and distribution pattern of leg sensilla in *Chironomus samoensis*, Edwards: a comparative study of male and female. *J. Nation* 15(1): 279-298.

Research Projects:

(a) Ongoing:

“A Lab to Land Programme on

Application of Structural Biological Studies to Non-Mulberry Silk Industry in Relation to Increased Silk Out-put”.

Project Cost: Rs.10.02 Lakhs

Funding Agency:

Govt. of India, Ministry of Development of Northeastern Region. Northeastern Council Secretariat. Shillong.

(b) New:

(i) An Inter-disciplinary Project on “Research on the Bio-diversity of the region with special emphasis on the medicinal and aromatic plants”, under the co-ordinatorship of Prof. B. Myrboh. Funded by NEC.

(ii) Project on “Pollutant in common edibles with reference to human health in urban Meghalaya” funded by the Ministry of Environment and Forest under the Supervision of Dr. Sudip Dey, Scientific Officer, SAIF.

Infrastructure Development:

A new Scanning Electron Microscope, Model: JSM-6360 (PC Controlled) Manufactured by M/s JEOL, Japan, costing Rs.40,00,000.00 has been installed.

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

Thrust Area:

The primary thrust areas are instrumentation applications, development and maintenance.

Brief Statement of Activities:

USIC conducted a one week Computer Awareness Programme and also conducted a ten-day course in Basics of Electronics.

table locks and Steel Almirah locks for Examination Section, NEHU.

2. Fabrication of M.S. flag hoisting pole for Kendriya Vidyalaya, NEHU.

3. Fabrication of two M.S. frames of portable glass board stands for Department of Mathematics, NEHU.

4. Fabrication of M.S. 84 frames of laboratory tables for departments in

Head : Professor (Ms.) P.V. Koparkar

Faculty :

Professor : P.V. Koparkar, M.Sc., Ph.D. (Nagpur)

Seminars/Conferences/Symposia, etc.:

Professor P.V. Koparkar and L. B. Rathore presented a paper titled "A Glass fiber vibration sensor for seismic studies (CP-40)" at the national symposium on instrumentation NSI-28 held at G. B. Pant University, Pantnagar, Uttaranchal, on 3-5 November 2003. She also presented with A. K. Baruah a paper titled "A microprocessor controlled water management system for large plantations (CP-42), and with John M. Shotun a paper titled "A liquid level monitoring system for HPLC applications (CP-41) at the same symposium.

Other Activities:

Mechanical Section:

1. Repair of Steel Almirahs, Steel

Life Sciences, NEHU.

5. Fabrication of 6 M.S. frames of computer tables for P & S, NEHU.

6. Fabrication of fifteen aluminium brackets for the laboratory instrument for Department of Chemistry, NEHU.

7. Fabrication of one iron grate of drain water for Estate section, NEHU.

8. Repairs of spectrometer plate for Department of Physics, NEHU.

9. Fabrication of two special type of screws and glass plate holder for Department of Physics, NEHU.

10. Repair of 12 steel chairs for Kendriya Vidyalaya, NEHU.

11. Fabricated 2 pairs of M.S. Badminton pole for Kendriya Vidyalaya, NEHU.

Electronics and Electrical Section

1. Design and fabrication of multivibrators Monostable and Bistable for Department of Physics, NEHU.
2. Repairs of Lathe machine's pumps.
3. Repair of Mobile Fabricator.
4. Repairs of Air Compressor for USIC.
5. Electrical wiring in the Electronics Lab I and II of USIC.
6. Repairs of the Xerox Machine.
7. Laying of Electrical cable of carpentry section.
8. Internal Electrical maintenance.
9. Repair and maintenance of USIC machines.
10. Fabrication of Extension boards for internal use.
11. Repair of one Instrument in Bio-informatics Centre.
12. Repair of the different type of instruments from different departments of affiliated colleges.
Physics: About 30 instruments like volt meter, Ammeter, Diode characteristics sodium lamps, power supplies etc.
Chemistry: about 20 instruments such as Electronics Balance, stabilizer, pH-meter, heating mantle etc.
Botany: Electrical ovens.
Zoology: Electrical ovens.
13. Repaired 4 vacuum pumps, 10 Magnetic Stirrers, 1 Hot Plate, 34 Heating Mantles, 3 Melting Point

Apparatus, 1 Electrical Variac from the laboratories of the Department of Chemistry, NEHU.

14. Repaired 1 refrigerator and 1 T.V.

Glass Blowing Section

1. Cutting and drilling of glass tubes, boring of glass tubes, cutting of glass tubes, fabrication of glass test tubes, joining of glass tubes, glass bending in U Shape, repair of stock glass apparatus, fabrication of NMR glass funnels and fabrication of aluminum brackets for the Department of Chemistry, NEHU.
2. Repair of condenser, glass knocks for the Department of Botany, NEHU.
3. Fabrication of glass slab for electrophoresis for Department of Biochemistry, NEHU.
4. Repairing of glass tubes of distillation unit, fabrication of glass ring, fabrication of glass microscope cabinet for DRS-III programme, for the Department of Zoology, NEHU.

Carpentry Section

1. Fabrication of 81 sofa sets for teachers quarters.
2. Fabrication of 84 laboratory tables, 56 laboratory shelves and supply of chalk boards for life sciences.
3. Fabrication of new paper stands for the following hostels.
(i) Chunglung Research Hall 4 Nos.

- (ii) Sohpetbneng Research Hostel 4 Nos.
4. Fabrication of 6 chalk boards.
 5. Fabrication of 7 computer tables.
 6. Fabrication of furniture for V.C's residence.
 7. Fabrication of wall-to-wall table and shelves for Department of Zoology, NEHU.
 8. Fabrication of temporary shed for storing wood.
 9. Fabrication of 3 tables for University's VSAT facility.
 10. Fabrication of small box for University's VSAT facility
 11. Fabrication of furniture for Central School
 12. Fabrication of 2 suggestion boxes for the Department of Zoology, NEHU.
 13. Fabrication of 1 box for photocopying machine at V.C's Office.
 14. Fabrication of 2 notice boards for NSS
 15. Repairs of almirah painting etc. for NSS
 16. Fabrication of 2 chalkboards for the Department of Mathematics, NEHU.
 17. Fabrication of wall-to-wall computer tables 1 room hub and box for hub for examination section.
 18. Repairing distempering and fixing of glass in examination section, NEHU.
 19. Providing power and electrical supply for computer in Examination Section, NEHU.
 20. Fabrication of EPBX box USIC.
 21. Fabrication of 3 wooden racks
 22. Fabrication of 2 telephone tables
- Optical Instruments Maintenance
1. Repairs of the following instruments for affiliated college of the University, namely St. Mary College, Shillong.
 - (i) 28 Microscopes
 - (ii) 15 Physical balances
 2. Repaired 12 microscopes of Department of Zoology, NEHU.
 3. Repaired 1 research grade microscope of the Department of Biochemistry, NEHU.

The following staff of the centre were sent for training outside Shillong.

Name	Subject	Duration	Place of Training/Organiser
Mr. P.N. Sharma	Workshop practice in Glass Blowing	22-26 September 2003.	Rani Durgavati Univ., Jabalpur in collaboration with WRIC, Mumbai.
Mr. B.D. Gupta	Computer	15-20 September	Department of Electronic

Mr. S.N. Sharma	Computer Hardware Maintenance & Assembly. Computer Hardware, Maintenance & Assembly.	2003. 15-20 September 2003.	Science Gauhati Univ., Guwahati in collaboration with WRIC, Mumbai. Department of Electronic Science Gauhati Univ., Guwahati in collaboration with WRIC, Mumbai.
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VIII

Development Departments

PLANNING DEPARTMENT

The Planning Department is concerned with the upliftment of administrative function for the economic and educational development of the university. The university is proposing to open the Department of Rehabilitation Sciences. Correspondence has already been made with the UGC for approval and establishment of the same in the university. A detail proposal for funding, infrastructure and staff will be submitted to the UGC on receipt of the commission's approval in principle.

The UGC has recommended opening of a Department of Statistics in the Xth Plan allocation. The AC & EC considered this recommendation and suggested that the Centre for Applied Statistics be merged into the proposed

Department of Statistics. It may be further noted that during this plan period the UGC has granted one centre for Bioinformatics and one for Biotechnology. The university has moved the UGC to allow the merger of these two centres into a department of Biotechnology and Bioinformatics, and is awaiting a positive response.

The university has proposed under the Xth Plan the establishment of an Institute of Mass Communication. Correspondence has already been made with the Ministry of Human Resource Development for approval and establishment of the same. In this regard the ministry's approval is still awaited.

CAMPUS DEVELOPMENT DEPARTMENT [Progress During 2003-04]

Sl.No	Name of Work	(1.4.03 to 31.3.04)
I	<p>UNDER IX PLAN (2/3RD CATEGORY) Construction of Administrative Building. I. Main Building II Sub Station Building</p>	<p>Work completed during 2003-04 Work completed during 2003-04</p>
I	<p>UNDER IX PLAN (1/3RD CATEGORY) (a) Construction of 9 units of Non-Teaching Staff quarters (allotted 8 units) (i) Type IV – 2 Units (ii) Type IV – 1 Unit (iii) Type V – 1 Unit (b) Construction of 4 Units of Teaching Staff quarters (Allotted 3 Units) (i) Warden's Residence-1 Unit (ii) P Type – 1st & 3rd Unit (iii) P Type – 1 Unit (c) Construction of Central Library (Phase-II)</p>	<p>1 unit completed, 2nd unit 90% completed Civil work completed during 2003-04 Civil work completed during 2003-04 Civil work completed during 2003-04 Structure completed Structure completed Structure completed</p>
III	<p>UNDER NON-LAPSABLE POOL (PHASE-I) Construction of Library Building (Phase-I)</p>	<p>Work completed during 2003-04</p>
IV	<p>UNDER NON-LAPSABLE POOL (PHASE – II) (a) Construction of Kendriya Vidyalaya building and 33 units of staff quarters (Phase-II) (i) Remaining work of the School Building (ii) 33 units of staff quarters (b) Construction of 7 academic depts. (c) Construction of additional space for Life Sciences (Phase-II) (d) Construction of Boundary Wall (Phase-III)</p>	<p>Work completed during 2003-04 90% work completed 92.5% work completed 94% work completed Work completed during 2003-04</p>
V	<p>UNDER NON LAPSABLE POOL (PHASE-III) (a) Construction of Central Library Building (Phase-II)</p>	<p>85% of the work completed</p>

VI	<p>(b) Construction of 2 Units of Academic Buildings (c) Construction of Auditorium cum Conference Complex</p> <p>UNDER NON-LAPSABLE POOL (PHASE-IV) (a) Construction of boundary wall on the rear side of the campus</p> <p>(b) Construction of 12 units of Non-Teaching staff quarters</p>	<p>97% of the work completed</p> <p>Planning and design work 50% completed. Project has been replaced by Multiuse Convention has as desired by the visiting team from the PMO, MHRD and DONER during 2003-04. Sanction for Multiuse Convention hall is awaited.</p> <p>Work completed for a length of 5.00 k.m. Approval of the R.E. is awaited from UGC to complete the remaining length of 2.90 K.M.</p> <p>Type-I-4 units completed. Type-II-2 Units completed and 65% progress made for the other 2 units. For Type-III – 4 units, 17% progress has been made.</p>
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COLLEGE DEVELOPMENT COUNCIL

The main objective of the College Development Council (CDC) is to develop collegiate education in the State of Meghalaya as well as in the North East region.

At present there are 54 colleges temporarily or permanently affiliated to NEHU.

1. Permanently affiliated college – 20
2. Temporarily affiliated college - 34

During the period under report the Director, CDC, along with staff visited the following colleges in the rural areas of Meghalaya with the objective of advising colleges to improve the quality of education:

1. College of Teacher Education, Rongkhong, Tura, Garo Hills
2. Tura Law College, Tura, West Garo Hills
3. Romsang College, Williamnagar, East Garo Hills
4. Williamnagar College, East Garo Hills
5. Tirot Sing Memorial College, Mairang, West Khasi Hills (twice)
6. Sohra College, Cherrapunjee, East Khasi Hills
7. Kazi & Zaman College, New-Bhaitbari, West Garo Hills (twice)
8. Khat-Ar Daloi Law College, Jowai, Jaintia Hills
9. Jaintia Eastern College, Khliehriat, Jaintia Hills
10. Tikrikilla College, West Garo Hills (twice)
11. Union Christian College, Ri Bhoi (twice)
12. Sngap Syiem Memorial College, Mawkyrwat, West Khasi Hills (twice)
13. Nongstoin College, Nongstoin, West Khasi Hills (twice)
14. Ri-Bhoi College, Nongpoh, Ri-Bhoi District (twice)
15. Kiang Nongbah College, Jowai, Jaintia Hills
16. Captain Williamson Memorial College, Baghmara, South Garo Hills
17. Acheng Rangmanpa College, Mahendraganj, South Garo Hills
18. Phukan Memorial College, Dalu, West Garo Hills
19. Don Bosco College, Tura, West Garo Hills
20. North East Adventist College, Thadlaskein, Jowai, Jaintia Hills
21. Don Bosco College of Teacher Education, Tura, Garo Hills
22. St. Mary's College, Laitumkhrah, Shillong
23. St. Anthony's College, Laitumkhrah, Shillong
24. Shillong Commerce College, Shillong
25. St. Dominic College, Shillong
26. St. Edmund's College, Laitumkhrah, Shillong
27. Budha Bhanu Saraswati College, Mawprem, Shillong

28. Umshyrpi College, Laban, Shillong
29. Raid Laban College, Laban, Shillong
30. Nongtalang College, Nongtalang, Jaintia Hills
31. Bormanik College, 3rd Mile, Upper Shillong-Kynton, Shillong
32. Synod College, Jaiaw, Shillong
33. Nabon Synod College, Jaiaw, Shillong
34. Thomas Jones Synod College, Jowai, Jaintia Hills

Publication:

Lyndem, Biloris & Utpal Kumar De. 2004. *Education in North East India: Experience & Challenges*. New Delhi: Concept Publishing House.

Other Activities:

Prof. Biloris Lyndem (1) attended a meeting of Advisory Board of the Department of Education in Social Science & Humanities-NCERT, New Delhi held on 28th January 2004. (2) Delivered a lecture on Faculty Improvement Programme held in College of Teacher Education, Shillong on 12th May 2004 as part of NAAC Programme. (3) Acted as an expert for National Council of Educational Research & Theory, North East Regional Institute of Education, Shillong, and All India Council for Innovative Practices and Experiments for the year 2003-2004. (4) Was a Resource Person for Sarva Shiksha Abhiyan Development Block on 3rd September 2004.

IX

Examination Department

During the year under review, further steps were taken to computerize the department. As a result of this computerization, the department was able to declare all the concerned results in time and were error free. The department was also able to help organize the 13th

convocation of the university held on 13th November 2003. Altogether, 1941 candidates received various degrees of the university.

The enrolment during the year under report is given under annexures "A" and "B" respectively.

Annexure "A"

ENROLMENT OF STUDENTS FOR THE ACADEMIC YEAR 2003-04

COURSES	Gen	Gen	OBC	OBC	SC	SC	ST	ST	Total	Total
	M	F	M	F	M	F	M	F	M	F
B.A.(Pass)										
First Year	253	226	19	14	36	27	2472	2264	2780	2531
Second Year	84	103	7	4	14	15	924	1023	1029	1145
Third Year	80	115	4	4	11	5	702	720	797	844
B.Sc.(Pass)										
First Year	9	4	3	0	12	6	161	101	185	111
Second Year	7	10	0	2	5	7	40	14	52	33
Third Year	7	7	0	1	8	1	39	13	54	22
B.Com(Pass)										
First Year	149	39	12	4	12	2	304	99	477	144
Second Year	62	14	1	0	6	15	143	59	212	88
Third Year	63	13	0	0	10	8	105	37	151	58

<u>COURSES</u>	Gen M	Gen F	OBC M	OBC F	SC M	SC F	ST M	ST F	Total M	Total F
B.A.(Honours)										
First Year	137	136	8	7	21	6	938	1149	1104	1298
Second Year	78	102	9	1	7	12	573	764	667	879
Third Year	60	95	1	1	10	9	356	508	427	613
B.Sc.(Honours)										
First Year	161	112	8	8	11	9	367	300	547	429
Second Year	89	48	3	1	5	2	166	114	263	165
Third Year	81	50	1	0	1	5	142	105	225	160
B.Sc Home Science (Honours)										
First Year	0	3	0	0	0	0	0	19	0	22
Second Year	0	0	0	0	0	0	0	10	0	10
Third Year	0	1	0	0	0	0	0	9	0	10
B.Com. (Honours)										
First Year	65	40	5	1	0	2	237	97	307	140
Second Year	57	34	0	0	4	0	170	55	231	89
Third Year	38	23	2	0	0	0	64	32	104	55
B.B.A. (Honours)										
First Year	8	5	0	0	0	0	13	13	21	18
Second Year	3	3	1	0	1	1	14	8	19	12
Third Year	3	5	1	0	0	0	13	9	17	14
B.C.A. (Honours)										
First Year	3	0	0	0	0	0	1	0	4	0
Second Year	4	1	2	1	1	0	2	1	9	3
Third Year	12	1	1	1	2	2	3	1	18	5
PGDCA										
First Year (St. Anthony's only)	5	7	0	0	0	0	4	4	9	11
B.Ed.										
First Year	20	62	4	4	2	3	69	162	95	231
LL.B.										
First Year	77	23	0	0	5	2	148	97	230	122
Second Year	26	15	0	0	5	2	120	63	151	80
Third Year	12	7	0	0	0	0	59	44	71	51

<u>COURSES</u>	Gen M	Gen F	OBC M	OBC F	SC M	SC F	ST M	ST F	Total M	Total F
M.A.										
Previous	14	50	1	5	1	5	183	303	199	363
Final	16	44	0	1	2	3	187	260	205	308
M.Sc.										
Previous	12	20	0	0	2	0	81	52	95	72
Final	27	13	0	0	6	0	58	52	91	65
M.Com.										
Previous	3	10	0	0	0	1	18	13	21	24
Final	6	3	0	0	0	0	20	10	26	13
M.Lib. info Sc.										
Previous	2	0	0	0	0	0	6	17	8	17
Final	1	2	0	0	0	0	8	14	9	16
M.Phil										
Newly Enrolled	4	6	0	0	0	1	14	4	18	11
Previously Enrolled	3	5	0	0	0	0	11	16	14	21
Ph.D.										
Newly Enrolled	31	14	0	1	0	0	39	47	70	62
Previously Enrolled	46	48	0	0	1	1	112	94	159	143
Diploma	0	0	0	2	0	0	24	37	24	39
Certificate	4	1	0	0	0	0	2	2	6	3

ENROLMENT OF STUDENTS DURING 2003-04 FROM DIFFERENT STATES OF INDIA

Under-Graduate (Non-Professional) Courses

States	Gen		OBC		SC		ST		TOTAL	
	M	F	M	F	M	F	M	F	M	F
Meghalaya	1154	1018	83	46	169	127	6618	6462	8024	7653
Manipur	82	26	0	0	0	0	479	280	561	306
Nagaland	36	10	0	0	0	0	332	408	368	418
Mizoram	44	22	0	0	0	0	274	229	318	251
Assam	30	40	0	2	2	1	72	57	104	100
Tripura	9	4	0	0	2	1	68	26	79	31
Arunachal Pradesh	10	4	0	0	0	0	60	28	70	32
Kerala	10	7	0	0	0	2	0	0	10	9
Bihar	7	3	0	0	0	0	0	0	7	3
Orissa	3	1	0	0	0	0	0	0	3	1
Jharkhand	2	0	0	0	0	0	0	1	2	1
Uttaranchal	0	2	0	0	0	0	0	0	0	2
Gujarat	0	2	0	0	0	0	0	0	0	2
Karnataka	0	0	0	0	0	0	0	1	0	1
Tamil Nadu	0	1	0	0	0	0	0	0	0	1
West Bengal	0	1	0	0	0	0	0	0	0	1
Bangladesh (Foreigners)	1	0	0	0	0	0	0	0	1	0
Bhutan (Foreigners)	65	34	0	0	0	0	0	0	65	34
Grand Total	1453	1175	83	48	173	131	7903	7492	9612	8846

Under-Graduate (Professional) Courses

States	Gen		OBC		SC		ST		Total	
	M	F	M	F	M	F	M	F	M	F
Meghalaya	150	112	9	6	16	8	411	397	616	523
Assam	17	2	0	0	0	0	1	1	18	3
Kerala	0	5	0	0	0	0	0	0	0	5
Jharkhand	0	0	0	0	0	2	0	0	0	2
Arunachal Pradesh	1	0	0	0	0	0	0	0	1	0
Punjab	0	1	0	0	0	0	0	0	0	1
Karnataka	0	1	0	0	0	0	0	0	0	1
Bangladesh (Foreigners)	0	1	0	0	0	0	0	0	0	1
Grand Total	168	122	9	6	16	10	442	398	635	536

MA/MSc/M.Com Courses

States	Gen	Gen	OBC	OBC	SC	SC	ST	ST	Total	Total
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
Meghalaya	54	108	0	2	7	7	408	619	469	736
Nagaland	3	0	0	0	0	0	45	44	48	44
Manipur	4	9	0	1	2	0	52	21	58	31
Mizoram	0	0	0	0	0	0	36	22	36	22
Assam	10	12	1	2	1	2	7	5	19	21
Arunachal Pradesh	0	1	0	0	0	0	5	6	5	7
Tripura	0	0	0	0	0	0	8	4	8	4
Uttar Pradesh	4	3	0	0	0	0	0	0	4	3
Bihar	3	2	0	1	0	0	0	0	3	3
Kerala	1	3	0	0	1	0	0	0	2	3
West Bengal	0	3	0	0	0	0	0	0	0	3
Orissa	0	1	0	0	0	0	0	0	0	1
Tamil Nadu	1	0	0	0	0	0	0	0	1	0
Bangladesh (Foreigners)	1	0	0	0	0	0	0	0	1	0
Grand Total	81	142	1	6	11	9	561	721	654	878

Diploma Courses

States	Gen	Gen	OBC	OBC	SC	SC	ST	ST	Total	Total
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
Meghalaya	0	0	0	1	0	0	24	34	24	35
Manipur	0	0	0	0	0	0	0	3	0	3
Assam	0	0	0	1	0	0	0	0	0	1
Grand Total	0	0	0	2	0	0	24	37	24	39

Certificate Courses

States	Gen	Gen	OBC	OBC	SC	SC	ST	ST	Total	Total
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
Meghalaya	1	0	0	0	0	0	2	1	3	1
Assam	3	1	0	0	0	0	0	1	3	2
Grand Total	4	1	0	0	0	0	2	2	6	3

X

Hindi Cell

To promote progressive use of Hindi in all the Central Government offices for official purposes and implement the Official Language Policy, the Official Language Act, 1963 was introduced by an Act of Parliament of the Government of India. To give effect to this the Hindi Cell was established in the university.

In-Charge:

Dr. J.N. Nayak (Deputy Registrar)

Scope:

At present the Hindi Cell is involved in Hindi translation of NEHU Website. The National Centre for Software Technology, Bangalore has been approached to do the Hindi translation of NEHU Website. This is one time translation of a snapshot of the NEHU Website on a turn key basis.

Committee:

For effective implementation of the Official Language Policy in this university an Official Language Implementation Committee has been constituted.

Presently, Professor Mrinal Miri, Vice-Chancellor, NEHU is its chairman. All senior officers like the Registrar, the Controller of Examinations, the Finance Officer, the Librarian, the Head, Department of Hindi and all Deputy Registrars of this university are members of this committee. Apart from this, In-charge, Kendriya Hindi Sansthan, Shillong Centre, Assistant Director, Hindi Teaching Scheme, Government of India, Shillong Centre are invitee members and the In-charge, Hindi Cell is the Member Secretary to this committee.

This committee meets quarterly to review the follow up action on the decision taken by the Official Language Implementation Committee and acts as an advisory body of the university for progressive use of Hindi.

Seminars/Conferences/Workshops:

Under the aegis of the cell a two-day Hindi workshop was organized on 17-18 March 2004. This workshop was meant for employees of this university having the working knowledge of Hindi. More than 30 employees from differ-

ent sections of the university were nominated as participants of this workshop.

Professor Mrinal Miri, Vice-Chancellor, was the chief guest at the inaugural function.

The following officers were Resource Persons:

1. Shri B.N. Prasad, Deputy Director, Ministry of Home Affairs, Department of Rajbhasha, Regional Implementation (NER) office, Guwahati.

2. Professor Ravi Prakash Gupta, In-Charge, Kendriya Hindi Sansthan, Shillong.

3. Professor Vivek Kumar Srivastava, Head Department of Hindi, NEHU, Shillong.

4. Professor Devendra Shukla, Kendriya Hindi Sansthan, Shillong.

5. Dr. Rustom Rai, Asstt. Director, Hindi Teaching Scheme, Shillong.

As proposed by the participants and with the success of the workshop the Official Language Implementation Committee, NEHU has recommended to the cell to organize such workshops frequently.

Other Activities:

Under the aegis of Rajbhasha Sansthan, New Delhi a seminar cum workshop on Official Language Management, Policy Implementation, Conducting Workshop, Information Technology & Computerization was held on 15-17 October 2003 at Dalhousie, Himachal Pradesh. Dr. J.N. Nayak, OIC, and Shri. A.K. Singh of the cell were nominated by the university to attend this.

Shri S.K. Karna and Shri S. Kumar of Hindi Cell were nominated by the Vice-Chancellor, NEHU to attend the special workshop on Filling Up of the Questionnaire prescribed for the visit of the Hon'ble Committee of Parliament on Official Language. This workshop was held under the aegis of the National Institute of Public Administration, Bangalore at New Delhi on 14-15 November 2003.

Dr. J.N. Nayak, Deputy Registrar & In-charge of the cell, attended the Joint Regional Official Language Conference held on 24-25 March 2004 in Kolkata.

XII

Students' Services and Amenities

DEAN OF STUDENTS' WELFARE

The office of the Dean of Students' Welfare continued to serve as the nodal agency for students' services and their welfare. Major concerns of the office have been the management of the Halls of Residences of the post-graduate students and research scholars, academic study tours, coordination of students' sports and cultural activities, conduct of elections to the Students' Union and the installation of the new Union Executive Committee, award of the post-graduate scholarships and grant of Students' Aid to economically weak students.

Dean of Students' Welfare:

Professor D.K. Nayak

Residence in Hostels:

In the Shillong campus following post-graduate students and research scholars were given hostel

accommodation:

	SC/ST	Genl	Total
Men			
(P.G. & R.S):	190	14	204
Women			
(P.G. & R.S):	170	6	176

Study Tours/Field Trips:

The office also coordinated the study tours of the following 12 academic departments:

(1) Zoology (2) Linguistics (3) Political Science (4) Botany (5) Bio-chemistry (6) Khasi (7) Chemistry (8) Hindi (9) Sociology (10) Economics (11) Physics (12) Education.

Sports Activities:

The following sports activities were conducted during the year:

1. The post-graduate students participated in the NEHU Inter-College Basketball & Cricket Tournament held in Shillong held in September 2003.

XI

Scheduled Castes/ Scheduled Tribes

During the year 2003-04, the Scheduled Castes and Scheduled Tribes Cell was fully engaged with work related to the implementation of the reservation policies for Scheduled Castes, Scheduled Tribes, Physically Handicapped and Other Backward Classes in appointment/promotion to the teaching and non-teaching posts and also for admission of students to various post-graduate programmes and hostel accommodation in this university.

The university deputed Smt. L.D. Nalle, Asstt. Registrar (SC/ST), to

attend the special workshop on "Reservation Policy for Liaison Officers for Scheduled Castes/Scheduled Tribes and Other Backward Classes", organized in Bangalore on 4-6 March 2004 by the National Institute of Public Administration, Bangalore.

It may further be mentioned that reservation policies implemented in this university are as per the guidelines issued by the MHRD/GOI from time to time. The cumulative position for SC/ST teaching and non-teaching staff in NEHU as on 31.3.04 is provided in Tables I & II.

Table I. Cumulative Position of SC and ST Teaching Staff as on 31.3.04

Position	SC	ST	Total	Total Strength of the Position
Professor	-	23	23	84
Reader	-	22	22	113
Lecturer	2	38	40	148
Total	2	83	85	345

Table II. Cumulative Position of SC and ST Non-Teaching Staff as on 31.3.04

Position	SC	ST	Total	Total Strength of the Position
Group A	-	25	25	61
Group B	1	62	63	167
Group C	2	231	233	484
Group D	1	259	260	350
Total	4	577	581	1062

Other Activities:

1. The DSW office supported the activities of the Zonic Society of the Zoology Department NEHU, Shillong, which organized its activities during October 2003 and published their annual magazine.

2. The call-centre network was organized on awareness cum-recruitment drive among the students of NEHU in the Science Auditorium on August 9, 2004 to explain the growing importance of call centres, which provide employment opportunities to the students to work in metropolitan centres.

3. Officers from Indian Air Force, Shillong organized an awareness-cum-recruitment drive for the students of

NEHU in the science auditorium held in September 26, 2003 and explained the employment opportunities available in Indian Air Force. The campaign was preceded by a film show on Indian Air Force and its role in nation building.

4. Two student representatives participated in the symposium organized by the International Society for Harmony and Peace held in Mumbai on January 9-11, 2004.

Scholarships/Aid Fund:

During the year 2003-04, 97 NEHU post-graduate students were awarded PG Merit Scholarships including ST/SC students and 67 students were awarded funds from the Students' Aid Fund.

GAMES AND SPORTS

Teacher In-Charge:

Professor B. Kharbuli

The tournaments conducted by the department during the year are as follows:

A. ONE-ZONE TOURNAMENT:

1. Football (Women): The tournament was conducted at Polo Ground, Shillong from 26-30 August 2003. All together 4 teams took part in the tournament. The tournament was

conducted on a league basis in order to popularize and to add glamour to the event. The principals of Lady Keane and Sankardev College presented the prizes.

Winners : Synod College

Runners Up : Lady Keane College.

2. Cricket (Men): This tournament was conducted at Polo Cricket Ground from 3 to 8 November 2003. In all 10 colleges participated. The chief guest for the closing ceremony was Professor

Mrinal Miri, Vice-Chancellor, NEHU, who also presented the prizes to the Winners and Runners Up along with cash prizes for the Man of the Series and Man of the Match of the tournament.

Winners : BBS College

Runners Up : Tura Govt. College.

The Man of the Series was awarded to Mr. C.H. Sangma of Tura Government College, Tura and the Man of the Match was awarded to Mr. Bablu Passah of Buddha Bhanu Saraswati College, Shillong.

3. Volleyball (Men and Women):

This tournament was conducted at Bijni Complex from 15 to 18 October 2003. Altogether 8 teams took part in the Men's Section and 4 teams in the Women's Section. The prizes were presented by Professor D.T. Khathing, Registrar, NEHU.

Men

Winners : St. Anthony's College

Runners Up : Sankardev College

Women

Winners : Lady keane College

Runners Up : St. Edmund's College

B. ZONAL AND INTER ZONAL TOURNAMENTS

1. Basketball (Men & Women):

The Zonal Tournament was conducted at the J.N. Complex Basketball Court, Shillong from 2 to 6 September 2003.

It was inaugurated by Mr. R.G. Lyngdoh, Hon'ble Home Minister, Government of Meghalaya, who was also the chief guest. The teams that qualify for the Inter Zonals from Shillong zone were St. Anthony's College and St. Edmund's College in the Men's category and St. Anthony's and Lady Keane College in the Women's category.

The Zonal Tournament (Tura zone) and the Inter Zonal were conducted at the Don Bosco College Complex, Tura, from 15 to 18 September 2003 and the teams that qualified for the Inter Zonals from Tura Campus were Don Bosco College and Tura Government College in the Men's Section and Tura Government College and Don Bosco College in the Women's Section.

The Pro-Vice-Chancellor of Tura Campus, Prof. S.S. Khare, gave away the prizes to the Winners and the Principal of Don Bosco College presented the prizes to the Runners Up.

Men's Section

Winners : St. Anthony's College, Shillong.

Runners Up : St. Edmund's College, Shillong.

Women's Section

Winners : St. Anthony's College, Shillong.

Runners Up : Lady Keane College, Shillong.

Shri H Laldinsanga of St. Anthony's College was adjudged the

Best Player in the Men category and Miss Yolinda Hynniewta of Lady Keane College was adjudged the Best Player in the Women's category.

2. Football (Men): As decided by the Sports Board this event was scheduled to be conducted on Zonal basis but due to insufficient entries in the Tura Campus the tournament was decided to be conducted on One Zone basis. In all 15 colleges took part in the tournament. The prizes were distributed by Professor B. Kharbuli, Teacher In-Charge, Sports Department and Shri P. Blah, Assistant Director of Sports.

Winners : Shillong College
Runners Up : Sankardev College

3. Badminton (Men & Women): This tournament was held from 6 to 8 August 2003 at the Tirof Sing Indoor Stadium, Shillong. It was conducted on One Zone basis since Tura Campus could not conduct its Zonal tournaments due to lack of facilities for the discipline. In all 13 colleges took part in the Men's Section and 8 in the Women's Section. Mr. R.G. Lyngdoh, Hon'ble Minister, Government of Meghalaya was the chief guest on the occasion and also presented the prizes to the Winners and Runners Up of the tournament.

Men's Section

Winners : St. Anthony's College
Runners Up : St. Edmund's College

Women's Section

Winners : St. Anthony's College

Runners Up : Synod College

4. Table Tennis (Men & Women): The tournament was conducted from 6 to 8 August 2003 at the Tirof Sing Indoor Stadium, Shillong on One Zone basis as Tura Zone was unable to conduct its Zonal tournament. In all 8 colleges in the Men's category and 4 colleges in the Women's category took part in this event. Shri R.G. Lyngdoh was the chief guest on the occasion and presented the prizes to the Winners and Runners Up team.

Men's Section

Winners : Shillong College
Runners Up : St. Edmund's College

Women's Section

Winners : St. Anthony's College
Runners Up : St. Mary's College

5. A preliminary Coaching Camp-cum-Selection Trial in Football (Men) was conducted at Polo Ground from 1 to 28 November 2003 in order to prepare the university team for participation in the inter-university tournaments for 2004. Altogether 38 boys attended the camp from different colleges including out station colleges.

However, efforts were also made to send the university badminton (men) team to Ranchi University for inter-university tournament, but due to the prevailing situation in Bihar then the department felt that it was not safe to send the team.

NATIONAL SERVICE SCHEME

The National Service Scheme (NSS) of the Government of India envisages utilizing the free time of college/university students for socially productive works. An important feature of the NSS is that the students themselves organize its programmes under the guidance of their teachers as Programme Officers. The work undertaken by the college units are divided into Regular Activities and Special Camping. NSS activities have during the year increased further as evident from the variety of programmes undertaken. The NSS Cell has initiated innovative programmes to increase community outreach and create a lasting impact on society.

Programme Coordinator:

Professor R.N. Sharan

National Integration Camp:

18 student volunteers from the NSS units of Mendipathar, Women's, Kiang Nangbah & Sohra colleges attended the Youth Festival cum National Integration Camp at Patnitop, Udhampur District, Jammu on 22-28 September 2003. The camp was organized by the Patnitop Development Authority, Department of Youth Affairs & Sports, Government of Jammu & Kashmir and attended by

300 participants from 16 universities across the country. The NEHU contingent, which was led by Mr. A. K. Choudhury, NSS PO, Sohra College and Ms. Unimary Kharkongor, Office Assistant, NSS Cell, NEHU, bagged the trophy for best cultural troupe.

10 student volunteers from Edmund's, Ri Bhoi and Sohra Colleges participated at the NIC held from 28th September to 4th October 2003 at Elambalur, Tamil Nadu. The NEHU contingent was accompanied by Mr. E.C. Benny, NSS Programme Officer, Ri-Bhoi College.

Pre-Republic Day Parade Camp:

Eight volunteers from Synod and Tikrikilla colleges attended the Pre-Republic Day Parade Camp, which was held from 7 to 16 November 2003 at Guwahati.

Ms. A.R. Marak of Tikrikilla College and Mr. R. Pyngrope of Synod College attended the Republic Day Camp at New Delhi from 1 to 31 January 2004.

Special Camps:

(a) The units of Mendipathar College organized a special camp at Chipakram village from 12 to 18 November 2003 in which 77 (29 women and 48 men) volunteers participated.

(b) The NSS unit of Shillong

Commerce College also organized a Blood Donation Camp. 17 volunteers donated blood to the Regional Blood Bank, Pasteur Institute, Shillong on 6th September 2003.

(c) The NSS unit of Shillong College organized a Blood Donation Camp on September 19, 2003 in which 18 volunteers donated blood to the Regional Blood Bank, Pasteur Institute, Shillong.

(d) Professor R.N. Sharan also donated blood to the Regional Blood Bank, Pasteur Institute, Shillong on 1st October 2003 in observance of Voluntary Blood Donation Day.

UTA Project:

The Information and Counseling Centre sponsored by the Ministry of Youth Affairs & Sports, New Delhi was established at NSS Cell, NEHU in July 2002 for a trial period of one year. A qualified counselor was appointed with whose help a booklet on HIV/AIDS information which contains relevant information for our target group - college going youth - has been prepared.

NSS Day Celebrations:

(a) The NSS unit of Union Christian College organized a visit to Ferrando Speech & Hearing Centre, Umniuh, Ri Bhoi District on 24-25 September 2003. 40 NSS volunteers actively participated in cleaning the

centre premises and interacting with the children.

(b) The NSS unit of Tura Government College in collaboration with the Rotary Club of Tura, organized a town cleaning operation under the project "Cleaner Tura" on 27th September 2003 as part of NSS Day celebration.

(c) The units of Tikrikilla College conducted a cleaning drive at Tikrikilla Bazar and also a tree plantation programme in the unit's adopted village on 24th September 2003.

(d) The PG Unit, Tura organized a programme on the campus, which was attended by Professor S.S. Khare, P.V.C. Tura Campus, besides a large number of NSS volunteers.

Other Activities:

(a) The unit of Mendipathar College organized a public rally and general meeting to observe World Health Day on 7th April 2003. The programme, which was organized in collaboration with Medical Mission Centre, Mendipathar, was attended by school students and members of Mahila Samitis besides NSS volunteers.

(b) Various units organized programmes in observance of the World Environment Day on 5th June 2003 by organizing cleaning drives, tree plantations and campus beautification programmes.

(c) The unit of Sankardev College organized a health camp at Kendriya Vidyalaya School, NEHU, Umshing on 2nd September 2003. More than 300 children of the school availed of check-up and referral services provided by the team of doctors from the District Medical & Health Office.

(d) The NSS Cell organized another similar camp at the school on 4-5 March 2004. About 200 students availed of the services.

(e) Various units also organized appropriate programmes in observance of the World AIDS Day on 1st December 2003.

(f) NSS units of UCC, PG-Tura

and Shillong Commerce College organized one day visits to their respective adopted villages for surveys and follow-up programmes.

(g) Programme Officers of St. Mary's College along with two volunteers attended the youth hearing on 27th October 2003 at Don Bosco Youth Centre, Shillong organized by the National Commission for Youth.

(h) Professor R.N. Sharan, Programme Coordinator, NSS Cell, NEHU attended the national workshop on "NSS and Implementation Strategy" at the Rajiv Gandhi National Institute for Youth Development, Sriperumbudur, Tamilnadu on 1-3 November 2003.

XIII

Appendices

MEMBERS OF THE COURT

Chancellor, Ex-Officio Prof. Andre Beteille, Chancellor, 69, Jorbagh, Ground Floor, New Delhi – 110003	Dean, School of Social Sciences Dean, School of Economics, Management and Information Sciences Dean, School of Human and Environmental Sciences
Vice-Chancellor, Ex-Officio Prof. M. Miri, NEHU, Shillong.	All Professors, Ex-Officio
Pro-Vice-Chancellor, Ex-Officio Prof. S.S. Khare, P.V.C, NEHU, Tura Campus, Tura	Department of Anthropology 1. Prof. T.B. Subba 2. Prof. H. Lamin 3. Prof. J. Brouwer-Visiting Professor
Dean, Students' Welfare, Ex-Officio Professor D. K. Nayak	Department of Biochemistry 1. Prof. R. Lalthantluanga 2. Prof. A.N. Rai 3. Prof. R. Sharma 4. Prof. R.N. Sharan 5. Prof. V. Singh (temp. attach.)
Registrar, Ex-Officio Professor D. T. Khathing	Department of Botany 1. Prof. R.S. Tripathi 2. Prof. P. Tandon 3. Prof. H.N. Pandey 4. Prof. A.K. Mishra 5. Prof. N.K. Chrungroo
Librarian, Ex-Officio Mrs. I. Majaw	
Proctor, Ex-Officio Proctor, NEHU, Shillong.	
Finance Officer, Ex-Officio Sri J. Lhungdim, IDAS	
Deans of School, Ex-Officio Dean, School of Humanities & Education Dean, School of Life Sciences Dean, School of Physical Sciences	Department of Chemistry 1. Prof. M.K. Mahanti 2. Prof. K. Ismail 3. Prof. R.K. Poddar

4. Prof. B. Myrboh
5. Prof. R.H.D. Lyngdoh
6. Prof. R.A. Lal

Department of Economics

1. Prof. S.K. Mishra
2. Prof. E.D. Thomas
3. Prof. N. Srivastav

Department of Education

1. Prof. (Mrs) K.S. Lyngdoh
2. Prof. R. Bhattacharjee
3. Prof. (Mrs) A. Henia
4. Prof. P.K. Gupta

Department of Education, Tura Campus

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Department of English

1. Prof. N. Hasan
2. Prof. R.P. Sharma
3. Prof. (Mrs) T. Ao

Department of English, Tura Campus

1. Prof. S. Ganguly

Department of Garo

1. Prof. C.R. Marak

Department of Geography

1. Prof. A.C. Mohapatra
2. Prof. R. Gopalakrishnan
3. Prof. S. Singh
4. Prof. B. S. Mipun
5. Prof. D. K. Nayak

Department of Hindi

1. Prof. V.K. Srivastava

Department of History

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2. Prof. Imdad Hussain
3. Prof. D.R. Syiemlieh
4. Prof. (Mrs) M. Momin

5. Prof.(Mrs) M. Sharma
6. Prof. F.A. Qadri

Department of Khasi

1. Prof. (Ms) B. War

Department of Linguistics

1. Prof. (Miss) J. War

Department of Mathematics

1. Prof. M.B. Rege
2. Prof. S.K. Srivastava
3. Prof. H.K. Mukherjee

Department of Philosophy

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2. Prof. C.R. Agera
3. Prof. J. Pal
4. Prof. B.K. Agarwala

Department of Political Science

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2. Prof. A.K. Baruah
1. Prof. (Mrs) R. Borgohain
2. Prof. L.S. Gassah
3. Prof. B.J. Deb

Department of Physics

1. Prof. P. Shukla
2. Prof. K. Kumar
3. Prof. P.N. Pandita
4. Prof. Y.S. Jain
5. Prof. M.K. Parida
6. Prof. (Mrs) B. Jyrwa
7. Prof. (Ms) P. Nongkynrih
8. Prof. S. Kumar (temp. attach.)

Department of Sociology

1. Prof. M.N. Karna
2. Prof. A.C. Sinha
3. Prof. C. Nunthara
4. Prof. P.M. Chacko
5. Prof. N. Kumar
6. Prof. C.L. Imchen

7. Prof. T. Nongbri

Department of Zoology

1. Prof. K. Chatterjee
2. Prof. A.R. Verma
3. Prof. (Mrs) V. Tandon
4. Prof. B.K. Sharma
5. Prof. B.B.P. Gupta
6. Prof. S.B. Prasad
7. Prof. N. Saha
8. Prof. B. Kharbuli
9. Prof. (Mrs) R.N.K. Horoo
10. Prof. (Mrs) D. Roy (temp. attach.)

Department of Library & Information Science

1. Prof. A.S. Chandel

Head, Department of Commerce, Shillong.

Head, Department of Rural Development and Agricultural Production, Tura.

Centre for Supportive Learning Systems

1. Prof. M.M. Singh
2. Prof. B. Lyndem Laso

University Scientific Instruments Centre

1. Prof. (Ms) P.V. Koparkar

Sophisticated Analytical Instrumentation Facility

1. Prof. R.P. Bajpai (temp. attach.)

Centre for Cultural and Creative Studies

1. Prof. (Mrs) H. Giri

Centre for Environmental Studies

1. Prof. B.K. Tiwari

Two Readers who are not Head of Department and two Lecturers by rotation
Readers:

1. Dr. P.K. Saikia, Department

of Mathematics, Shillong.

2. Dr. Ali Ahmed, Department of Geography.

Lecturers:

1. Shri. P.G. Momin, Department of Geography, Shillong
2. Dr. S. Aravamudhan, Department of Chemistry, Shillong.

Seven Principals of Colleges from the State of Meghalaya.

1. Principal, Shillong Law College, Shillong.
2. Principal, Khatar Daloi Law College, Jaintia Hills.
3. Principal, Greater Mawlai College, Mawlai, Shillong.
4. Principal, Morning Star College, Nongthymmai, Shillong.
5. Principal, Umshyrpi College, Shillong.
6. Principal, Bissau College, Shillong.
7. Principal, Thomas Joanes College, Jowai.

Three teachers from affiliated colleges of the State of Meghalaya.

1. Shri. K.R. Marak, Lecturer, Mendipathar College, Mendipathar.
2. Dr. A.A. Sinha, Lecturer, St. Anthony's College, Shillong.
3. Shri Ajoy Kumar Adhikary, Lecturer, Nongtalang College, Nongtalang.

Members of the Executive Council who are otherwise not members of the Court.

1. Director of Higher & Technical Education, Govt. of Meghalaya, Shillong.
2. Principal, Synod College, Shillong.
3. Prof. Gajendra Nath Talukdar, Vice-Chancellor, Gauhati University, Gopinath Bardoloi Nagar, Guwahati – 781014.

4. Dr. Y.S. Rajan, Vice-Chancellor, Panjab Technical University, Regional Engineering College Campus, Jalandhar – 144071.
5. Dr. Gummadi Nancharaiah, Vice-Chancellor, Babasaheb Bhimrao Ambedkar University, Vicya Vihar, Rae Bareli Road, Lucknow-226025.
6. Prof. R. Natarajan, Chairman, All India Council for Technical Education (AICTE), Indira Gandhi Sports Complex, I.P. Estate, New Delhi – 110002.

Rajya Sabha:

1. Shri Indramoni Bora, Phatik Ch. Road, Uzan Bazar, Guwahati – 781001
&
63, North Avenue, New Delhi – 110001.
2. Shri Rishang Keishing, Mantri Pukhri, Imphal, Manipur.
&
12, Talkatora Road, New Delhi – 110001.

Four students to be nominated by the Vice-Chancellor.

1. Mr. Daniel Nongbri, Department of Biochemistry, NEHU, Shillong.
2. Mr. Joseph Langstieh, Department of Political Science, NEHU, Shillong.
3. Miss Semina Ch. Marak, Department of Garo, NEHU, Tura Campus, Tura.

4. Mr. Emilius Nongbri, Department of Economics, NEHU, Shillong.

Two persons nominated by the Chancellor.

1. Prof. Virginius Xaxa, Department of Sociology, Delhi University, Delhi.
2. Prof. A.C. Bhagabati, Department of Anthropology, Gauhati University, Guwahati 781014.

Not more than two persons to be nominated by the Chief Rector.

1. Shri W.R. Laitphlang, (IAS Rtd. Ex-Director of Public Instruction), Rngi Jynriew, Upper Nongthymmai, Shillong-793014.

Two members of Non-Teaching Staff nominated by the Vice-Chancellor.

1. President, Non-Teaching Staff Association, NEHU, Shillong.
2. General Secretary, Non-Teaching Staff Association, NEHU, Shillong.

Two representatives from the state of Meghalaya nominated by State Govt.

1. Director of Higher & Technical Education, Department of Education, Meghalaya, Shillong.
2. Smt. R. D. Marak, Director of Elementary & Mass Education, Department of Education, Govt. of Meghalaya, Shillong.

MEMBERS OF THE EXECUTIVE COUNCIL

<p>Professor Mrinal Miri, Vice-Chancellor, NEHU, Shillong.</p> <p>Professor S.S. Khare, Pro-Vice-Chancellor, NEHU, Tura.</p> <p>Professor P. Shukla, Dean, School of Physical Sciences, NEHU, Shillong.</p> <p>Professor (Mrs) S. Miri, Dean, School of Humanities and Education, NEHU, Shillong.</p> <p>Professor A.K. Baruah, Dean, School of Social Sciences, NEHU, Shillong.</p> <p>Professor R. Lalthantluanga, Dean, School of Life Sciences, NEHU, Shillong.</p> <p>Professor M.N. Karna, Department of Sociology, NEHU, Shillong.</p> <p>Dr. P.K. Saikia, Department of Mathematics, NEHU, Shillong.</p> <p>Principal, Synod College, Jaiaw, Shillong.</p> <p>Director, Higher & Technical Education, Government of Meghalaya, Shillong.</p>	<p>Dr. Gummadi Nancharaiah, Vice-Chancellor, Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Rae Bareli Road, Lucknow – 226 025.</p> <p>Professor R. Natarajan, Chairman, All India Council for Technical Education (AICTE), Indira Gandhi Sports Complex, I.P. Estate, New Delhi – 110 002.</p> <p>Shri J. Lhungdim (Permanent Invitee), Finance Officer, NEHU, Shillong.</p> <p>Professor Gajendra Nath Talukdar, Vice-Chancellor, Gauhati University, Gopinath Bardoloi Nagar, Guwahati – 781 014.</p> <p>Dr. Y.S. Rajan, Vice-Chancellor, Punjab Technical University, Regional Engineering College Campus, Jalandhar – 144 071.</p> <p>Professor D. T. Khathing, Registrar, NEHU, Shillong.</p>
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MEMBERS OF THE ACADEMIC COUNCIL

<p>Vice-Chancellor (Ex-Officio) Prof. M. Miri Vice-Chancellor, NEHU, Shillong.</p>	<p>Information Sciences, NEHU, Shillong.</p>
<p>Pro-Vice-Chancellor (Ex-Officio) Prof. S.S. Khare P.V.C., NEHU, Tura Campus, Tura.</p>	<p>6. Head, Department of Biochemistry, NEHU, Shillong.</p>
<p>Deans of Schools (Ex-Officio)</p> <ol style="list-style-type: none"> 1. Dean, School of Life Sciences, NEHU, Shillong. 2. Dean, School of Humanities and Education, 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, NEHU, Shillong. 6. Dean, School of Human and Environmental Sciences, NEHU, Shillong. 7. Dean, Students' Welfare (Ex-Officio) Dean, Students' Welfare, NEHU, Shillong. 	<p>7. Head, Department of Botany, NEHU, Shillong.</p> <p>8. Head, Department of Zoology, NEHU, Shillong.</p> <p>9. Head, Department of Anthropology, NEHU, Shillong</p> <p>10) Head, Department of Geography, NEHU, Shillong.</p> <p>11) Head, Department of Chemistry, NEHU, Shillong.</p> <p>12) Head, Department of Mathematics, NEHU, Shillong.</p> <p>13) Head, Department of Physics, NEHU, Shillong.</p> <p>14) Head, Department of English, NEHU, Shillong.</p> <p>15) Head, Department of Khasi, NEHU, Shillong.</p> <p>16) Head, Department of Linguistics, NEHU, Shillong.</p> <p>17) Head, Department of Philosophy, NEHU, Shillong.</p>
<p>Heads of Departments & Centres of Studies</p> <ol style="list-style-type: none"> 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 	<p>18) Head, Department of Education, NEHU, Shillong.</p> <p>19) Head, Department of Hindi, NEHU, Shillong.</p> <p>20) Head, Centre for Environmental Studies, NEHU, Shillong.</p> <p>21) Head, Centre for Applied Statistics, NEHU, Shillong.</p> <p>22) Head, Centre for Cultural and Creative Studies, NEHU, Shillong.</p> <p>23) Head, Computer Centre, NEHU, Shillong.</p>

- 24) Head, Centre for Supportive Learning Systems, NEHU, Shillong.
- 25) Head, Department of RSIC, NEHU, Shillong.
- 26) Head, Department of Commerce, NEHU, Shillong.
- 27) Head, Department of USIC, 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.

Librarian (Ex-Officio)
Librarian, NEHU, Shillong.

Department of Anthropology

1. Prof. T.B. Subba
2. Prof. Henry Lamin
3. Prof. J. Brouwer (Visiting Prof.)

Department of Biochemistry

1. Prof. R. Lalthantluanga
2. Prof. A.N. Rai
3. Prof. Ramesh Sharma
4. Prof. R.N. Sharan
5. Prof. V. Singh (temp. attach.)

Department of Botany

1. Prof. R.S. Tripathi
2. Prof. P. Tandon
3. Prof. H.N. Pandey
4. Prof. A.K. Mishra
5. Prof. N.K. Chrungho

Department of Chemistry

1. Prof. M.K. Mahanti
2. Prof. K. Ismail
3. Prof. R.K. Poddar
4. Prof. R.H.D. Lyngdoh
5. Prof. B. Myrboh
6. Prof. R.A. Lai

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1. Prof. S.K. Mishra
2. Prof. E.D. Thomas
3. Prof. N. Srivastav

Department of Education

1. Prof. (Mrs.) K.S. Lyngdoh
2. Prof. (Ms) A. Henia
3. Prof. P.K. Gupta

Department of English

1. Prof. N. Hasan
2. Prof. R.P. Sharma
3. Prof. (Mrs) T. Ao

Department of English, NEHU, Tura.

1. Prof. S. Ganguly

Department of Garo, Tura

1. Prof. C.R. Marak

Department of Geography

1. Prof. A.C. Mohapatra
2. Prof. R. Gopalakrishnan
3. Prof. Surendra Singh
4. Prof. B.S. Mipun
5. Prof. D.K. Nayak

Department of History.

1. Prof. J.B. Bhattacharjee
2. Prof. Imdad Hussain
3. Prof. D.R. Syiemlieh
4. Prof. (Mrs) M. Momin
5. Prof. (Mrs) M. Sharma
6. F.A. Qadri

<p>Department of Hindi</p> <ol style="list-style-type: none"> 1. Prof. V.K. Srivastava 	<ol style="list-style-type: none"> 3. Prof. N. Kumar 4. Prof. C.L. Imchen 5. Prof. T. Nongbri
<p>Department of Khasi.</p> <ol style="list-style-type: none"> 1. Prof. (Ms) B. War 	<p>Department of Zoology</p> <ol style="list-style-type: none"> 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. K̄ arbuli 7. Prof. (Mrs) R.N.K. Hoaroo 8. Prof. Debjani Roy (temp. attach.)
<p>Department of Linguistics</p> <ol style="list-style-type: none"> 1. Prof. (Miss) J. War 	<p>Centre for Supportive Learning Systems</p> <ol style="list-style-type: none"> 1. Prof. M.C. Pandey 2. Prof. M.M. Singh 3. Prof. B.Lyndem Laso
<p>Department of Library & Information Science</p> <ol style="list-style-type: none"> 1. Prof. A.S. Chandel 	<p>Centre for Environmental Studies</p> <ol style="list-style-type: none"> 1 Prof. B.K. Tiwari
<p>Department of Mathematics</p> <ol style="list-style-type: none"> 1. Prof. M.B. Rege 2. Prof. S.K. Srivastava 3. Prof. H.K. Mukherjee 	<p>S. A. I. F.</p> <ol style="list-style-type: none"> 1. Prof. R.P. Bajpai
<p>Department of Philosophy</p> <ol style="list-style-type: none"> 1. Prof. C.R. Agera 2. Prof. Jagat Pal 3. Prof. B.K. Agarwala 	<p>U.S.I.C.</p> <ol style="list-style-type: none"> 1. Prof (Mrs) P.V. Koparkar
<p>Department of Physics</p> <ol style="list-style-type: none"> 1. Prof. P. Shukla 2. Prof. K. Kumar 3. Prof. P.N. Pandita 4. Prof. M.K. Parida 5. Prof. Y.S. Jain 6. Prof. D.T. Khathing 7. Prof. B.M. Jyrwa 8. Prof. (Ms.) P. Nongkynrih 9. Prof. S. Kumar (temp. attach.) 	<p>Centre for Cultural and Creative Studies.</p> <ol style="list-style-type: none"> 1. Prof. (Mrs) H. Giri
<p>Department of Political Science</p> <ol style="list-style-type: none"> 1. Prof. R.L. Walli 2. Prof. A.K. Baruah 3. Prof. (Mrs) Rupa Borgohain 4. Prof. L.S. Gassah 5. Prof. B.J. Deb 	<p>Principals of colleges</p> <ol style="list-style-type: none"> 1. Shri L. Momin, Principal, Tura Law College, Tura, West Garo Hills. 2. Shri B. Laitphlang, Principal, Nongstoin College, Nongstoin, West Khasi Hills. 3. Fr. V.A. Cyriac, Principal, Don Bosco College, Tura, West Garo Hills 4. Shri. S. Nongbri, Principal, Raid Laban College, Shillong. 5. Shri N.B. Gaire, Principal, Tikrikilla College, Tura.
<p>Department of Sociology</p> <ol style="list-style-type: none"> 1. Prof. C. Nunthara 2. Prof. P.M. Chacko 	

<p>6. Ms. C.W. Momin, Principal, College Teacher Education, Tura.</p> <p>Five teachers of the University</p> <ol style="list-style-type: none"> 1. Dr. R.C. Laloo, Reader, Department of Botany, NEHU, Shillong. 2. Dr. R. Sachdeva, Reader, Department of Linguistics, NEHU, Shillong. 3. Shri S.L. Marbaniang, Department of Mathematics, NEHU, Shillong. 4. Shri B.K. Gupta, Lecturer, Centre for Applied Statistics, NEHU, Shillong. 5. Shri R.S. Thakur, Department of English, NEHU, Tura Campus, Tura. <p>Four persons, not being employees of the University.</p> <ol style="list-style-type: none"> 1. Prof. Arvind Kumar Sharma, Vice-Chancellor, Mizoram University. 2. Prof. Rupa Shah, Vice-Chancellor, SNDT Women's University, Mumbai. 3. Prof. K.B. Sinha, Director, Indian Statistical Institute, 203 BT Road Kolkata-700108. 4. Dr. M.R. Rao, Professor & Former Director, Indian Institute of Management, Bannerghatta Road, Bangalore-560076. <p>Six teachers of the colleges admitted to the Privileges of the University.</p> <ol style="list-style-type: none"> 1. Dr. B.K. Thakur, Mendipathar College, Mendipathar. 2. Dr. W.R. Kharlukhi, Synod College, 	<p>Shillong.</p> <ol style="list-style-type: none"> 3. Shri A. Choudhury, St. Edmund's College, Shillong. 4. Dr.(Ms) S. Das Talukdar, Women College, Shillong. 5. Shri R. Pyngrope, L.K.G.C., Shillong. 6. Shri H. Synrem, St. Anthony's College, Shillong. <p>Two Post-Graduate Students of the University (one from Science and one from Humanities and one Research Scholar).</p> <ol style="list-style-type: none"> 1. Ms. Iwadala Passah, Department of Economics, NEHU, Shillong. 2. Mr. Panna Das, Department of Botany, NEHU, Shillong. 3. Ms. C. Bhattacharjee, Department of Biochemistry, NEHU, Shillong. <p>Permanent Invitee(s)</p> <ol style="list-style-type: none"> 1. Director, College Development Council, NEHU, Shillong. 2. Controller of Examinations, NEHU, Shillong. <p>Secretary (Ex-Officio) Registrar, NEHU, Shillong.</p>
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OFFICERS OF THE UNIVERSITY

Registrar

Professor D. T. Khathing

Controller of Examinations

Dr. A. Patton

Finance Officer

Sri. L. Lungdim

Librarian

Smt. I. Majaw

Executive Engineer

Sri. N. P. Garg

Dean, Students' Welfare

Prof. D. K. Nayak

Director, College Development Council

Prof. B. Lyndem Laso

Director, Computer Centre

Dr. S. N. Rai

Head, SAIF

Prof. B. Myrboh

Teacher-in-charge, Sports

Prof. B. Kharbuli

Coordinator, N.S.S.

Prof. R. N. Sharan

Grievance Officer

Prof. Surendra Singh

Audit Officer

Sri. B. K. Sen

Proctor (Campus)

Professor S. B. Prasad

Vigilance Officer

Sri. J. M. S. Khongwir

Deputy Director, Publications

Sri. K.S.Nongkynrih

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Mrs. R. Mishra

Dr. A. K. Kundu

Sr. Medical Officers:

Dr. V.S.V. Prasad

Dr. (Smt.) M. Synrem

Dr. I. Hussain

Dr. (Smt.) M. Marwein

Sr. Scientific Officer

Dr. T. Chakraborty

Deputy Registrars:

Dr. R.K. Tiwari (on deputation)

Smt. B. Bareh

Sri. K. M. Deb

Sri. J. M. S. Khongwir

Sri. L. M. K. Lyngrah

Dr. J. N. Nayak

Sri. C. D. Rynjah

Sri. L. Marbaniang

Sr. System Analysts
Sri. P.P.Dey

Assistant Registrars:
Sri. N. Purkayastha
Smt. N. D. Nalle
Smt. E. M. Lyngdoh
Smt. P. Warjri
Sri. H.O.Jana
Sri. B. S. Mohat
Smt. N. G. Marwein
Sri. T. K. Singha
Smt. P. Devi
Smt. A. M. Rynjah

Assistant Librarians:
Sri. K. K. Das
Smt. M. V. Soanes
Sri. P. K. Mitra

Assistant Director of Sports
Sri. P. Blah

Assistant Editor
Sri. B. Shylla

Documentation Officer
Dr. Lalmachhuana

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Sri. M. K. Bhattacharya
Sri. S. Chakraborty
Sri. A. D. Roye
Sri. I. Hussain
Sri. J. Cherian

System Analysts:
Smt. B. Rynjah
Sri. S. Ghosh

Scientific Officers:
Smt. B. Dhar
Sri. Thomas, J.K.
Dr. S. Dey

UNIVERSITY FINANCE

STATEMENT SHOWING THE RECEIPT AND EXPENDITURE FOR THE YEAR 2003-04

Non-Plan:

RECEIPTS

1. Grant received from U.G.C.	Rs. 35,47,97,953
2. Internal receipts	<u>Rs. 2,02,48,456</u>
Total Receipts =	Rs. 37,50,46,409

EXPENDITURE

1. (a) Salaries for Teaching Staff	Rs. 7,90,01,891
(b) Salaries for Non-Teaching Staff	Rs. 13,64,63,626
(c) Non-Salary	Rs. 13,70,66,791
(d) B. Capital	<u>Rs. 4,06,08,260</u>
Total Expenditure =	Rs. 39,31,40,568

Plan:

RECEIPTS

1. (a) U.G.C. Grant.	Rs. 1,92,00,000
(b) U.G.C. Grant (Non-lapsable)	Rs. 16,44,00,000
2. Internal receipts	<u>Rs. 37,21,120</u>
Total Receipts =	Rs. 18,73,21,120

EXPENDITURE	Rs. 15,85,57,548
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LIST OF AFFILIATED COLLEGES

Sl. No	Name of the College	Affiliation	Year of Estt.	Courses Affiliated
1.	St. Edmund's College, Laitumkrah, Shillong- 793 003	Permanent	1924	Degree (Arts, Sc. & Commerce)
2.	St. Anthony's College, Laitumkrah, Shillong- 793 003	Permanent	1934	Degree (Arts, Sc., Commerce, BCA, Information technology)
3.	Lady Keane College, Shillong-793 001	Permanent	1935	Degree (Arts & Science)
4.	St. Mary's College, Laitumkrah, Shillong- 793 003	Permanent	1937	Degree (Arts, Science & BCA)
5.	Union Christian College, P. O. UCC-793 122, East Khasi Hills	Permanent	1952	Degree (Arts & Science)
6.	Shillong College, Shillong-793 003	Permanent	1956	Degree (Arts, Sc. , Commerce & BCA)
7.	Sankardev College, Laban, Shillong-793 004	Permanent	1962	Degree (Arts & Science)
8.	Shillong Law College, Dhankheti, Shillong- 793 001	Temporary	1964	LL.B

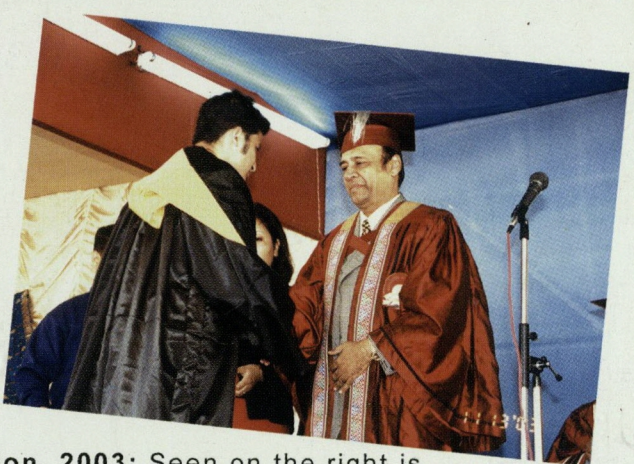
9.	College of Teacher Education (PGT), Boyce Road, Shillong-793 003	Permanent	1964	B. Ed.
10.	Synod College, Jaiaw, Shillong-793 002	Permanent	1965	Degree (Arts & Science)
11.	Kiang Nongbah Govt. College, Jowai-793 150, Jaintia Hills	Permanent	1967	Degree (Arts & Science)
12.	Tirot Singh Memorial College, Mairang-793 210, West Khasi Hills	Temporary	1987	Degree (Arts)
13.	Seng Khasi College, Jaiaw, Shillong-793 002	Permanent	1973	Degree (Arts)
14.	Raid Laban College, Laban, Shillong-793 004	Temporary	1985	Degree (Arts, Science & Commerce)
15.	Ri-Bhoi Collge, Ri-Bhoi, Nongpoh	Temporary	1986	Degree (Arts)
16.	Sngap Syiem College, Mawkyrwat, West Khasi Hills	Temporary	1986	Degree (Arts)
17.	Sohra College, Cherrapunjee, East Khasi Hills	Temporary	1986	Degree (Arts)
18.	Khat-Ar Doloi Law College, Jowai, Jaintia Hills	Temporary	1986	LL.B
19.	Nongstoin College, Nongstoin-793 119, West Khasi Hills	Temporary	1986	Degree (Arts)

20.	Shillong Commerce College, Laitumkhrah-793 003	Permanent	1986	Degree (Commerce)
21.	Women's College, Laitumkhrah, Shillong-793 003	Permanent	1987	Degree (Arts)
22.	Jaintia Eastern College, P. O. Khliehriat-793 200, Jaintia Hills	Temporary	1992	Degree (Arts)
23.	Nongtalang College, Nongtalang, Jaintia Hills	Temporary	1992	Degree (Arts)
24.	Bormanik College, 3 rd Mile, Upper Shillong-Kynton, Shillong-793 005	Temporary	1992	Degree (Arts)
25.	Buddha Bhanu Saraswati College (BBS), Mawprem, Shillong-793 002	Temporary	1994	Degree (Arts)
26.	Morning Star College, Nongthymmai, Shillong-793 014	Temporary	1994	Degree (Arts)
27.	Bissau College, Midland Compound, Jowai Road, Shillong-793 003	Temporary	1996	Degree (Arts & Commerce)
28.	Umshyrpi College, Laban, Shillong-793 004	Temporary	1995	Degree (Arts)
29.	Greater Mawlai College, Mawlai, Shillong-793 008	Temporary	1993	Degree (Arts)

30.	Mawsynram Border Area College, P. O. Mawsynram, East Khasi Hills	Temporary	1998	Degree (Arts)
31.	Nabon Synod College, Jaiaw, Shillong-793 002	Temporary	1998	Degree (Arts)
32.	Thomas Jones Synod College, Jowai, Jaintia Hills	Temporary	1998	Degree (Arts)
33.	North East Adventist College, Thadlaskein, Jowai Road, Jaintia Hills	Temporary	1999	Degree (Arts)
34.	Shillong Engineering & Management College, Laitumkhrah, Shillong-793 003	Temporary	1999	Proposed Degree in Elec. Engg, Computer BBA, Mech, Electronic
35.	Alpine College, Nongthymmai, Shillong-793 014	Temporary	1999	Degree (Arts)
36.	Goodwill College, Nongthymmai, Shillong-793 014	Temporary	2000	Degree (Arts)
37.	St. Mary's College of Teacher's Education, Laitumkhrah, Shillong-793 003	Temporary	1937	B. Ed.
38.	St. Dominic College, Nongthymmai, Dum Dum, Shillong-793 014	Temporary	1998	Degree (Arts)

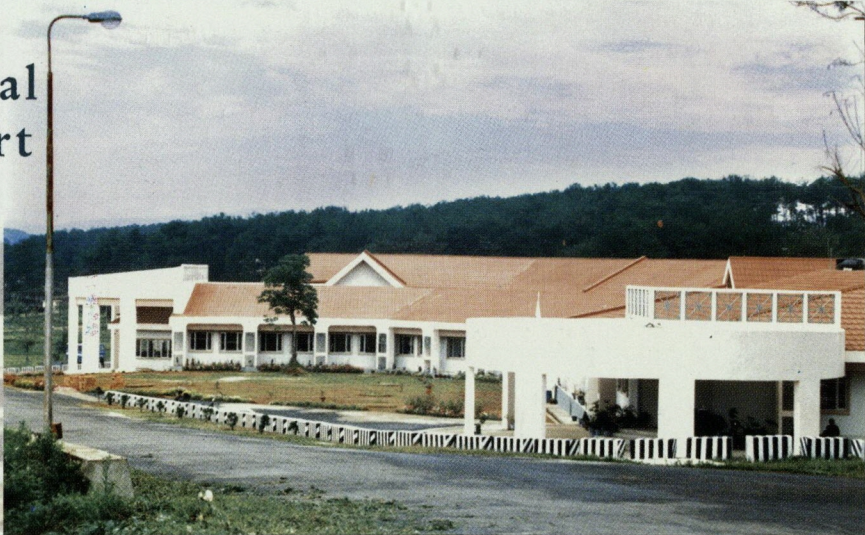
39.	Tura Govt. College, Tura-794 001, Garo Hills	Permanent	1958	Degree (Arts, Sc. & Commerce)
40.	Mendipathar College, P. O. Mendipathar, East Garo Hills	Permanent	1971	Degree (Arts)
41.	Acheng Rangmanpa College, Mahendraganj, Garo Hills	Temporary	1986	Degree (Arts & Science)
42.	Don Bosco College, Tura-794 002, Garo Hills	Permanent	1987	Degree (Arts & Science)
43.	Tikrikilla College, P. O. Tikrikilla-794 109, West Garo Hills	Temporary	1988	Degree (Arts)
44.	Kazi & Zaman College, New-Bhaitbari, West Garo Hills	Temporary	1992	Degree (Arts)
45.	Durama College, Tura	Temporary	1993	Degree (Arts)
46.	Capt. Williamson Memorial College, P. O. Baghmara-794 102, South Garo Hills	Temporary	1994	Degree (Arts)
47.	College of Teacher Education, Tura-794 002, Rongkhon	Temporary	1993	B. Ed.
48.	Tura Law College, Tura, West Garo Hills	Temporary	1975	LL.B

49.	Ramsang College, Williamnagar, East Garo Hills	Temporary	2001	Degree (Arts)
50.	Williamnagar College, Williamnagar, East Garo Hills	Temporary	2001	Degree (Arts)
51.	Christian Academy College, Pynthorbah, Shillong	Temporary	2001	Degree (Arts)
52.	Mawlai Presbyterian College, Mawlai, Shillong- 793 008	Temporary	2000	Degree (Arts)
53.	North Eastern Regional Institute of Science & Technology, Itanagar.	Temporary	1990	B. Tech.
54.	Phukan Memorial College, Daluh, Garo Hills	Temporary	2001	Degree (Arts)



Scenes from the XIII Convocation, 2003: Seen on the right is Professor Arun Nigavekar, UGC Chairman and Chief Guest, giving away one of the special prizes.

Annual Report



2003
-
2004

An overview of the new Administrative Complex inaugurated on 5 September 2003.



Students in ceremonial robes awaiting the Conferment of degrees.

North-Eastern Hill University

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