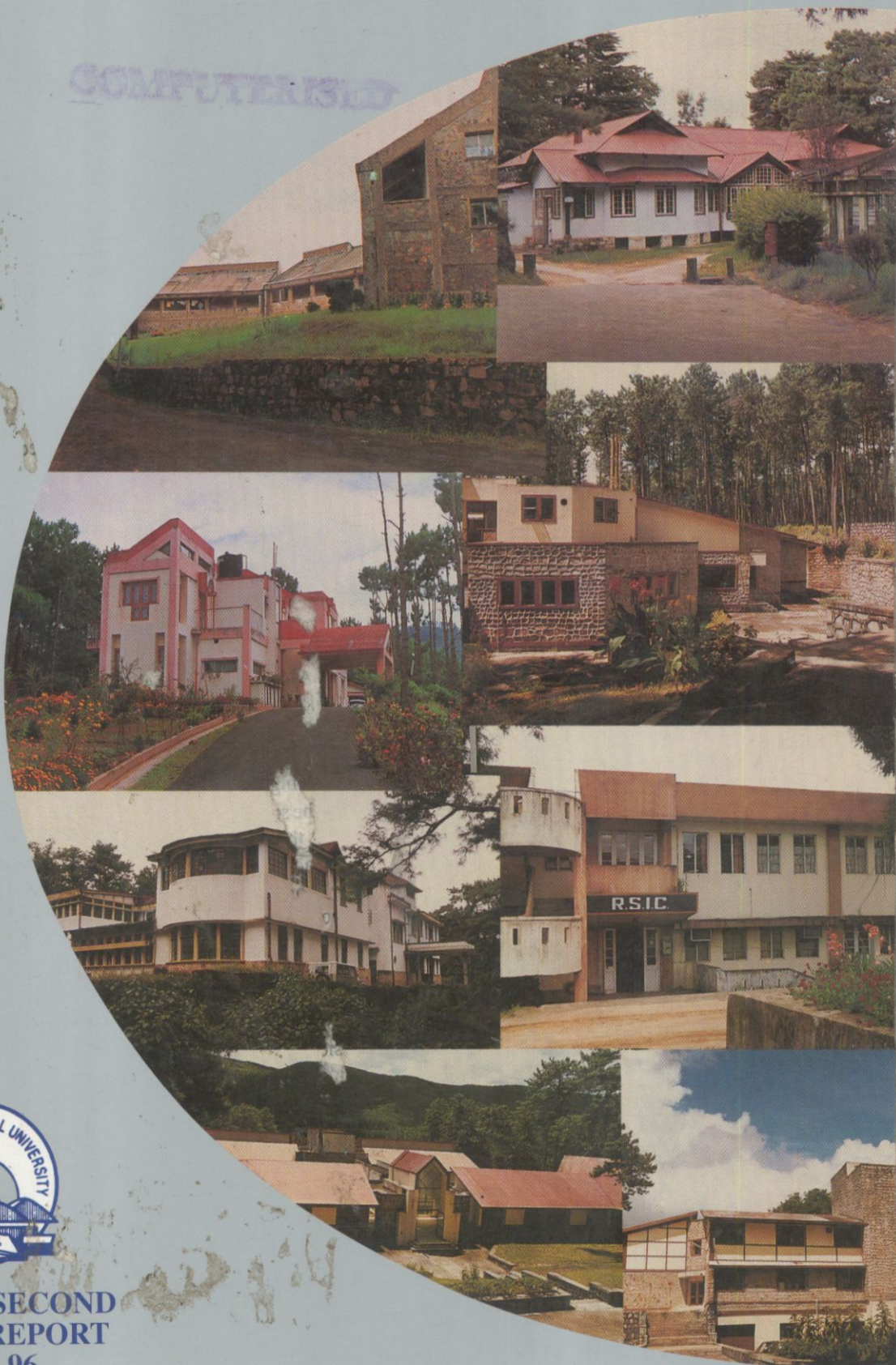


NORTH - EASTERN HILL UNIVERSITY

COMPUTERISED

NEHU ANNUAL REPORT 1995-96



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NOR.1995/96.22

TWENTY SECOND
ANNUAL REPORT
1995 - 96



Inauguration of the Tura Campus by the Hon' ble Prime Minister on 23rd February 1996.

North-Eastern Hill University Shillong

COMPUTERISED

Twenty Second ANNUAL REPORT



1995-1996

Consolidated Computer Centre NEHU and printed at
NEHU Printing Press, Shillong

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North-Eastern Hill University

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FROM THE VICE-CHANCELLOR'S DESK

The Annual Report for 1995-96, which is the Twenty-Second since the establishment of the University, records major academic and developmental activities. The progress of the last two decades has not only been carried further but has also been consolidated in many vital areas. Student enrolment in all faculties during the year is 20,371. Of these 19,226 are under-graduates in colleges affiliated to or maintained by the university, the rest are post graduate students in the Shillong and Aizawl campuses. The number of graduates awarded degrees in all faculties from this university in 1995 was 1300 and 190 received post graduate degrees in the Tenth Convocation which was held in November, 1995. In addition a total number of 6616 students obtained a pre-university degree. The total number of candidates who were awarded professional degrees was 106.

With colleges in Nagaland now under the newly established Nagaland University the total number of affiliated colleges in both Mizoram and Meghalaya is 59, of which six are professional, that is, Law and B.Ed. or teacher training colleges. However in accordance with the national policy the pre-university level or plus 2 stage has been handed over to the respective State Governments with effect from the 1995-96 academic session.

Teaching and research output of various academic departments have been furnished in detail in the report. The expectations from the re-organisation of the Schools of Studies, reported in 1994-95, appear in this regard fully realised. The peaceful environment in the campus, from where not a single disturbance of any untoward incident has been reported, has in a large measure contributed to the academic progress. As before teachers and officers of the university have continued to serve in various committees at the National, State and Regional levels.

The facilities in the university library, which has a total holding of 1,79,620, has been

greatly enhanced by computerisation and networking.

A milestone in the development of the university and a major step towards realising the objects laid down in Section 4 of the NEHU Act was the foundation of a Campus at Tura in the West Garo Hills District of Meghalaya. Situated in a relatively under-developed area it was widely welcomed by all sections of the people. The campus was inaugurated by the Prime Minister on the 23rd of February 1996. A Pro-Vice-Chancellor has already taken charge and initially two departments namely, English and Garo are to function from the next academic session.

The progress towards the development of the campus at Shillong though not spectacular has nevertheless been steady. Part of the Social Science Complex for which grants had been received is nearing completion and is expected to be ready for occupation during 1996-97. Residential accommodation for students and employees has been given due importance. In the Aizawl campus the responsibility for construction of buildings has been entrusted to the State Public Works Department. Plans for further development work during the Ninth Plan are in the final stages.

I take this opportunity to thank the members of the Editorial Board and their team who edited and compiled this Annual Report and also the NEHU Publications for having seen it through its publication.

131 am
B Pakem

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OFFICERS OF THE UNIVERSITY

Visitor	: The President of India
Chief Rector	: The Governor of Meghalaya
Chancellor	: Shri K R Narayanan Vice-President of India
Vice-Chancellor	: Professor B Pakem
Pro-Vice-Chancellors	
Mizoram Campus	: Professor R Lalthantluanga
Tura Campus	: Professor Milton S Sangma
Registrar	: Mr E J Mawlong (Acting) (upto 1.7.95) Mrs M A Shadap (upto 25.11.95) Dr A Patton (Acting) (upto 31.3.96)
Finance Officer	: Shri E J Mawlong (upto 1.7.95) Shri L Nampuii

Deans of School:

School of Humanities and Education	: Prof. (Mrs) K S Lyngdoh
School of Life Sciences	: Prof. R S Tripathi
School of Physical Sciences	: Prof. S N Bhatt
School of Social Sciences	: Prof. A C Sinha
School of Economics, Management and Information Sciences	: Prof. J C Binwal
School of Human & Environmental Sciences	: Prof. P K Misra

NEHU AT A GLANCE

The North-Eastern Hill University was set up as a Central University by an Act of Parliament and notified on 19th July 1973. The objects of the University 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 to the States of Meghalaya, Nagaland and the erstwhile Union Territories of Arunachal Pradesh and Mizoram and the Headquarters of the University is located at Shillong as per the Act of Parliament. With the establishment of the Nagaland University on 6th September 1994 the jurisdiction of NEHU over Nagaland ceased.

The University had opened Campuses at Shillong, Aizawl, Kohima and Medziphema. In addition, the University also started a pace-setting College at Mizoram in 1979 by taking over the Pachhunga Memorial Government College and renaming it as the Pachhunga University College. Initially, at Shillong the academic departments and administrative offices of the University started functioning in hired buildings and thereafter with the acquisition and purchase of the Mayurbhanj and Bijni Complexes most of the academic departments were shifted to these two Complexes. The Government of Meghalaya subsequently allotted land measuring approximately 1225 acres free of cost to the University for setting up its Permanent Campus. The survey and master plan of the site for the Permanent campus was taken up under the VI Plan. The VII Plan saw the beginning of the construction work with very limited grants from the University Grants Commission. By the year 1991 a number of constructions and Campus Development works like staff quarters, electrification, water supply, ring-road, USIC Workshop, Hostels (for men and women separately), Guest House and Seminar Complex, RSIC Complex and the Science Complex were carried out. At the moment all the Science Department except the Chemistry Department are functioning in the Permanent Campus.

The Headquarter of the University is also being presently housed in the RSIC Complex at the Permanent Campus. During the VIII Plan a sum of Rs. 200 lakhs was sanctioned by the University Grants Commission for construction work. Out of this allotted grant the construction for the Social Science Complex to house the Departments of Economics and Political Science have been taken up and the work is expected to be completed soon. During the IX Plan the University proposes to take up more construction projects and developmental work in the Permanent Campus like the Administrative Block, Central Library Building, Social Science Lecture Hall, Education Department Block, Central School Building, Staff Quarters, Sports Complex, external electrification, fencing, water supply, etc. The Telecom Department has also set-up a fully automated telephone exchange in the University Campus, the first of its kind in any University in the Region. At Mizoram the State Government has leased about 980 acres of land at Tahnriil, Aizawl. The construction work for the

same consisting of Administrative Block, P G Class Rooms and Laboratories amounting to Rs.1,19,77,000 has been handed over to the State PWD. With the setting up of Nagaland University, NEHU's jurisdiction over the State of Nagaland ceased and the Academic Departments in the State of Nagaland were handed over to the Nagaland University. However, quite a number of employees who were earlier serving in our erstwhile Nagaland Campus have remained under North-Eastern Hill University. This has led to the addition of three more academic departments namely, the Departments of Commerce and Linguistics at Shillong and the Department of Geology at Aizawl. As the employees were retained by the Nagaland University on deputation and the teachers concerned have recently been repatriated to NEHU, these three Departments will be functional only with effect from the 1996 academic session. In February, 1996 the University has set-up a Campus at Tura with the Departments of English and Garo to begin with.

Though the University is located in a remote corner of the country, NEHU has been able to establish itself as an Institution of repute with 24 Departments and 7 Centres of Studies under its six Schools, one Institute & an Under-Graduate College. The prestigious Regional Sophisticated Instrumentation Centre funded by the Department of Science and Technology, Government of India is being run at this University. The University Service Instrumentation Centre which is directly funded by the University Grants Commission has also been recently upgraded to Level II. Three Departments of the University i.e. Department of Botany, Chemistry & History have been identified for the Special Assistance Programme by the University Grants Commission. Besides, the Chemistry Department was also getting a special grant under the COSIST programme of the UGC. The Department of Zoology has also been granted the second phase of the DRS project from UGC. In addition to this a huge number of research projects have been awarded to individual teachers notably by the CSIR, DST, DAE, UGC, Ford Foundation DBT, DF & E etc. The University is also managing a number of endowments donated by various individuals & organisations including from His Excellency, Dr. Shankar Dayal Sharma, President of India, who is also the Visitor of the University, Justice Krishna Aier, besides others. The University was also awarded the prestigious Rajiv Gandhi Chair on Protective Discrimination for a period of five years for which the process for selection of the incumbent is going on. The State Resource Centre which caters to the States of Nagaland, Mizoram & Meghalaya and which is fully funded by the Ministry of Human Resources Development, GOI, is being run by NEHU.

On the achievements of individuals the notables are Professor M.K. Choudhury who was awarded the coveted "Shanti Sawroop Bhatnagar" Prize for his outstanding contribution to Scientific Research, Professor H. Junjappa selected as Fellow of the National Science Academy, Professors M.K. Choudhury, H. Junjappa & (Mrs). H.Ila, elected as FA.Sc, Professor R R Mishra, Professors S.S. Khare, S.R. Srivastava, R.S. Tripathi, FNA.Sc. Professors H. Junjappa & M.K. Choudhury FNSc, Prof (Mrs) K.S. Lyngdoh the Priya Darshani Award, Dr. Nirmalendu Saha the ISCA Young Scientist's Award, Dr. Vinod Singh, Career Award by the University Grants Commission, Prof. M.K. Mahanti, the Rev. F R L M Yeddnapalli Medal & Prize. Many of our teachers are also involved in active research in collaboration with a number of Universities & Institutes abroad both in the developed & under-developed countries.

The University has also organised a number of National and Regional Conferences, Seminars and Workshops and in the recent past two International Conferences.

At the moment, there are fifty-nine Under Graduate Colleges affiliated to the Univer-

sity including six professional course colleges. The North East Regional Institute of Science and Technology is also affiliated to the University.

The University Central Library which caters to the staff, teachers, post-graduate students as well as the honours under-graduate students and college teachers can boast of a collection of 1,45,394 books, 36,954 bound periodicals and a subscription of 416 foreign and 373 Indian journals. The average number of users per day is 382. The Mizoram campus library has a total of 1649 books and a subscription of 77 journals.

On the student front, our boys and girls have been doing well with many of them finding a place in the Central Civil Services, Banking Services, academic positions etc, while quite a few have been awarded scholarships/fellowships by both the national and foreign organisations, many have also qualified the NET, GATE and other national tests. The number of students/ scholars passing out each year can be seen at table I, II & III. Further, the Chief Proctor's office has also not had any problems in the recent past.

The overall achievement of the University is commendable, and true to our motto the entire University Community has the spirit to "Rise-Up and Build". With adequate grants NEHU can go a long way in fulfilling the objectives set forth.

TABLE I : NUMBER OF CANDIDATES AWARDED PH.D DEGREES SINCE INCEPTION

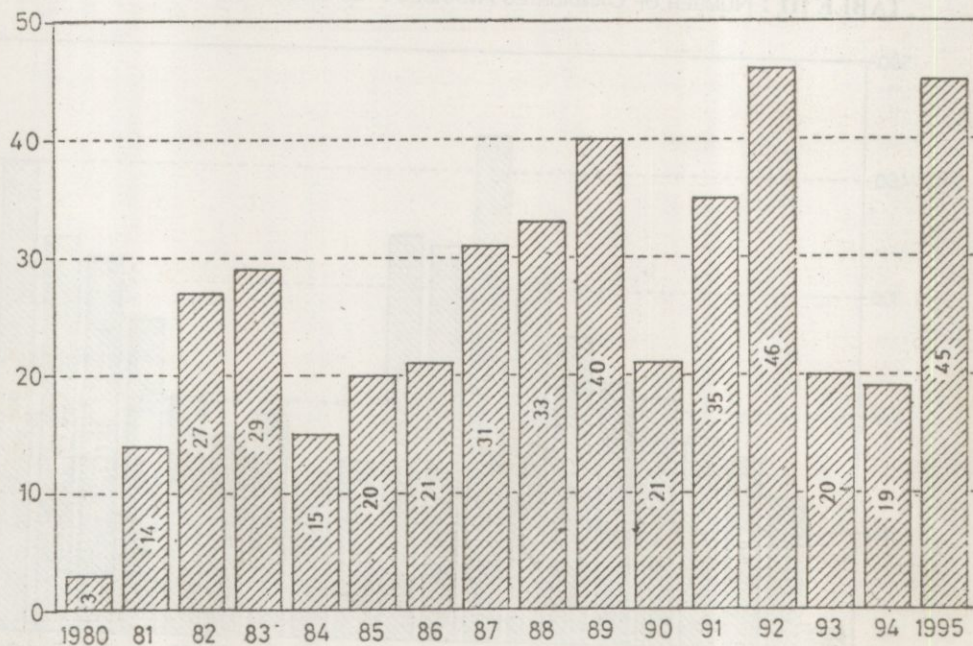


TABLE II : NUMBER OF CANDIDATES AWARDED M.PHIL DEGREES SINCE INCEPTION

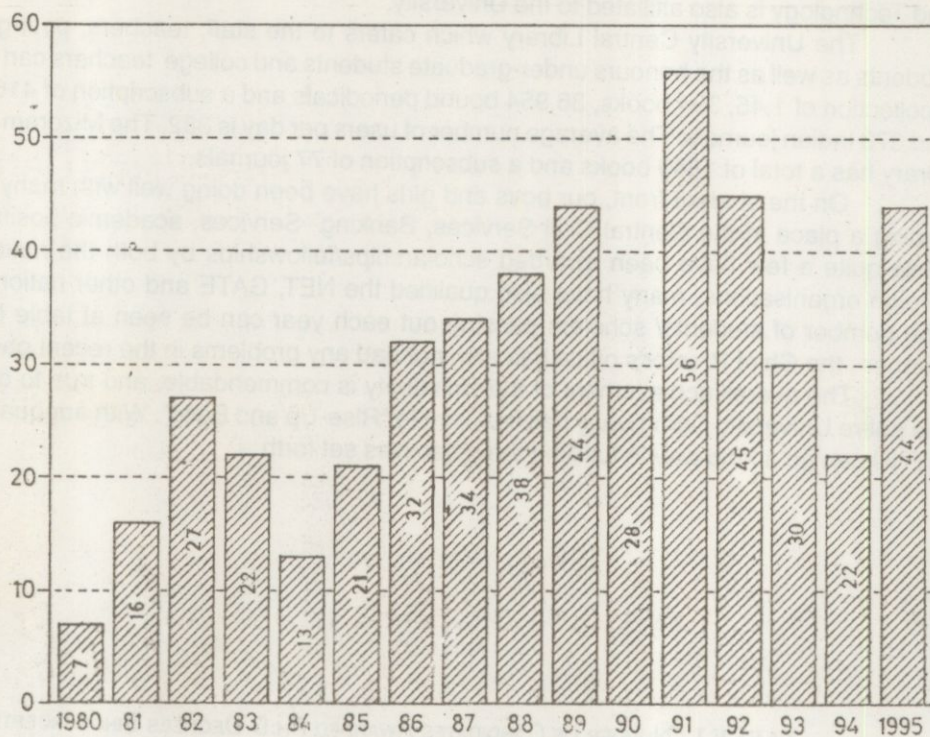
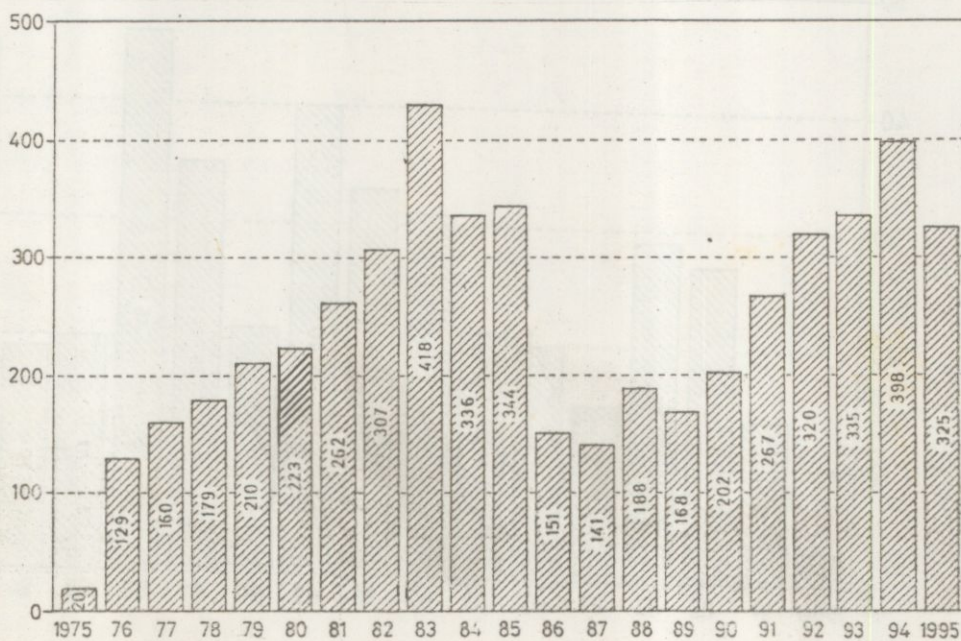


TABLE III : NUMBER OF CANDIDATES AWARDED P.G. DEGREES SINCE INCEPTION



I

SCHOOL OF ECONOMICS, MANAGEMENT AND INFORMATION SCIENCES

The School of Economics, Management and Information Sciences (SEMIS) was constituted in 1994 consequent upon the reorganization of the then existing Schools in the University. This School comprises of four Departments and a Centre, namely, (1) Department of Economics, (2) Department of Library and Information Science, (3) Department of Commerce, (4) Department of Business Management and, (5) Centre for Adult and Continuing Education. Of these, the Department of Business Management and the Department of Commerce have not yet started.

The Centre for Adult and Continuing Education continued during 1995-96 its activities aiming at creating awareness on important issues relating to Adult Literacy, health and hygiene, nutrition, income generation, women studies, skill improvement activities, population education and consumer's protection in the North-Eastern Region. During the year of reference it organised population education and adult literacy programmes in some states of NER. It also conducted some surveys and research work in the fields of literacy, electoral analysis and attitudinal analysis.

CENTRE FOR ADULT AND CONTINUING EDUCATION

The Centre for Adult and Continuing Education was established in 1974. The primary objective of the Centre is to create awareness on important issues at the grass root level with particular reference to overall and diverse learning needs of all segments of the people of the community. These include issues relating to Adult Literacy, Health and Hygiene, Nutrition, Income Generation, Status of Women and Women Studies, Skill Improvement activities, Population Education and Consumer's Protection. In addition, the Centre extends its academic support in the development of teaching and learning materials pertaining to societal needs. It also organises programmes in collaboration with other sister departments of the University and with State Government Departments and other Organizations and agencies both at the State and National level.

Head of the Centre :

Dr M C Pandey upto December 1995.
Dr Biloris Lyndem Laso since January 1996.

Faculty :

Name	Designation
M C Pandey, M.Sc. (Ranchi)	Professor
M S (Min), Ph.D. (Min).	
Mrs Biloris Lyndem Laso, M.A. (Gau)	Reader
Ph.D. (NEHU)	
K M Warjri, M.A. Ph.D (NEHU)	Lecturer
Mrs H K Synrem, M.A. Ph.D (NEHU)	Lecturer
Ms E Jyrwa, M.A. Ph.D (NEHU)	Project Officer
Mrs I Lall, M.A.	Project Officer

Courses Conducted :

A. Population Education

Certificate Course on Population Education was conducted at (1) Post Graduate Training College, Shillong, (2) Arunachal University, Doimukh and (3) Nagaland College of Education, Kohima. Under this programme, CACE through PERC & UGC funded schemes has been conducting surveys on the awareness and attitude of teachers at University, College, School and students as well as rural masses on problems such as STD, AIDS, Drug Abuse, issues relating to Environment, unprecedented rise in population, illiteracy, etc.

B. Total Literacy Programme

Total Literacy programme is being taken up in the three States of Meghalaya, Mizoram and Nagaland keeping in view the aims and objectives of the National Literacy Mission for the eradication of illiteracy.

Seminar/Symposia/Workshop (Organised/Attended)

Attended:

E. Jyrwa

1. Attended a seminar in Sociology department organised by the department of Sociology, NEHU, on 25th May, 1995 and presented a paper on "Judicial System in Tribal Areas".
2. Attended a three day Sub-regional Workshop on "Panchayati Raj in Meghalaya"

sponsored by the Rajiv Gandhi Foundation, New Delhi and organised by the NERC-ICSSR, Shillong on 12-14 October, 1995 at Shillong and presented a paper on "Critical Assessment on the Working of the District Councils in Meghalaya."

3. Contributed a paper at the eight Orientation Programme for Police Officers of Meghalaya, organised by the Meghalaya Police on 24-25 November 1995 at Baghmara, South Garo Hills District, Meghalaya, entitled "A Perspective on the Administration of Justice in Khasi Hills".

4. Attended the Sixteenth Annual Conference on 'Aspect of the history of North-East India', organised by the North-East India History Association on 4-6 December, 1995 at Assam University, Silchar and presented a paper on "Administration, Management and Control of Primary Education by the District Council in Meghalaya."

5. Attended the 5th Annual Conference on "Grass-Root Democracy in North-East India", organised by the North-East India Political Science Association on 18-19 December 1995 at Union Christian College, Barapani and presented a paper on "The Administration of Justice in Khasi Hills-Role of Traditional Institutions".

Publications:

i) Jyrwa, E., 1995 "Adult Education - Problems and Success in Meghalaya". *Journal of North-East India Council for Social Science Research*. 19 (i) 24-30.

ii) Jyrwa, E., (edn) "Working of the Autonomous District Council - A Critical Appraisal. *Proceedings of North-East India History Association - 15th Session*, 296-307.

iii) Lyndem, B., Lall, I., Devi, P., -Literacy Status in the North-Eastern Region of India and its constraints - A Study. *Journal of North-Eastern Council* (14) October - December.

iv) Pandey, M.C., 1994 - Irrigation Potential in the North-Eastern Region. *Proceedings of North-East India History Association XV*, 183-188.

v) Pandey, M.C., 1995 - Demographic Profile of the Garo Hills. In *Hills Societies : Omsons Publications, Rajouri Garden, New Delhi*, 21-31.

vi) Publication of PERC - Series-VIII on AIDS : A Booklet on AIDS (PERC Series-VIII).

vii) Translation : The book on AIDS was translated in 5 regional languages :-

Language	Translator	Language Editor
Khasi	Dr. (Miss) E Jyrwa	Dr (Mrs). Antinoris Jyrwa
Garo	Dr. (Mrs) M Momin	Dr M Sangma
Mizo	Mrs. Lalsangkimi Sailo	Mrs Lalsangkimi Sailo
Bengali	Dr. (Miss) Sen Gupta	Dr Soumen Sen
Assamese	Dr A K Baruah	Dr A K Baruah

Research :

i) Problems faced by Students of Synod College participating in Mass Literacy Programme - I Lall

ii) A Study of the Impact of Garo IPCL on Adult learners in Tikrikilla and Selsella,

East Garo Hills - Biloris Lyndem Laso and P Devi.

iii) Field investigator for the National Election Study, 1996 undertaken by the Centre of Developing Societies, New Delhi through Political Science Department and sponsored by ICSSR, UGC and the Hindu - E. Jyrwa.

iv) A Survey of the awareness and attitudes of College Principal and Teachers, Students (College & University), Voluntary Organisation, Women Organisation, Adult Education Functionaries and Administrators and Truck Drivers on the Problem of AIDS was conducted in Silchar and Gauhati in Assam, Agartala in Tripura, Shillong and Jowai in Meghalaya, Kohima and Medziphema in Nagaland, Doimukh in Arunachal Pradesh and Aizawl and Kolasib in Mizoram. The data obtained is being analysed.

DEPARTMENT OF ECONOMICS (AIZAWL)

The Department of Economics in the Mizoram Campus was started in 1979.

Campus Head : Professor Tlanglawma.

Faculty :

Name	Designation
Tlanglawma, Ph.D. (NEHU)	Professor and Head of Department.
K.K.Upadhyaya, Ph.D. & D. Litt (Allahabad)	Professor
A.K.Agarwal, Ph.D. (Kanpur)	Reader
Lianzela, Ph.D. (Gauhati)	Reader
Thangchungnunga, Ph.D. (Gauhati)	Reader
S.K.Ghosh, M.Phil (NEHU)	Lecturer.

Students intake :

(a) Enrolment capacity: M.A. : 20

(b) Actual admission :

	SC	ST	Genl.	Total	Male	Female.	Total
M.A.	Nil	17	1	18	10	8	18

Courses conducted for M.A.:

Political Economy, Macro-Economic Analysis, Mathematics for Economists, Statistical Analysis, Micro-Economic Analysis, Public Economics, Economics of Development and Planning, International Trade, Economics of Agriculture, Monetary Economics, Indian Economy, Economy of North-Eastern Region.

Seminars/Conferences/Symposia/Extension organised and attended:

Organised:

The Department organised a one-day seminar during the year inviting students and teachers of other disciplines in the Campus. One Scholar from Australia participated as a resource person. The rest of the resource persons are from the department itself and also from other departments in the Campus. The attendance was fairly good.

Attended:

Professor Tlanglawma, Dr.K.K.Upadhyaya, Dr. Lianzela and Dr.Thangchungnunga attended an International Seminar on "Environment, Biodiversity and Sustainable Development in North East India held at Aizawl during 26-27 September 1995. Dr.Lianzela presented two papers - "Sloping Agricultural Land Technology as a Substitute for Jhumming in Mizoram" and "Livestock for Sustainable Development in Mizoram". Dr Thangchungnunga presented a paper entitled "Environment and Sustainable Agricultural Development in the context of Mizoram".

Publications:

Agarwal, A K: "Urbanisation and Growth Centres in Arunachal Pradesh" in : Ganguly, J B (ed), *Urbanisation and Development in North-East India : Trends and Policy Implications*, (Deep & Deep Publications), New Delhi, 1995. pp 146-58

Agarwal, A K "Environmental Concerns and Development of North-East India" in : Srinivasa Gowda, M V and Subrahmanya, Sisheela (eds.), *Regional Economic Development in India*, (Deep & Deep Publication) New Delhi, 1995.

Hom Choudhury, Lianzela and Thankungi : Validation Survey Report of Not covered Habitations Identified During 1991-93 for Safe Drinking Water Resources in Mizoram, for Rajiv Gandhi National Drinking Water Mission, Ministry of Rural Development, Government of India, 1995.

Lianzela : "Development of Mizoram Economy" in : Subramanya & V.Srinivas Gowdas (ed.), *Regional Economic Development in India* (Deep & Deep Publication) New Delhi, 1995.

Lianzela : *Four Decades of Planning in Mizoram*, Khuangkungi, Aizawl, 1995.

Thrust Area of Research : Development Economics with special reference to North-East India.

Research Programme/Research Project:

Professor T Lawma : Preparation of Perspective Plan for Conservation Management & Development of Land and Water Resource -- North-Eastern Zone : Sponsored by the Ministry of Agriculture, Government of India.

DEPARTMENT OF ECONOMICS

Since 1980, the Department has been giving greater importance to the study of the economy of the N.E. region and in this regard a majority of the M.Phil and Ph.D. students are working on problems relating to the North-Eastern Region. The M.A. students are assigned empirical work/field study under a supervisor to bring out a dissertation in partial fulfilment of the requirement for the degree of M.A./M.Sc. in Economics and since 1994 the course on "Economy of the North-Eastern Region" has been introduced as one of the full-fledged compulsory courses in the Fourth Semester.

The courses of study in the Department are periodically updated to take into account the latest development in the profession and to maintain national and international standards so as to make our students capable of competing with the products of other reputed Universities. To that end, adequate emphasis is given on the quantitative techniques.

Head : Professor K Bez upto 21.5.95 and Professor S K Mishra with effect from 22.5.95.

Faculty :

Name	Designation
K. Bez, M.Sc., LLB.(Gauhati) M.Sc.,Tech.(Manchester) Dip.Tech.Ed.(Leeds) Ph.D.(Netherlands School of Economics)	Professor (Retired on 31.12.95)
S.K. Mishra, M.A.(Bhagalpur) M.R.P.(IIT Kharagpur) Ph.D. (IIT,Kharagpur)	Professor
M. Lalwani, M.A., Ph.D.(Delhi)	Professor
P.M. Passah, M.A. Ph.D.(Gauhati), LL.B.(NEHU)	Reader upto 6.12.95 Professor from 7.12.95
N. Srivastav, M.A.(Rajasthan) Ph.D.(IIT, Kanpur)	Reader
E.D. Thomas M.A. Ph.D.(NEHU)	Lecturer upto 6.12.95; Reader from 7.12.95

B. Mishra, M.A. (Utkal)
M.Phil (NEHU)
A.C. Dube, M.A. (BHU)
Ph.D.(IIT, Bombay)
Orester J.Kharpuri, M.A. (NEHU)
LL.B.(NEHU)

Lecturer
Lecturer
Lecturer
(Joined on 8.12.1995)

Student intake :

Enrollment capacity M.A. - 50
 M.Phil - 20
 Ph.D. - 20

	SC/ST	Genl.	Male	Female	Total
M.A.	22	6	19	9	28
M.Phil	3	8	6	5	11
Ph.D.	6	6	9	3	12

Courses conducted :

M.A./M.Sc. (Compulsory)

Political Economy, Macro-Economic Analysis, Mathematics for Economists, Statistical Analysis, Public Economics, Economics of Development and Planning, Micro-Economic Analysis, International Trade, Indian Economy and Economy of North-Eastern Region.

Optional Papers

Theories of Industrial Economics, International Trade & Monetary Policy, Computer Programming for Social Scientists, Static Optimization Techniques, Industrial Organization in India, Environmental Economics, Modern Growth Economics, Dynamic Optimization Techniques, International Economics, Economics of Agriculture, Econometrics, Economics of Human Resources, Mathematical Economics, Economics of Third World, History of Economic Thought, Urban and Regional Economics, Transport Economics, History of Economic Development and Monetary Economics.

M.Phil

1. Major Issues in Indian Economy; 2. Scientific Methods and Quantitative Techniques; 3. Advance Economic Theory; 4. Institutional Economics.
Out of these four courses, the M.Phil scholars have to choose three courses.

Seminars/Conferences/Symposium/Extension Programmes organised and attended during the year :

Organised:

The Department, in collaboration with the North-Eastern Regional Centre of the ICSSR, Shillong, organized a guest lecture by Prof. Atul Sarma, Director, Indian Statistical Institute, Delhi and Visiting Fellow in the Department, on 14.7.95. The topic of the lecture was "Current Economic Reform Programme". The function was presided over by Prof. B. Pakem, Vice-Chancellor and Chairman, NERC-ICSSR, Shillong.

Attended:

Professor K. Bez attended and delivered an invited lecture on "Education and the Duty of the Students towards the Society" organised by the Lakhimpur District Educational and Cultural Development Committee, North Lakhimpur on 12-14 August, 1995, in Bihpuria, North Lakhimpur.

Professor Lalwani attended the following seminars :

1. A Two-Day Seminar on Ethnicity, Culture and Nationality - Problems in the Context of North-East India organised by the Department of Philosophy, NEHU, Shillong, and presented a Paper entitled "Changing Economic and Technological Scenario - Implications for the North-East India" on 26th August, 1995.
2. A Workshop on Philosophy of Social Sciences organised by the Department of Philosophy in September 1995, and delivered a talk entitled "Measurement of Welfare".
3. Presented a Paper on "Employment Modelling in India - Role of Engineers" in a day-long seminar organised by the Association of Engineers in India, Shillong Chapter on 'Engineers' Day Celebration', September 1995. (Paper co-authored with Dr. E D Thomas).
4. A Seminar on Urbanization, Status of Women and Structural Adjustments in the North-East India organised by Women's College, Shillong, and presented a paper entitled Gender Treatment under Neo-Classical Economics : Impact of Urban Accretion and Urbanization on the Weal of Female Labour on 2nd December, 1995.

Dr. P.M. Passah attended :

1. A Seminar in April 1995 on Changing Aspects of Family in Meghalaya sponsored by NERC-ICSSR, Shillong, and directed by Dr. P.M. Chacko, Reader, Department of Sociology, NEHU, and presented a Paper on "Some Changes in the Matrilineal System of Khasi-Jaintia Family."
2. A Seminar in April 1995 on Population Growth Trend in North- East India and Its Impact on Natural Resources and Social Services conducted by the N.E. India Council for Social Science Research, Shillong, in collaboration with Population Education Research Centre, NEHU, and Voluntary Health Association of Meghalaya, Shillong, and presented a Paper on "Population Growth and Female Literacy with Special Reference to North-East

India".

Visiting Professor/Fellow :

The Department invited Prof. Atul Sarma, Head, Delhi Centre, Indian Statistical Institute, New Delhi, for a period of three weeks (23rd June - 15th July, 1995) as Visiting Fellow.

Study Tour/Field Trips of Students

The Department sent a group of students on a study tour with Dr. E.D. Thomas as the Incharge from 17th to 30th, January, 1996. The group visited Bombay, Goa and the adjoining areas.

Thrust Area of Research

The following are the areas of research of the Department :

Operational Research, Econometrics, Economics of Health, Economics of Education and Manpower, Economics of Agriculture, Economics of the North-Eastern Region, Economics of Rural Development, Economics of Energy and Transport, Quantitative Economics, Industrial Economics, Monetary Economics, Public Economics, Regional Planning, Urban Economics. Twenty seven term papers in these areas were submitted by the IVth Semester Students.

Degrees Awarded :

1) Mr. E.D. Thomas was awarded the Degree of Doctor of Philosophy (Ph.D.) on 25.4.95 for his work entitled "Rural Employment/Unemployment in Comprehensive Accounting Framework : A Case Study of Rural Areas of Meghalaya", under the supervision of Prof. M. Lalwani.

2) Mrs. Tarujyoti Buragohain was awarded the Degree of Doctor of Philosophy (Ph.D.) on 25.7.95 for her work entitled "Agricultural Development Marketed Surplus and Price of Foodgrains in Indian Economy", under the joint supervision of Prof. T. Lawma of the Department of Economics, NEHU, Shillong, and Prof. Shri Prakash of the National Institute of Educational Planning and Administration, New Delhi.

3) Mr. Abdus Shahid was awarded the Degree of Master of Philosophy (M.Phil) on 16.6.95 for his work entitled "Study of the Trend Composition and Determinants of Savings in India (1950-51 to 1991-92)" under the supervision of Dr. A.C. Dube.

4) Mr. Zothangliana was awarded the Degree of Master of Philosophy (M.Phil) on 21.10.95 for his work entitled "Urban Land Use in Mizoram : Study with Special Reference to Aizawl", under the supervision of Prof. T. Lawma.

DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

The Department of Library and Information Science established in 1986, has been conducting a four-semester integrated course leading to the degree of Master of Library and Information Science and a course leading to the degree of Bachelor of Library and Information Science for those who cannot afford to complete the four-semester course. The department has so far produced 201 professional graduates.

Head : Professor J.C.Binwal

Faculty :

Name	Designation
J C Binwal, M.A.(Kashi Vidyapeeth) M.Lib.Sc. (Delhi), Ph.D. (Karnataka)	Professor
Mrs. Veena Saraf, M.Lib.Sc (Delhi) M.Phil (Delhi)	Senior Lecturer
Moses M Naga, M.Lib.Sc (NEHU)	Lecturer

In addition, Dr.B.S.Butola of the Department of Geography, NEHU, helped in teaching "Statistics" to the third semester students.

Computer Centre, NEHU, helped in teaching of the paper "Computer applications in Library and Information Services" to the Students of the 4th semester.

Senior Library Staff helped in teaching "Library Classification (Practice)" and "Library Cataloguing (Practice)" and also in imparting 'on-job training' to the students of Ist and IInd semesters. Two-hour practical training in the Library per working day is compulsory for 1st and IInd Semester students.

Student intake :

(a) Enrolment capacity :

M. Lib. Sc =	28
Ph.D. =	8

(b) Actual admission :

	SC / ST	General	Total	Male	Female	Total
First Semester	19	9	28	7	21	28
Ph.D.				4	0	4

Degrees Awarded :

Ph.D.

Shri Lalit P Pathak for his thesis on " Sociological concepts and their representation in Information Retrieval tools: A Comparative study of Terminology". Under the supervision of Prof. J C Binwal.

Courses Conducted :

Library and Society, Organisation of Knowledge (Theory), Organisation of Knowledge (Practical), Information Services and Sources, Library Management, Information Technology, Tour Dairy, Job Dairy and Viva Voce, Universe of Knowledge : Structure and Development, Library System Analysis and Elements of Statistical Methods, Information Users and their needs, Information Retrieval Techniques, Information and Literature Sources in (a) Humanities (b) Social Sciences (c) Natural Sciences, Information Systems and Services and Management of Information Systems.

Seminars and Symposia etc :

(a) Organised

The Department organised a workshop on "Library Automation Using CDS/ISIS" from 16th October to 20th October 1995. It was jointly sponsored by NISSAT (National Information System for Science & Technology), and AGLIS (Association of Government Libraries and Information Specialists) and NEHU. Twenty three persons participated in the workshop including 5 Scholars from Delhi and 2 from Kanpur.

(b) Attended :

Professor J.C.Binwal,

(i) Attended the Seminar on "The Role of Libraries in Promoting Reading Habits" organised by Meghalaya Library Association on 26th May, 1995 at Shillong and Chaired one of the Sessions. Also submitted a paper on "Reading: Its value, Nature and Role of Libraries"

(ii) Delivered a lecture on "Library Automation" as a resource person in the seminar on 'Library Automation, CD-ROM and on-line information service', organised by Global Information Systems Technology Pvt. Ltd. at Gauhati on 9th June 1995.

(iii) Attended the meeting of the Programme Committee of INFLIBNET-CALIBER-96 at Ahmedabad on 19th August, 1995.

Visiting Professors/Fellows :

1. Dr. M.P. Satija of Guru Nanak Dev University, Amritsar from 17th September 1995 to October 16, 1995.
2. Professor Krishna Kumar of Delhi University, from 1st May to 31st May 1995.

Publications :

Binwal, J.C. "Identification of main concepts in Sociology and their Categorization" in *Knowledge Organisation*, 21:2 (1994).pp 69-74 (co-authored with Pathak, L.P)

Study Tour/Field Trips of Students :

The Department conducted the Educational Tour to Calcutta from 28.3.96 to 6.4.96. The following Libraries were visited and observed:-

1. British Council Library, Calcutta.
2. American Centre Library, Calcutta.
3. National Library, Calcutta.
4. Asiatic Society, Calcutta.
5. Raja Ram Mohun Roy Library Foundation, Calcutta.

Thrust Areas of Research :

1. Universe of Knowledge : Structure and Development.
2. Computer Applications and Information Technology.
3. Information Storage, Organisation and Retrieval.
4. Information Management.

Other Remarks :

Professor J.C.Binwal,

(i) Member of the Research Committee of Raja Ram Mohun Roy Library Foundation, Ministry of Culture, Government of India.

(ii) Member of the Advisory and Screening Committees of the North Eastern Regional Centre of Indian Council of Social Science Research.

(iii) Member of the Library Committee of Assam University, Silchar.

II

SCHOOL OF HUMANITIES AND EDUCATION

The School of Humanities and Education came into being on 20th September, 1994 encompassing within its fold the Department of Education from the erstwhile School of Education and some departments from the erstwhile School of Social Sciences and the School of Languages.

The Department of Education and English are located in Shillong as well as in Aizawl. All the other Departments and the Centre for Distance Education as well as the Centre for Creative Arts are stationed at the Shillong Campus.

CENTRE FOR CREATIVE ARTS

The Centre for Creative Arts was established in 1977 with the primary aim of providing important incentives in art appreciation and education in the region.. Since inception, the Centre has conducted various courses, workshops and seminars on arts and the allied subjects to inculcate a systematic approach to the various aspects of art and also to create an awareness to the significance, usefulness and applicability of art and creativity in education and society. Efforts accordingly have been made in the light of different activities to focus the role of art education in the educational frame-work.

Head : Dr. (Mrs) Helen Giri.

Faculty :

Name	Designation
(Mrs)Helen Giri, Ph.D. (Gauh)	Professor
D.L.Kharmawphlang, M.A. (NEHU)	Lecturer
M.H.Barbhuiya, B.Fine (V.B.)	Lecturer

Seminars/Conferences/Symposium/Extension Programmes: (Organised)

1. The centre organised a three day seminar on 'the composition of prominent mu-

sic composers of Khasi & Jaintia Hills' at NEHU Seminar hall Mayurbhanj Complex, Nongthymmai, Shillong from 22nd to 24th August, 1995. The Seminar being the first of its kind was well attended by a number of Khasi-Jaintia music composers and other resource persons who have made significant contribution to Khasi Music.

2. The centre in collaboration with the Centre for Literary and Cultural studies, organised a week long workshop on "City Impressions-workshop of painting and poetry" from 5th to 13th June, 95 at Bijni Complex, NEHU, Laitumkhrah, Shillong-3. The workshop involved both the poets and painters who interacted simultaneously with each other to bring meaningful fusion of both art forms.

3. In collaboration with the Shillong poetry society, the Centre organised a one-day poets' meet on the 11th Sept. 1995 at NEHU Seminar Hall, Mayurbhanj Complex, Nongthymmai, Shillong. The Meet acquainted the poetry lovers of Shillong with the works of the poets and served as an exposure to the younger crop of talents.

4. A Programme of "Ka Jingpule poetry" (Khasi Poems) was organised on the 20th Oct. '1995 at the NEHU Seminar Hall, Mayurbhanj Complex, Nongthymmai, Shillong. The programme brought together the local poets, composers, writers and poetry lovers who had a meaningful interaction in this art form.

Seminars /Conferences: (Attended)

Dr. (Mrs) H Giri.

1. Participated in a two-day Symposium on "the role of College Libraries" in Lunglei Government College, Mizoram in December' 1995 a UGC sponsored scheme.

Mr.D.L.Kharmawphlang.

1. Participated as a resource person at the North Eastern poets' Meet at Kohima on 10th and 11th May 1995 organised by the Sahitya Akademi and the NEZCC.

2. Organised and participated in Creative Expressions, a poetry and Song writers' meet at the State Central Library, Auditorium, Shillong.

3. Participated in a sponsored invitation in the U.K. year of Literature and Writing '95 in the United Kingdom and the Republic of Ireland in the month of July, 1995.

4. Participated and presented a paper in Anadi, a Seminar on Tribal Art held at Itanagar, Arunachal Pradesh from 18-20 Nov.'9, organised by the Indira Gandhi National Centre for the Arts, New Delhi.

M.H. Barbhuiya.

1. Solo Exhibition of paintings held at Art Heritage gallery, New Delhi from 6th October to 21st October' 1995- organised by "Art heritage", New Delhi.

2. Participated in "Intercity Meet of Artists"- a National level workshop on painting at Kalimpong (West Bengal) from 21st to 25th February' 1996- organised by Kalimpong Rotary Club.

Publications :

Giri H. " Ka Miet Apphira" Er iwbi publication, Shillong, Oct. 1995.

Thrust Area of Research : "Art and Craft of North-East India".

Research Programme/Research Project:

1. The Centre is preparing a Retrospective catalogue on the Art traditions of North-East India.

Any other Remarks:

Documentation of folk music (tribes of North-East) a Research study of Folk Music of some of the Tribes of North-East. A number of symposia have been scheduled to facilitate compilation of folk music traditions.

DISTANCE EDUCATION

The Centre for Distance education NEHU, Shillong came into being in 1985 to organise and introduce distance education programmes in the University.

Director : Dr. (Mrs) M Lyndem (Laso).

Faculty: Professor - (Vacant)

Publication

Presented a status paper on "patterns & practices : students support services of IGNOU, Study Centre", Shillong.

Any other remarks :

As per the Academic Council Resolution No. AC:47:93:5:06 dated 7.12.93 the Council considered the feasibility of providing admission to private candidates in the post Graduate programmes of Social Science and Humanities and resolved that a Project proposal for one/ two disciplines be made in consultation with the department identified for the purpose and be submitted to the University Grants Commission, New Delhi, for necessary funds.

The Project proposal for starting a correspondence course in Political Science was despatched to Dr. A.M. Sajanani, Under Secretary, UGC, New Delhi on 20th January 1996.

DEPARTMENT OF EDUCATION AIZAWL

The Department began functioning in 1980 with a One Year M.Ed. programme and then graduated to a Two-Year M.A.(Education) programme in 1986.

Head : Professor K P Nath

Faculty :

Name	Designation
K.P.Nath M.A.,Ph.D (Gau).	Professor
R.S.Wangu, M.A., M.Ed.,Ph.D. (Pb.U.)	Reader
P.K.Gupta, M.Sc (Agra.U.) M.Ed. (Delhi U.), M.Phil, (Meerut U.)	Reader
R.P.Vadhera, M.A., M.Phil,Ph.D. (Kurukshetra U.)	Reader
B.D.Chinara, M.A.,M.Phil.,Ph.D. (Pb.U.)	Sr Lecturer
Mrs.Lalbiakdiki Hnamte, M.A. (NEHU)	Lecturer

Student intake :

(a) Enrolment Capacity	: 20
(b) Actual Admission	: 18

SC	ST	General	Male	Female	Total
-	18	-	9	9	18

Courses conducted :

Advanced Educational Psychology, Educational Thought - Eastern & Western, Research Methodology in Education, Educational Management, Advance Sociology of Education, Curriculum Development, Educational Testing and Evaluation, Education in the Third World, Advance Philosophy of Education, Educational Technology, Education of Exceptional Children, Teacher Education, Laboratory Practicals, Pre-School Education and Yoga Education.

Seminar/Conferences/Symposia/Extension Programmes :

Professor K P Nath organised an International Seminar on Environment, Bio-Diversity and Sustainable Development in North East India at Aizawl on 26 and 27 September, 1995 with

Professor C.C.Tisdell, Professor and Head, Department of Economics, University of Brisbane, Australia as the Key-note Speaker and presented the following papers :

- (1) "Tobacco Growing in Mizoram - Its impact on Environment and Economy of the State".
- (2) "Population Growth in Mizoram - Its impact on Environment, Biodiversity and Economy of the State".

Dr. P K Gupta

1. Attended a Seminar on Changing Aspect of Family in Nagaland on 8th June, 1995 organised by the Department of Education, Nagaland University and Sponsored by ICSSR. Prepared a report of the seminar and presented the same at the Valedictory session.

2. Acted as critic in an Inter-College Debate on the topic "Sex Education should be made compulsory at the Under-Graduate Level" on 3rd August, 1995 at Kohima Arts College jointly organised by Family Planning Association of India (FPAI), Nagaland Branch and All Nagaland College Student's Union (ANCSU).

3. Chaired the working session of the Lecture Series on 28th September, 1995 at South Asian Friendship Meet, 1995 organised by Servants of Peoples Society, Delhi at North-Eastern Zonal Cultural Centre, Dimapur from the 24th September, 1995 to 3rd October, 1995.

4. Delivered a talk on the topic "Art and Creativity" at the North-East Tribal Poets' and Writers Meet organised by North-East Zone Cultural Centre, (NEZCC), Dimapur on 18th October, 1995.

5. Delivered a talk on "Family Life Education" at the Nagaland College of Education, Kohima on 21st October, 1995 in a Population Education programme jointly organised by Nagaland Institute of Health Environment and Social Welfare, Kohima and Centre for Adult and Continuing Education, NEHU, Shillong.

Publications

Nath, K. P., "Environment Issues in Indian Agricultural Development" in V.S. Mahajan (Ed), Agriculture, Rural Development and Panchayati Raj Vol. I, New Delhi, Deep and Deep Publications, 1996.

Nath, K.P., "Poverty Alleviation in India: An Appraisal" in V.C. Mahajan (Ed), Agriculture, Rural Development and Panchayati Raj Vol. I, New Delhi, Deep and Deep Publications, 1996.

Nath, K.P., "The Village councils - Their Role in Local Self Government in Mizoram" published in V.S. Mahajan (Ed) Agriculture, Rural Development and Panchayati Raj Vol. II, New Delhi, Deep and Deep Publications, 1996.

Nath, K.P., "The Raltes", in Sachchidananda and Prasad (Ed) Encyclopaedia Profile of Indian Tribes New Delhi, Discovery Publishing House, 1995.

Wangu, R.S., "Science and Mathematics Education in the Tribal State of Mizoram- Long Way to Go" in V.K. Gupta (Ed) Readings in Science and Education, Ambala Cantt., The Associated Publishers, 1995.

Wangu, R.S., "Educational Management in Mizoram" in IIPA (Ed) Landmarks : A

Study of Public Administration in Mizoram, Aizawl, Lengchhawn Dress, 1995.

Chinara, B.D., "A Conceptual Perspective of Value in Research", Indian Journal of Social Research, June - December, 1995.

Thrust Area of Research :

Deviant Adolescent behaviour, Drug abuse, etc., Achievement motivation, Adult Education, Christian Denominations-their role in Education in Mizoram.

Research Programme/Project undertaken :

Dr.K.P.Nath

Guided two Ph.D. level research projects

1. Adult Education in Mizoram - A Development profile.

2. Educational Activities of various Christian Denominations in Mizoram.

Dr.R.S.Wangu

(a) Completed a NEHU sponsored project: "Study of Attitude towards Education of College Students in Mizoram".

Dr.P.K.Gupta

Guided two Ph.D. level research projects

1. Problem of wastage in Primary Education in Nagaland

2. Creativity Appreciation Training Programme (CATP) - its effect on Teachers' attitude towards creative teaching and learning.

DEPARTMENT OF EDUCATION SHILLONG

The Department was established in the year 1976 and officially offered courses for the M.Ed degree which involved teaching for two semesters. In 1982-83, the M.Ed. course was replaced by courses leading to M.A. in Education. This involves teaching for four semesters. The Department, in addition, offers M.Phil and Ph.D. Programmes in Education. With the re-organization of Schools in the University, the Department is placed in the School of Humanities and Education. The Department has successfully organized six UGC sponsored Refresher Courses in Education for College and University teachers. Besides this, the Department has been carrying on two Research Projects, one funded by UGC and the other funded by NCERT.

Head: Professor M A Sudhir.

Faculty :

Name	Designation
P.P.Gokulanathan, M.A., Ph.D.(Gau)	Professor
Mrs.K.S.Lyngdoh, M.A.(Gau), Ph.D.(M.S.U)	Professor
Mrs. M S Padma, M.Ed. (Bangalore) Ph.D.(M.S.U)	Professor
M A Sudhir, M.A.(Calicut) M.Ed (Kerala), Ph.D.(Calicut)	Professor
R.Bhattacharjee, M.A.(Gau) M.Ed.(H.P.U), Ph.D.(NEHU).	Professor
Mathew George, M.Ed., M.A. (Kerala) Ph.D. (M.S.U) (retired on 31-8-1995)	Professor
P.K.Ganguli, M.Ed, Ph.D.(M.S.U)	Reader
A.Henia , M.A.(Gau), Ph.D (JNU)	Reader

Student intake :

- (a) Enrolment Capacity : M.Phil (10), M.A. (30).
(b) Actual Admission. :

Degree.	SC.	ST.	Genl.	Male.	Female	Total
M.A.	1	19	0	6	14	20
M.Phil.	x	7	2	2	7	9
Ph.D.	x	13	8	2	19	21

Degrees Awarded :

M.Phil. in Education : 5 (five).

Srabani Das, "An investigation into the inservice training programmes for school teachers of Greater Shillong". Supervisor Prof. R. Bhattacharjee

Sushama Rana, "A study of Life goals and learning styles of college students in Shillong". Supervisor Prof. M A Sudhir

Meghali Baruah, "A study of the relationship between attitude towards and achievement in Mathematics of standard IX students in Dibrugarh Town". Supervisor Dr. P.K. Ganguly

Mamoni Borgohain, "A critical study of Women's higher education in Sibsagar District, Assam". Supervisor Dr. (Ms.) A. Henia.

Sirazul Islam, "A study of social attitudes and values of college students in Nagoan District of Assam". Supervisor Prof. M.A. Sudhir.

Ph.D. in Education : 2 (two)

Parijat Chakarbarty, "A study on the computer Education in the high schools of selected States of North-East India". Supervisor Prof. (Ms.) M.S. Padma.

Florett E.Dkhar, "A study of gifted Children in relation to creativity, adjustment and academic achievement in the secondary schools of Shillong". Supervisor Prof. P.P. Gokulanathan.

Courses conducted :

(a) M.A.

Advanced Educational Psychology, Educational Thought (Eastern & Western), Research Methodology in Education, Educational Management, Advance Sociology of Education, Curriculum Development, Educational Testing and Evaluation, Education in the Third World, Advanced Philosophy of Education, Educational Technology. Education of Exceptional Children, Teacher Education, Laboratory Practicals, Pre-School Education, Teaching of English Dissertation, Methodology of Educational Research, Educational Problems of the North-Eastern Region with particular reference to Meghalaya, Mizoram and Nagaland, Advanced Sociology of Education.

Seminars/Conference/Symposia/Extension Programmes :

1. Professor P.P.Gokulanathan :

Attended National seminar on "Sustainable development through community education and HRD strategies" held at Nagpur on 13th May, 1995.

Attended workshop on inspection and supervision for inspecting officers of Meghalaya at Shillong 17th - 21st August, 1995.

Attended workshop of resource persons of Diploma in higher Education course of IGNOU organised at their Regional centre, Calcutta, 31st July to 2nd August, 1995.

Professor K S Lyngdoh

Presented a paper on the "Role of Libraries in Promoting Reading habits" at a seminar organised by Meghalaya Library Association, Shillong on 12th May, 95.

Presented a paper on problems of Women in India with special reference to Meghalaya at the XII All India Women's Education conference, Hyderabad held on July 7-8, 1995.

Participated in a workshop for Adult Education Directors organised by NIEPA at New Delhi on August 1-3, 1995.

Attended a seminar on Composition of prominent Composers of Khasi and Jaintia Hills, held in the Mayurbhanj Campus of NEHU on 22nd August, 1995.

Delivered lectures at the 4th, 5th and 6th Refresher Courses in Education, NEHU, Shillong.

Professor (Mrs) M S Padma

Attended the National Resource Group Advisory Committee Meeting at NCERT, New Delhi, 22nd May, 1995.

Attended the Expert Group Meeting at NCTE, New Delhi 24th and 25th August, 1995. Presented a paper entitled, "Determinants of Learner Achievement at Primary level of Education : A Look into" at the seminar on School Quality in India, organised by NIEPA, New Delhi, 14th - 16th November, 1995.

Delivered lectures as a resource person at the 4th 5th and 6th Refresher Courses conducted by the Department of Education, NEHU, Shillong.

Delivered lectures in the Refresher Course in Education at Gauhati University, March, 1996.

Professor M.A.Sudhir

Attended the 'Integrated course on Knowledge and Information' at the National Institute of Advanced Studies, Bangalore, July 3 - 31, 1995.

Delivered extension lecture on "Education and Self-Actualization" at Mount Fort College, Bangalore on August 1, 1995.

Conducted a workshop on 'Emotional problems of colleges students' for the participants at the 4th Refresher Course Education, NEHU, on August 26, 1995.

Delivered lectures as a resource person, at the 5th Refresher course in Education, NEHU, Shillong on 'Models in Creativity-December 12-13, 1995.

Delivered lectures, as a resource person, at the 2nd Refresher course in Education, Gauhati University on "Development of Creativity" - December 19, 1995.

Professor R.Bhattacharjee

Attended a workshop on "School Management" organised by SCERT, Meghalaya, Shillong June 14-16, 1995 presented a paper on "Functions of Managing Committee".

Attended, as a member, the meetings of the Main Committee for finalisation of Normal Training School Curriculum organised by MBOSE, at Shillong (April 12-13, 1995; May 22-23, 1995; and September 18-19, 1995.)

Attended, as a resource person, a workshop on inspection and supervision held at SCERT, Shillong July 26-28, 1995.

Attended workshop of Resource persons of Diploma in Higher Education of IGNOU, held at IGNOU, Regional Centre, Calcutta, July 31 -August 2, 1995.

Attended Research Guides workshop, organised by American Studies Research Centre (ASRC) at Darjeeling; August 21-22, 1995.

Delivered lectures, as a resource person, at the 2nd Refresher course in Education, Gauhati University, December 11-12, 1995.

Delivered lectures at the orientation course conducted by the Academic Staff College, Gauhati University, on February 9-10, 1996.

Attended as General Secretary of the Society, Annual Conference of North East India Education, held at Manipur University, Imphal; February 28-29, 1996. Conducted, as the course coordinator, 3 (three) UGC-sponsored Refresher Courses for the College and

University teacher, in Education, held at NEHU, Shillong: August 11-31, 1995; November 24-December 14, 1995; and March 8-28, 1996.

Dr P K Ganguli

Acted as Resource person in the Fourth Refresher Course conducted by the Department of Education, NEHU, Shillong.

Acted as Resource person in the Fifth Refresher Course conducted by the Department of Education, NEHU, Shillong.

Acted as Resource person in the Sixth Refresher Course Conducted by the Department of Education, NEHU, Shillong.

Dr.(Miss) A Henia

Delivered lectures as a Resource person in the 4th, 5th and 6th Refresher course in Education, conducted by the Department of Education (a UGC sponsored Refresher Course for the college and University Lecturers), NEHU, Shillong.

Publications :

Sudhir, M.A. and Khiangte V "Non-cognitive correlates of creativity among the secondary school students", Indian Educational Review, NCERT, New Delhi November, 1995.

Sudhir, M.A. "Adolescence: Developmental Dimensions and Educational Implications," Journal of North-East India Education Society, Shillong Vol.II and III (1995).

Bhattacharjee R. "Concept of inspection and supervision" in inspection and supervision, SCERT, Directorate of Education, Government of Meghalaya, Shillong 1995.

Bhattacharjee R. "Reorganization of Educational system in India: General Perspectives", Journal of North East India Education Society, Shillong Vol.II and Vol. III 1995.

Henia, A. "Education in the rural areas with special reference to North-East India", Journal of North East India Education Society Vol. II and Vol III 1995.

Study Tours/Field Trips of Students : 1 (one)

Thrust Area of Research :

- a) Educational system in the North Eastern Region.
- b) Environmental Education.

Research Projects :

- a) "Environmental Education" - Project undertaken with financial support from UGC.
- b) "Evaluation of the working of Jawahar Navodaya Vidyalayas in North-Eastern Region" Project undertaken with financial support from NCERT, New Delhi, by Professor P.P. Gokulanathan.

Any other remarks :

The Department organized three U.G.C. Refresher courses in Education for College and University teachers during the year under report.

**DEPARTMENT OF ENGLISH
AIZAWL**

The Department was established in 1979, as part of NEHU's policy to bring higher education to the door steps of the people of Mizoram. Since the late eighties the department has decided to specialize in Language Teaching so that its expertise can be used to improve the standard of English in Mizoram. It has of late become a nodal agency for curriculum designing, teacher training and other aspects of language teaching in Mizoram, over and above the normal teaching. During the year under review 1 student has been awarded Ph.D. and one has recently submitted a thesis. The Library has been considerably expanded and the department has a full fledged language Laboratory of its own.

Head : Dr. S. Ganguly.

Faculty :

Name	Designation
S. Ganguly , M.A. (Delhi), Ph.D.(Ranchi)	Reader
Mrs. M.Zama, M.A., Ph.D.(NEHU)	Senior Lecturer
Mrs. R. Ralte, M.A. (NEHU)	Senior Lecturer

Student intake :

- (a) Enrolment capacity : 20
(b) Actual Admission:

M.A.:	SC/ST	Genl	Male	Female	Total
	16	1	4	13	17

Courses conducted : M.A. English course, Teaching 'Language' Option.

Publications :

1. Ganguly, S. -Linguistic Description of Chakma Language in Pan-Aziatic Linguis-

tics, Mahidol University, Bangkok (1996).

Teaching - Testing Proficiency in English & in Indian Education Today. NCERT (1996). ELT at Cross Roads, Linkman Calcutta (1995).

Curriculum Resources for Teaching Learning English : The available options in ELT at Cross Roads (1995).

(2) Zama, M. - The Dark Breastic : A Study of the Protagonists of William Golding: Writer's Workshop, Calcutta (1996)

(3) Ralte, R. - The use of Contrastive Analysis for teaching English in Mizoram in ELT at Cross Roads, (1995).

Thrust Area of Research : English Language Teaching.

Any Other Remarks

During the year Dr.S.Ganguly was invited for the Second time by the Mahidol University, Bangkok, Thailand to present a paper in the Pan-Asiatic Linguistics Conference which he attended in January 1996. He was also invited by University of Oregon USA to present a paper in SEALS VI Conference in May 1996.

DEPARTMENT OF ENGLISH SHILLONG

The Department of English, established in September 1973, is the first academic department of the University. At the moment it has fifteen sanctioned faculty positions. It runs M.A., M.Phil., and Ph.D. programmes.

Head : Professor Noorul Hasan.

Faculty :

Name	Designation
Noorul Hasan, M.A. (Allahabad) Ph.D. (Manchester)	Professor
Emmanuel N.Lall , M.A. (Patna) Ph.D. (Southern Illinois)	Professor
Mrs. T. Ao, M.A. (Gauhati), Ph.D. (NEHU) (On lien as Director, North-East Zone Cultural Centre)	Professor
R.P. Sharma , M.A., Ph.D. (Bihar)	Reader
S. Satpathy, M.A. (Sambalpur) M.Phil (Hyderabad), Ph.D. (NEHU)	Reader

K.C. Baral, M.A. (Utkal), Ph.D. (NEHU)	Reader
S.N. Singh, M.A., Ph.D. (Magadh)	Reader
Ms. N. Syiem, M.A. (NEHU), M.Phil. (Delhi)	Lecturer
Ms. E. Syiem, M.A. (Delhi)	Lecturer
M.Phil. (NEHU) (On Study Leave)	
Ng. Robin Singh, M.A. (NEHU)	Lecturer

Student intake :

- (a) Enrolment capacity : 50
(b) Actual admission :

	SC	ST	Genl	Male	Female
M.A.	-	50	38	31	57

Degrees awarded :

M.Phil :

Bimal Sharma, "Naipual and India: The growth and Development of an Artist".
Supervisor : E N Lall.

Ph.D.:-

Mrs. Nirupa (Saikia) Borkakati, "Chinua Achebe: The Novelist as Social Critic". Su-
pervisor : E N Lall; Joint Supervisor K C Baral.

Courses conducted :

M.A. :

Poetry, Fiction, Drama, Prose/Language, Indian Writing in English, Modern Litera-
ture, American Literature, Literary Theory and Criticism, Commonwealth Literature,
Shakespeare, Tragedy/Essay.

M.Phil.:

Contemporary Criticism, European Literature, Modern Poetry, Modern Fiction.

Seminars/Conferences/Symposia/Extension programmes :

Professor N.Hasan :

1. Delivered a lecture on "The image of Man in English literature" in a seminar on the
Philosophy of Social Sciences" organised by the department of Philosophy, NEHU, Shillong
in October 1995.

2. Gave a talk on "Some Issues in Translation" in the comparative Literature Camp
organised by the Centre for Literary and Cultural Studies, Shillong.

Professor E N Lall :

1. Presented a paper entitled "Tribal Identity and Ethnicity in Achebe's Arrow of God : A Critical Reading" at a seminar organised by ICSSR, Shillong, and the department of Philosophy, NEHU, August 25 and 26, 1995.

2. At a seminar on "Contemporary American Literature" sponsored by USIS, Calcutta, at Darjeeling, September 18-19th, 1995 invited to read at a poetry-reading session.

3. On the invitation of the Department of English, Patna University delivered a lecture to the Post-graduate students of the department on April 12, 1996. 5 Topic: "V.S.Naipaul and the Indian Diaspora"

Dr R P Sharma :

1. "Indian nationalism : A Layman's view"- a paper presented at the seminar on Ethnicity, Culture and Nationalism: Problems in the context of the North-East Organized by the department of Philosophy, NEHU, Shillong on 25-26 August 1995.

Dr. S.Satpathy :

1. Attended a workshop of Research Guides organized by ASRC Hyderabad held at Darjeeling August 1995.

2. Attended a workshop on Social Sciences, NEHU, Shillong, Colloquim.

3. Attended a seminar on Ethnicity culture and Nationalism etc. paper.

4. CIEFL, Shillong Regional Centre : "The Teaching of Humanities what is to be Done Now!" Paper on "The lessons of Parody for Pedagogy". March 18-20 1996.

5. On November 1995 delivered a seminar lecturer in the Philosophy department on "Poe among Deconstructionists".

Dr. K.C. Baral :

1. Seminar on "Ethnicity, Culture and Nationalism organised by ICSSR and department of Philosophy, NEHU, Shillong 25-27th August, 1995.

2. National seminar on "Women and Social Change" organised by Centre for Women's Studies, Gauhati University 29-30th December, 1995.

3. International Seminar on "Teaching of Humanities what is Needed Now" organised by CIEFL, Shillong, 18-20th March, 1996.

4. Workshops on "Methodologies of Social Sciences" organized by the department of Philosophy, NEHU, Shillong during September, 1995.

5. "Research Guides workshop in American Literature" organized by ASRC, Hyderabad 21-22nd August, 1995.

Mr. Ng. Robin Singh :

1. Toured Wales as a writer in July 1995 during the U.K. Year of Literature & Writing 1995.

Publications :

Dr. R.P.Sharma :

1. Woman in Hindu Literature: New Delhi:Gyan Publishing House, 1995.

Dr. S.Satpathy :

1. "Concealing the Debt": A Note on Ezra Pound's 'In a Station of the Metro' English Language Notes March 1995.
2. "An Allusion to Stevenson in the Wasteland" Papers on Language and Literature Summer 1995.
3. "A Review of T.S.Eliot: An Anthology of Recent Criticism" by T.K.Basu, CIEFL Bulletin 1993 (appeared in 1995).
4. T.S. Eliot and J.S.W.N. Sullivan Notes and Queries June, 1995.
5. "The Swallow in the Waste Land" In between March 1995.
6. Re-viewing Re-viewing, ed. with an Introduction and Notes Madras: T.R.Publications, 1995.
7. Poems published in the Telegraph (Sunday Magazine), 1995 and in the Brown Critique July-September, 1995.

Dr.K.C.Baral :

1. Published Article:(1) "The Counter-Realm: Women's Discourse in India", Re-valuations, 1/3, 1995.
2. Articles Accepted for publication: (1) "Psychoanalysis Besides Itself: As Literature and Critical Theory" Critical Practice, June, 1995 (ii) "Spreading a Feast: George Santayana as a Literary critic", Vikram Journal of English Studies, June, 1995 (iii) "Re-reading wordsworth's Preface to the Lyrical Ballads", Burdhan University journal of English Studies, December, 1995 (iv) "Exploring the 'Free Zone' : Feminism and the Text", Gauhati University Journal of English Studies, December, 1995.

Mr. Ng.Robin Singh :

1. Poems appeared in *Khasia in Gwalia: an Anthology of Poetry and Prose from the Khasi Hills*, published in June 1995 by Alun Books, Wales.
2. Poems published in SWAG No.3, *The Magazine of Swansea's Writers & Artists* in July 1995.
3. Poems published in New Statesman & Society, 14 July 1995 Vol. 8 No. 361, London.
4. Poems appeared in Indian Literature, 168 July-August 1995, Vol XXXVIII No.4, published by the Sahitya Akademi, New Delhi.

Thrust Area of Research :- Renaissance Literature & Modern Literature.

DEPARTMENT OF KHASI

The Department was established in 1981. In this short period of time it has made and is making steady and positive progress towards an in-depth study of Khasi literature, language and culture. Teaching and research particularly in the thrust areas are receiving due priority.

Head : Dr. B.L. Swer

Faculty :

Name	Designation
H.W.Sten , Ph.D.(NEHU)	Professor
B.L.Swer, Ph.D.(NEHU)	Reader
Mrs. M.B. Jyrwa, Ph.D.(NEHU)	Reader
Mrs. B.War, Ph.D.(London)	Sr.G.Lecturer
Mrs. S. Dkhar , Ph.D.(NEHU)	Sr.G.Lecturer

Student intake :

Enrolment Capacity - 30

Actual Admission :	SC/ST	Genl.	Male	Female	Total
	29	-	7	22	29

Degrees awarded : M.Phil.

1. Bygrace Raplang, "Ka Poetry u D.S.Khongdup". Supervisor: Dr. B. L. Swer
2. Mercy Kharkamni, "Kharlukhi's ka Melody: A Critical Study". Supervisor: Dr.M.B.Jyrwa.
3. P.Wanniang, "Ka Phangpdeng haka Poetry U So So Tham". Supervisor Dr. B. L. Swer.
4. S.Syiemlieh, "Major Themes in V.G. Bareh's Poetry". Supervisor Dr.S.Dkhar.
5. R.Khongwang, "A.Jala's Haba ka Kupar Jot ka Dawa: A Critical Study". Supervisor Dr.S.Dkhar.

Courses conducted :

M.A.:

Linguistics, Khasi Poetry, Khasi Lit. Criticism, Khasi Fiction, Khasi Drama, Lit. Theory & Criticism, Khasi Prose, Literature in Translation, Cultural Pattern in Khasi Literature, Dissertation.

M.Phil:

Folkloristics, Methodology of Research, Literary Themes and Techniques.

Seminars/Conferences etc. :

A 4-day Workshop on "Khasi Literary Themes" for College teachers of Khasi & Jaintia Hills was organised from the 12th 14th February 1996. 25 teachers participated in the Workshop and "Certificate of Participation" were also distributed to them.

Publications :

B.L.Swer-Book: Ka Mationg Ki Khanatang (The essence of Folklore). 1995

Study Tour/Field Trips :

Undertook a Field Trip-cum-Study Tour to Mawsynram and Mawphlang areas, East Khasi Hills on February 1996 to acquaint students of the importance of environmental awareness.

Thrust area of Research : Linguistics, Literature, Culture and Folkloristics.

DEPARTMENT OF PHILOSOPHY

The Department of Philosophy, a unit of the School of Humanities and Education, came into existence in 1974. It started its M.A. Programme the same year but introduced the M.Phil programme only in 1979.

The objective of the Department is to develop the logical and analytical ability of the students to critically reflect on various issues that confront them within their own culture and tradition by introducing them to courses on Indian Philosophy, Analytical Philosophy, Moral Philosophy, Logic, Philosophy of Religion and History of Western Philosophy.

Head : Professor M M Agarwal

Faculty :

Name

Designation

Mrinal Miri, M.A.(Delhi)
Ph.D.(Cantab) (On lien as Director,
Institute of Advanced Studies)

Professor

Mrs S.Miri, M.A.(Delhi), Ph.D.(Delhi) (on leave for 2 years Nov.1994-Nov.1996)	Professor
N Malla, M.A. (Utkal), Ph.D. (IIT,Kanpur)	Professor
M M Agarwal , M.A. (London), Ph.D.(London)	Professor
C R Agera , M.A.(Madras), Ph.D (Delhi)	Reader
Jagat Pal , M.A.(Allahabad) Ph.D. (IIT, Kanpur)	Reader
S C Daniel, M.A. (Madurai), Ph.D.(NEHU)	Reader
X P Mao, M.A.(NEHU), M.Phil (Delhi) (on leave)	Lecturer
E R Tongper, M.A., Ph.D.(NEHU)	Lecturer

Students intake : 60

- (a) Enrolment Capacity : 56
(b) Actual Admission under the heading :

	S.C. / S.T.	Genl.	Male	Female	Total
	22	34	19	37	56
Ph.D.	9	15	16	8	24

Courses Conducted :

M.A. :

Indian Metaphysics, Symbolic Logic, Moral Philosophy, Philosophy of M.K.Gandhi, Indian Logic and Epistemology, Philosophy of Religion, Descartes and Modern Philosophy, Moral Philosophy-II, Philosophy of Mind, Understanding Tribal Culture,Kant, Later Philosophy of Wittgenstein, Contemporary Western Philosophy, Issues in Contemporary Indian Society, Existentialism, Philosophy of Kant, Philosophy of Natural Sciences, Contemporary Philosophy of Religion.

Seminar/Conference attended :

Dr. S.C. Daniel attended :

1.National Seminar on Gandhi on Gandhian Vision and its Relevance in the 21st Century, organised by A.I.U. on 25th and 26th September, 1995. Presented a paper entitled, "Gandhi's Concept of Higher Education".

2.National Seminar on Bio-Social Dimensions of Ageing, organized by I.I.A.S. Delhi from 13-15 November, 1995. Presented a paper on "Ageing and Death: A Christian Perspective".

3.Regional Seminar on Impact of Migration on Chota Nagpur in Tea Plantations of Assam, January, 1996. Presented a paper on "Impact of Migration on Santhals of Chota nagpur in Tea Plantations of Assam with special reference to language and culture".

Publications :

Daniel, S.C

"Hed's Philosophy of History - A Critical Evaluation" *Progs of the Eighteenth* (1994) *Session of the North East India History Association*, Shillong 1995 pp 17-23

"Plato's Theory of Forum-Revisited" *North Eastern Hill University Journal of Social Sciences and Humanities*, vol xii, No.3-4; July-Dec 1994 Pub. Shillong 1995

"Karl Popper and the Poverty of Histicism acitical appraisal" - *Sanskriti Sandhana-Journal of the National Research Insstitute of Human Culture*,

Agrawal , M M :

"On Culture,Ethnicity and nationalism", in 'Culture,Ethnicity and Nationality', edited M.M.Agrawal (In Press).

'A Teleological Conception of Culture' in *Mansacharya*, Vol.1.,December, 1995.

'Education as a Cultural Process', paper presented at the International Seminar on Teaching Humanities,Central Institute of English and Foreign Language, Shillong.

Agera, C.R. :

Review Article, "Christianity and India", on Arun Shourie's *Missionaries in India : Continuities, Changes, Dilemmas* (New Delhi : ASA, 1994),in the *Vidyajyoty Journal of Theological Reflections*, Vol.59:7, 1995.

Review of S.Karotemprel's *A Glimpse of His Glory: A Collection Religion Poems*, (New Delhi : Heritage, 1994) in the *Indian Missiological Review*, Vol17:1, 1995.

Jagat Pal:

"The Doctrine of Karma:A Conceptual Analysis", *Essence*, Vol.III, 1995.

"What`s Wrong with Primoratz`s Argument", *North-Eastern Hill University, Journal of Social Sciences and Humanities*, 1995.

"Logical Statua of Historical Inquiry", *Proceedings of N.E.H.A.*, 1995.

Papers presented in Conference and Seminar :

Jagat Pal, "Relevance of Buddhist Moral Principles" Presented at a National Seminar on Global Chaos and the Role of Buddhism, at Siliguri, 1995.

Jagat Pal, "The Problem of Genuineness", presented in N.E.H.A. Conference at Assam University,Silchar, 1995.

Jagat Pal, "The Concept of Culture", presented a paper at the Seminar on Ethnicity,Culture and Nationalism at N.E.H.U., 1995.

Jagat Pal, "Truth Conditions paradigm", presented a paper at the All India Seminar on 'Theory of Meaning, Indian as well as Western Perspectives, held on 14th - 15th May, 1996 at Cotton College, Gauhati.

Thrust Area of Research :

Although the Department is cohesive in many ways, it is difficult to say that the Faculty is or can be organised around a very specific area of Philosophy, particularly in view of the extreme interconnectedness of the various areas. All that can be said is that there has been considerable work done on the articulation and understanding of tribal cultures; and on several conventional problem areas of Philosophy. The two projects under the Departmental Research Support Programme might enable us to crystallise a thrust area (s). But all this, however, is not to say that the Department suffers from any lack of cohesiveness.

III

SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

The School of Environmental Sciences was established in 1976 with the listed departments as Geography, Geology, Architecture. Subsequently, the Centre for Natural Resources and Forests was added (in 1984) at the Aizawl Campus, Mizoram. The Department of Geography was started in the year 1976 at Shillong Campus. The Department of Geology was started in the year 1984 at Kohima Campus of NEHU, Nagaland. During the end eighties, the Centre for Natural Resources and Forests was converted to a Department of Forestry and was attached to the School of Agriculture.

During the restructuring of departments and centres in Schools of Studies in the University in 1994, the Department of Anthropology was attached to the School and the school renamed, "the School of Human & Environmental Sciences". Currently, the School offers Masters programmes in Geography and Anthropology including research programmes leading to M.Phil and Ph.D degrees. Consequent upon the administrative (jurisdictional) reorganisation of the University, the teaching and research programmes in Geology has been in temporary hold. It is likely that the Masters and research programmes in Geology has been in temporary hold. It is likely that the Masters and research programmes in Geology may recommence from 1997-98.

DEPARTMENT OF ANTHROPOLOGY

The Department was established in 1981. It conducts teaching and research in two major branches of Anthropology: Cultural Anthropology and Physical Anthropology. The Department imparts training at M.A/M.Sc.; M.Phil and Ph.D levels.

Head : Dr R K Pathak.

Faculty :

Name

Designation

P.K. Misra, Ph.D (Luck)

Professor (Retd.on 28.2.96.Re-employed for 2 years)

A.K. Ghosh, Ph.D (Cal)	Professor
R.K. Pathak, Ph.D (Punj)	Reader
T.B. Subba , Ph.D (NBU)	Reader
Henry Lamin, Ph.D (NEHU)	Reader
S.Sengupta, Ph.D (NEHU)	Reader
(Mrs) L.T. Zehol, M.Phil (NEHU)	Lecturer
V. Pakentein, M.Phil (Delhi)	Lecturer

Student Intake :

Enrolment Capacity : M.A./M.Sc. 20

Actual Admission :

	SC	ST	General	Male	Female	Total
M.A./M.Sc.	-	14	6	12	8	20

Degrees Awarded :

Ph.D.

1. Chandana Bhattacharjee, "Movement for Autonomy : A Case Study of the Bodo-Kacharis of Assam". Supervisor Dr. A.K. Ghosh & Dr.P.S. Dutta.
2. Lucy Thomas Vashum, "Ethnicity in Manipur: Experiences, Issues & Perspectives". Supervisor Prof. A.P.Sinha.
3. Anungla Aier, "Nagaland - Ethnography History & Development". Supervisor Prof.A.P.Sinha.
4. Nitul Kumar Gogoi, "Acculturation in the Brahmaputra Valley: The Ahom Case". Supervisor Prof.P.K. Misra.

Courses Conducted:

Physical Anthropology, Social and Cultural Anthropology, Anthropology of India, Practicals in Physical Anthropology, Palaeoanthropology and Prehistoric Archaeology, Methods in Anthropological Studies, Anthropological Theory, Practicals in Palaeoanthropology & Prehistoric Archaeology.

PHYSICAL ANTHROPOLOGY STREAM

Demography & Biostatistics, Human Growth, Development & Physique, Human Genetics, Practicals in Advance Physical Anthropology, Field Work, Medical Anthropology, Human Ecology and Adaptation, Practicals in Advance Physical Anthropology.

SOCIAL & CULTURAL ANTHROPOLOGY STREAM

Demography & Biostatistics, Methods in Anthropology Studies, Advance Anthropol-

Seminars/Conferences/Symposia/Extension

Organised :

(i) Lecture by Prof. I.P. Singh, Department of Anthropology, University of Delhi, on Anthropology in India.

(ii) VIII Verrier Elwin Memorial Lectures by Dr. Daniel O'Connor, Adviser on Inter-Faith Matters to the Bishop of Wakefield, West Yorkshire, U.K., on various themes in the writings of Verrier Elwin (a series of three lectures).

(iii) IX Verrier Elwin Memorial Lectures by Prof. B.N. Saraswati, Indira Gandhi National Centre for Arts, New Delhi on The Sacred Science of Nature (a series of three lectures).

Attended :

(i) Prof. P.K. Misra presented a paper 'Development Problems and Traditional Cultures : Reflections on the Management of the Aged in India - A Case for Human Development' in a UNESCO Workshop on *Information Model for Integration of Endogenous Cultural Dimensions into Development*, organised by the Indira Gandhi National Centre for the Arts, New Delhi. He also presented a paper 'Notes on Family and Marriage in the 20th Century India', in an International Workshop on *Families in Cross-Cultural Comparisons (20th Century) : Traditions - Problems and Perspectives*, organised by the University of Vienna and the University of Salzburg, at Salzburg, Austria.

(ii) Prof. A.K. Ghosh delivered the Platinum Jubilee Lecture on 'Thalassaemia : Some Bio-Social Problems' at 83rd Indian Science Congress held at Patiala. He delivered a talk on 'Thalassaemia and Public Awareness' at the Philosophy Department, NEHU. At the Anthropological Survey of India he gave a lecture on 'Genetics of Thalassaemia'.

(iii) Dr.R.K. Pathak attended the 83rd Indian Science Congress at Punjab University, Patiala. He also attended the Golden Jubilee Celebration Seminar of the Anthropological Survey of India at Patiala.

(iv) Dr.T.B. Subba presented a paper on 'Social Transformation Eastern and North-Eastern India' : A review Essay, in a seminar on *Social Transformation in East and North-East India*, organised by the North Bengal University. He presented a paper 'Ethnicity, Culture, and Nationalism in North-Eastern India' : A Conspectus in a seminar on Ethnicity, Culture, and Nationalism : Problems in the context of North-Eastern India organised by NEHU. He delivered a talk on 'Post Modernism in Anthropology' at the Anthropological Survey of India, Shillong and also at the Department of Philosophy, NEHU. He gave lectures on 'The Concept of Social Action', 'Symbolic Interactionism', and 'Structural Functionalism' in an *Inter-Disciplinary Workshop* organised by the Department of Philosophy, NEHU.

(v) Dr. Lucy T.V. Zehol participated in a *Workshop Methodology and Philosophy of Social Sciences* organised by the Department of Philosophy. She presented a paper 'Women and Education. Some Observations' in a Workshop organised by the *Khezakhen Student Union*, Nagaland. She read a paper on 'Role of the Youths in the Naga Society' in a seminar organised by the *Christian Youth Endeavour*, Khezakhen Village, Nagaland.

(vi) Ms.V. Pakyntein presented a paper 'Cultural Dimensions of Drinking Water in Shillong and its Periphery' in a *Conference on Drinking Water in Shillong and its Periphery* organised by NERCSSR, Shillong. She participated as a rappporteur in *Sub-Regional Workshop on Panchayati Raj* organised by NERC-ICSSR, Shillong. She also participated in a *Workshop on Methodology and Philosophy of Social Sciences* organised by the Department of Philosophy, NEHU.

Publications :

Misra, P.K. : "Book Review of Susanne Thorbek, Gender and Slum Cultures in Urban Asia" in the *Eastern Anthropologist*, Vol.48, No.1, 1995.

Misra, P.K. : "Book Review of Mrinal Miri (ed.), Continuity and change in Tribal Society" in the *Journal of the Indian Anthropological Society*, Vol.30, No.1, 1995.

Pathak, R.K. : "Stature, Weight, and Menarche in Adolescent Khasi Girls of Shillong" in the *Journal of Anthropological Society of Manipur*, Vol.II, 1995.

Pakyntein, V. : "The Khasi Clan: Changing Religions and its Effect" in J.B. Bhandari (ed.), *Kinship and Family in the North East*, Delhi: Cosmo Publications, 1996.

Thrust Areas of Research :

1. Growth, Adaptation and Population Genetics.
2. Culture, Development and Ethnicity.
3. Women Studies, Matriliney and Urbanisation.
4. Indian Diaspora.
5. Environment Conservation.

Research Programmes/Research Project :

(i) Dr.T.B. Subba completed and submitted the report of a project on 'Riots affected Children of Meghalaya' sponsored by the Ministry of Welfare, Govt.of India, New Delhi.

(ii) Prof.A.K. Ghosh and Dr.T.B. Subba are engaged in a project on 'Demographic, Biological and Cultural Proximates of Health and Disease in Arunachal Pradesh' sponsored by the G.B. Pant Institute of Himalayan Environment and Development, Almora, U.P.

DEPARTMENT OF GEOGRAPHY

The year 1994-95 has been a very fruitful and productive year for the Department of geography: 30 M.Sc graduates, 12 M.Phil and 10 Ph.D. students received their degrees. In addition three books were published by our faculty during this period.

Head: Prof. R Gopalakrishnan

Faculty

Name	Designation
R.K. Rai, Ph.D (SAUG)	Professor
R. Gopalakrishnan, Ph.D (JNU)	Professor
A.C. Mohapatra, Ph.D (NEHU)	Professor
Ali Ahmad, Ph.D (JNU)	Reader
S. Singh, Ph.D (JNU)	Reader
B.S. Mipun, Ph.D (NEHU)	Reader
B.S. Butola, Ph.D (JNU)	Reader
D.K. Nayak, Ph.D (JNU)	Reader
P.G. Momin, M.Phil (NEHU)	Lecturer
H.G. Syiemlieh, M. Phil (NEHU)	Lecturer

Students Intake:

(i) M.Sc in Geography	30
M.Phil	12
Ph.D	14

(ii) Actual Intake & Break up :-

	SC/ST	General	Male	Female	Total
M.Sc	20	10	16	14	30
M.Phil	7	5	7	5	12
Ph.D	5	9	8	6	14

Courses conducted :

The department organised a Refresher course for college teachers as follows:

1. March 8th to 28th March 1995. Environmental issue in Geography.

Seminar/Conference attended:

Dr. D.K. Nayak:

a) Seminar on " Rural Development in N.E. India Spatial patterns Dynamics and planning strategy" from 8-9 April 1995, held at the Deptt. of Geography, Gauhati University, Guwahati. Title of the paper presented: " Socio-Economic and demographic changes in Down stream Areas of Uamiam Hydel Project".

b) International seminar on " Culture, Resources and natural Hazards "organised by the Dept. of Geography, Utkal University, Bhubaneswar, sept. 21-23, 1995. Title of the paper presented " Female Work - Participation in Eco-Region of India - A cross-cultural

study".

Mr. P. G. Momin:

Attended consultation committee meeting for NE region of the National Afforestation and Eco-Development (NAEB) Shillong w.e.f. 26-27 April 1995.

Seminar on " Rural Development in NE India: Spatial Patterns; Dynamics and planning strategy, 8-9 April 1995, Deptt. of Geography, Gauhati University: Title of the paper presented: "Friends in Agriculture development in West Garo Hills".

Dr. B.S. Butola:

Methodology in Social Science Research (work shop) Deptt. of Philosophy NEHU, Shillong. "Urbanisation, Structural Adjustment and women in NE Region" Women College, Shillong, Dec, 1995.

Prof. R.K. Rai:

1. Geo-hazards zonation - A case history from Umiyam Basin, Meghalaya, India (with M. Agarwal). Published in proceedings of the eleventh National Convention of Environmental Engineers and seminar on Environmental Control, Technology, Advance law, and international seminar on " Culture resources and natural Hazards " organised by Deptt of Geography, Utkal University, Bhubaneswar, Sept, 21-23, 1995,. Title of the paper presented "Female work participation in Eco-Regions of India - A cross cultural study". Awareness to curb psudvism held on 10-11 Nov, 1995 at the University of Roorkee, Roorkee.

Environmental Management and Development policies. Hill Geographer Vol. XI Number 1 & 2 1995. Geographical society of the North Eastern Hill Region, India, Shillong. Attended IAG south east Asia conference in Singapore from 18-13 June 1995 and presented a paper "Coal Mining and Environmental degradation in Meghalaya".

Delivered lectures at a refresher course at Burdwan University, Burdwan.

Publications:

Prof. R. Gopalkrishnan:

1. Insurgent North Eastern India, Vikas, New Delhi, 1995.
2. North-East - Land, Economy and People Har Anand, (Revised), New Delhi, 1995.

Dr.D.K. Nayak:

1) "Pattern of urbanization in the North-East" in JB Ganguly edited Urbanization and Development in North East India, Deep and deep, New Delhi, 1995, (With Shikha Chakraborty and S. Chakraborty)

2) "Peripheral urban development: An analitical model with special reference to Shillong in J.B. Ganguly edited. Urbanization and development in North- east India, Deep and Deep, New Delhi, 1995, (with N Chakraborty and A C Mohapatra.)

3) : "Process of Urbanization in Meghalaya: Evidence of Rural to Urban Migration: in JB Ganguly edited Urbanization and development in North east India Deep and Deep, New Delhi, 1995 (with DD Nengong and AC Mohapatra)

Seminars Attended:

Prof. A.C. Mohapatra:

April, 5 1995; Participated in Seminar on Environmental Education organised by DCB Girls College Jorhat invited for Keynote address on the theme "Environmental Education". July 6-8 1995; participated in International seminar on "Marketing & Development organised by the Department of Economics, Saitama University, Japan and presented paper on "Marketing, Global Integration and Development. Scenario for Developing Economies with special Reference to India" (Proc. under publication).

November 21, 1995, Participated in Seminar on "Small towns in NE India" Organised by NEI council for Social Science Research and presented a paper on "Urban Poverty and the Small towns: A case study of Tura Town of Meghalaya". (With Susmita Das)

Study Tour/Field Tour :

M.A./M.Sc II semester students visited south India in connection with the field excursion.

Thrust Area of Research :

The Department has identified environmental Geography with special reference to North east India as its main thrust area of research and studies for the 8th and 9th Five year plans as perspective for the department.

IV

SCHOOL OF LIFE SCIENCES

The School of Life Sciences came into existence in 1974 with the establishment of the Departments of Botany and Zoology. Later on, in 1982 the Department of Biochemistry was opened and subsequently, the Centre for Eco-Development was established. More recently, the Department of Forestry has been included with the School of Life Sciences. The School is located at the Permanent Campus and its premises are surrounded by lush green pine forest making it welcoming and attractive.

There is a wide range of courses available which are constantly revised and reviewed. These are based upon a modern approach incorporating pure and applied aspects as well as recent developments. Biology is among the most rapidly changing and innovative discipline in the Sciences with important advances in ecology and ecosystem dynamics, biotechnology, genetic engineering, immunology, molecular and cell biology, microbiology, physiology, experimental morphology and developmental biology. Advances in these areas have profound implications for society in medicine, health care, environmental management, forestry and agriculture. The courses in the School of Life Sciences are taught by competent faculty members, a few of them commanding international reputation in their chosen area of specialization. The School provides good facilities and equipments needed for these specialized courses. At present, over forty research scholars are working for their M.Phil. and Ph.D. degree.

There are close links between teaching and research. The methods of teaching employed include formal lectures, weekly seminars, discussions, laboratory classes and supervised projects. The balance between these, varies with individual programmes. A number of programmes also include field work. The proximity of wide range of natural environments and varied habitats as well as extremely rich biodiversity of the region offer unique opportunity for taxonomic and ecological studies.

There is a wide range of expertise available in the Department and a large number of major research projects are being supported by various national and international funding agencies. The researches carried out in the School have been published in highly reputed international journals. The two Department of the School viz., Botany and Zoology are covered under the Special Assistance Programme (SAP) of the UGC.

DEPARTMENT OF BOTANY

The Department is actively involved in teaching and research in priority areas of regional and national importance. Keeping the regional relevance in view, Forest Biology was identified as the thrust area since its inception in 1974. The Department ever since has made valuable contribution in the field of Forest Biology and allied disciplines. The teaching programme of the Department has been so developed during the last two decades that students passing out from here are successfully serving the region and other parts of the country in various capacities.

The Department is covered under SAP of U.G.C. In view of its research contributions, U.G.C. has recognised Ecology - Higher Plant Ecology and Microbial Ecology as thrust area under SAP. Other major areas of research in which the Department has made notable contributions are Plant Physiology, Experimental Morphology, Cytogenetics and Plant Taxonomy. Research papers related to all these areas have found place in prestigious national and international journals.

In order to improve the teaching standards in Colleges and Universities of the region, the Department is regularly conducting U.G.C. refresher courses. During 1995-96 alone about 60 lecturers from different states of North-Eastern Region successfully completed the three refresher courses organised by the Department.

Head : 1. Professor P. Tandon upto 18.12.95
2. Professor R.R.Mishra w.e.f.19.12.1995.

Faculty :-

Name	Designation
R.R.Mishra, M.Sc.(BHU), Ph.D.	Professor
R.S.Tripathi, M.Sc.(Agra), Ph.D.(BHU)	Professor
Y.S.Chauhan, M.Sc.(Agra), Ph.D.(Agra)	Professor
P Tandon, M.Sc.(Lucknow) Ph.D.(Jodhpur)	Professor
H.N.Pandey, M.Sc.(BHU), Ph.D.(BHU)	Reader
G.D.Sharma, M.Sc.(Meerut), Ph.D.(NEHU)	Reader
R.C.Laloo, M.Sc.(Gau), Ph.D.(Gau) (On leave)	Reader
A.K. Misra, M.Sc.(Meerut) Ph.D.(Meerut)	Reader
N.K.Chrungoo, M.Sc.(Kashmir)	Reader

Ph.D.(Kashmir)	
(Miss) M.S. Dkhar, M.Sc.(NEHU)	Reader
Ph.D.(NEHU)	
Y. Kumar , M.Sc.(Agra)	Lecturer
Ph.D.(NEHU)	
L. Kharlukhi, M.Sc.(NEHU)	Lecturer
Ph.D.(IARI)	
N. Venugopal, M.Sc.(Madras)	Lecturer
Ph.D.(Madras)	

Student Intake:

(i) Enrolment Capacity :

M.Sc	- 20
Ph.D	Not fixed.

(ii) Actual admission :

	SC		ST		General		Total
	Male	Female	Male	Female	Male	Female	
M.Sc.	-	-	9	5	3	2	19
Ph.D.	-	-	2	3	6	3	14

Degree Awarded :

1. Mahendra Pradhan, " Studies on Interaction between vamm Fungi and *Frankia* in Non-Leguminous tree Species (ALNUS Sp.) of North East India". Supervisor : Professor R. R. Mishra & Dr. G.D.Sharma.

2. Tariang Lyngdoh , "Community Dynamics and Edaphic changes in relation to coal mining in Jaintia Hills, Meghalaya". Supervisor : Professor R.S.Tripathi.

3. Shashi Corrie, "Studies on Encapsulation of Protocorm like bodies of *Cymbidium giganteum* gall, with special reference to storage, germination and growth behaviour. Supervisor : Professor P.Tandon.

4. Abha Sharma, "Clonal multiplication and establishment of *Dendrobium wardianum* Warner : Some aspects of Physico - chemical requirements, Nitrogen metabolism and preservation". Supervisor : Professor P. Tandon.

5. Debashish Dutta, "An analysis of nodule population dynamics in white clover (*Trifolium repens* L.) Under different ecological conditions". Supervisor : Professor R.S. Tripathi.

6. C.S. Rao, " Eco-physiological studies on productivity of ectomycorrhizae in *Pinus kesiya* (Royle ex Gordon)". Supervisor : Dr. G. D. Sharma.

Course conducted:

I. M.Sc. Course :

Core Papers:

Algae, Bryophyta and Pteridophyta, Gymnosperms and Plant Anatomy, Mycology and Plant Pathology, Plant Taxonomy and Phytogeography, Microbiology, Plant Biochemistry and Molecular Biology, Genetics and Plant Breeding, Population and Community Ecology, Plant Physiology, Morphology, Embryology and Differentiation, Ecosystem Analysis and Biostatistics.

Special Papers:

Plant Biotechnology, Microbial Ecology, Ecology and Management of Forest Ecosystem, Radiation Botany, Ecology and Physiology of Algae, Protein Chemistry, Physiology of Plant Growth and Development, Applied Cell and Molecular Genetics, Angiospermic Taxonomy.

II. M.Phil/ Pre-Ph.D. Course :

Analysis of Forest Ecosystem, Dynamics and Regulation of Plant Population, Microbial Ecology, Plant Pathology, Ecology and Control of Soil Borne Pathogen, Microbiology of Roots and its Environment, Experimental Morphology, Systematic Botany, The Control of Growth and Differentiation in Plants, Algal Ecology and Physiology, Molecular and Hormonal Basis of Plant Growth Regulation, Ecology of Successional Plant Communities, Molecular Basis of Cell- Structure and Function, Genetics.

School Level Course: Techniques in Microbiology.

Seminar/ Conference/ Symposia/ Extension Programmes:

1. Prof. R.S. Tripathi:

(i) Attended the 7th European Ecological Congress(EURECO'95 on " Ecological Processes : Current Status and Perspective" held at Budapest during August 20-25 , 1995 and delivered an invited talk on " Tree regeneration in a disturbed subtropical humid forest ecosystem". He also presented two research papers:

(a) Population dynamics of different seedling cohorts of *Polygonum alatum* and *Spergula arvensis* in crop fields under Jhum (slash and burn agriculture) and terrace cultivation.

(b) Effect of disturbance on seed production, germination and seedling population density of tree species in a subtropical humid forest.

During his trip to Europe, he visited Imperial College at Silwood Park (University of London) and Rothamsted, Experimental Station at Harpenden during August 26 to September 4, 1995 and had a fruitful interaction with scientists there.

(ii) Served as the Recorder of the Botany Section at the 83rd session of the Indian Science Congress Association held at Punjab University, Patiala during January 3-9, 1996.

(iii) Delivered the keynote address on " Sustainable Environmental Management

and Accountability" in the 83rd session of Indian Science Congress Association at Patiala, Punjab.

(iv) Organised a Workshop -cum Training Programme on "Joint Forest Management" at Agartala during 15-16, March, 1996 in collaboration with Tripura State Forest Department.

(v) Organised a workshop- cum Training Programme on "Microplanning and Joint Forest Management" at Burnihat during March 26-27, 1996 in collaboration with Assam State Forest Department.

Prof. P. Tandon:

Delivered invited lecture on "Biotechnology in improvement of forest species" During the short- term training programme at Assam Agricultural University, Jorhat on the 16th November, 1995 organised by Govt. of India.

Dr. H.N. Pandey:

Attended workshop on "Himalayan Eco-development and Natural Disaster Reduction" organised by National Centre for Disaster Management, New Delhi during November 27-28, 1995. Dr Pandey also presented a paper entitled "Natural disaster and eco-development in north east India".

Dr. G.D. Sharma:

(i) Delivered a lecture on "Mycorrhizal Technology for Forestry Development" on 16.11.1995 during the short- term course on Biotechnology organised by Assam Agricultural University, Jorhat.

(ii) Presented a paper on "The functioning of forest ecosystem as influenced by Natural disaster" in the workshop on Eco-development and natural Disaster Management, organised by IIPA, New Delhi from November 27-28, 1995 and acted as Rapporteur in the session.

(iii) Chaired the technical session in the International symposium on Microbial exploitation organised by Banaras Hindu University, Varanasi from March 13-16, 1996 and delivered a lecture on "Frankial Symbiosis".

Dr. A.K. Misra:

Presented a paper entitled "Molecular diversity in *Alnus nepalensis* compatible *Frankia* in India" at the X international conference on *Frankia* and Actinorrhizal plants, held at University of California, Davis, USA from 6-11 August, 1995.

Dr. Y Kumar:

Attended the Indo- British workshop on "Biodiversity Conservation and Evaluation" during February 1996 at TBGRI, Thiruvananthapuram, sponsored by British Council.

Visiting Professor/ Fellows:

Professor S.C.Pandeya formerly of Rajkot University, Gujrat visited the Department and delivered a series of talks on the "Ecosystems and Degradation" from 27-28, March 1996, under SAP (UGC) programme.

List of Publications:

1. Arunachalam, A., Pandey, H.N., Tripathi, R.S. and Maithani, K. "Biomass and production of fine and coarse roots during regrowth of a disturbed subtropical humid forest in north-east India". *Vegetatio* 123:73-80 (1996).
2. Barik, S.K., Rao, P., Tripathi, R.S. and Pandey H N. "Dynamics of tree seedling populations in a humid subtropical forest of North East India as related to disturbance". *Canadian Journal of Forest Research* 26 (4): 584 - 589 (1996).
3. Chauhan, Y.S. and Pandey, A.K. (ed.) *Advances in Plant Reproductive Biology* Vol. I. Narendra Publishing House, Delhi (1995).
4. Chauhan, Y.S. "Stylar heteromorphism in *Solanum* (Solanaceae): an expression of andromonoecy" in : Chauhan, Y.S. and Pandey, A.K. (Ed.) *Advances in Plant Reproductive Biology* Vol. I pp.79-90. Narendra Publishing House, Delhi (1995).
5. Chhetry, G.K.N., Sharma, G.D. and Mishra, R.R. "Effects of fungicides on the phytoplane mycoflora of french bean". *Advances in Plant Science* 10 : 121- 125 (1995).
6. Kumar, A. and Tandon, P. "Caulogenesis in cultures of needles of *Pinus kesiya* Royle ex Gord." *Proc. natl. Acad. Sci.* 62(1) : 67-71 (1995).
7. Kumar, A. and Tandon, P. "In vitro propagation of *Pinus kesiya* Royle ex Gord". in Tandon, P. (ed.) *Advances in Plant Tissue Culture in India* pp. 200-205, Pragati Prakashan, Meerut (1995).
8. Kumar, R.N. and Mishra, R.R. "Qualitative and quantitative analysis of leaf leachates and leaf extracts in relation to brown spot disease resistance in paddy". *Acta Botanica Indica* 22: 21-25 (1994).
9. Kumar, Y. and Sharma, J. "Orchids of north-east India: Innocent past and promising future" in : Manilal, K.S. and Pandey, A.K. (ed.) *Taxonomy and Plant Conservation* pp. 59-64, CBS, New Delhi (1995).
10. Kumaria, S. and Tandon, P. "Clonal propagation and establishment of plantlets of *Dendrobium fimbriatum* var. *oculatum* H.K.F.", in : Tandon, P.(ed.) *Advances in Plant Tissue Culture in India* pp. 218-231, Pragati Prakashan, Meerut (1995).
11. Misra, A.K. "Molecular phylogeny of the genus *Frankia* and related genera and amendment of the family Frankiaceae". *Interl. J. Syst. & Bacteriology* 46 (1): 1-9 (1996).
12. Misra, J., Pandey, H.N., Tripathi, R.S. and Sahoo, U.K. "Dynamics of buried seed population and seedlings cohorts of two dominant weeds in a hill agro-ecosystem of the humid subtropics of India". *Researches on Population Ecology* 37(1) : 1-7 (1995).
13. Rajee, A.L.S. and Tandon, P. "Oxidative enzymes and phenols as related to *Schima khasiana* Dyer. normal and gall tissues both in-vivo and in vitro", in : Tandon, P. (ed.) *Advances in Plant Tissue culture in India*, pp. 271-284, Pragati Prakashan, Meerut, 1995.
14. Rao, C.S., Sharma, G.D. and Shukla, A.K. "Spatial variation of microbes and their activity with different age groups of pine in subtropical forest soils". *Jour. Soil. Biol. Ecol.*

14:171-175 (1995).

15. Rathore, T.S. and Tandon, P. "Mass clonal propagation of the threatened Indian insectivorous Plant (*Nepenthes khasiana* H.K.F.) through shoot bud culture", in : Tandon, P. (Ed). *Advances in Plant Tissue Culture in India*, pp. 185-192, Pragati Prakashan, Meerut (1995).

16. Sahoo, U.K., Tripathi, R.S., Pandey, H.N. and Misra, J. "Viable buried weed seed population and weed infestation as influenced by farmyard manure in hill agro-ecosystem of Meghalaya". *J. Indian Bot. Soc.* 75: 1-7 (1995).

17. Sahoo, U.K., Tripathi, R.S., and Pandey, H.N. "Dynamics of buried weed seed population in hill agroecosystems of Meghalaya, India". In: Bellan-Santini, D., Bonin, G. and Enaig, C. (Eds.) *Functioning and dynamics of natural and perturbed ecosystems* pp. 303-309, Lavoisier Publishing, Paris (1995).

18. Sharma, G.D., Mishra, R.R. and Kshattriya, S. "Fungal and litter decomposition in the tropics", in : Reddy, V.(ed.). *Soil Organisms and Litter Decomposition in the Tropics*, pp. 39-57, Oxford & IBH, India (1995).

19. Shukla, A.K. and Mishra, R.R. "Succession of fungal communities of decomposing litter of potato under field condition". *J. Soil Biol. Ecol.* 15 : 20-26 (1995).

20. Shukla, A.K., Rajkumar, Sharma, G.D. and Mishra, R.R. "Influence of fungicides on mycorrhizal association seedlings growth and enzyme activities in root region of *Pinus kesiya* seedlings". *J. Soil Biol. Ecol.* 15: 27-34 (1995).

21. Tandon, P. (Ed.). *Advances in Plant Tissue Culture in India*. Pragati Prakashan, Meerut (1995).

22. Tiwari, S.C., Tiwari, B.K. and Mishra, R.R. "Succession of microfungi associated with decomposing litters of pineapple *Ananas comosus*". *Pedobiologia* 38 : 185-192 (1994).

23. Tiwari, S.C. and Mishra, R.R. "Seasonal variation in dehydrogenase and urease activity in hilly soils under grassland and forests". *J. Indian Soc. Soil Sci.* 43 : 689-690 (1995).

24. Tiwari, S.C. and Mishra, R.R. Effect of *Boletus edulis*, *Laccaria laccata*, *Psilocybe tinctorius* and *Rizopogon leteolus* on growth performance of *Pinus Kesiya* Royle ex. Gord. in north-eastern India". *Indian Journal of Forestry* 18 : 293-300 (1995).

Study Tour/ Field Trips :-

A field- cum-study tour of M.Sc. III Semester students was conducted between October 12-21, 1995 to provide them with the practical knowledge of the forest community composition of different climatic zones of Bhutan, Sikkim, and Darjeeling. Dr. G.D. Sharma, Dr. A.L.S. Rajee and Prof. P. Tandon accompanied the students.

Thrust area of Research:- Forest Biology.

Research Programme / Research Projects:

On Going Research Projects : Ten

Honours / Awards etc:

1. Prof. R.S. Tripathi was nominated by the National Afforestation and Eco Development Board, Ministry of Environment and Forest, Government of India as Co-ordinator of the regional Centre at NEHU.

2. Prof. R.S. Tripathi was invited by the Indian Institute of Remote Sensing, at Dehra-Dun to participate in an advisory capacity in the ISRO- Geosphere Biosphere Programme of the Department of Space, Govt. of India, on "Land dynamics and its impact on ecosystem composition - A predictive analysis".

3. Prof. R.S. Tripathi was nominated to the "Consultative Committee for Science Departments" of Assam University, Silchar.

4. Prof. P. Tandon received Japanese Government Research Award for foreign specialist administered by Science & Technology Agency, Prime Minister's Office, Govt. of Japan.

DEPARTMENT OF BIOCHEMISTRY

This Department started in 1982 with the aim to produce highly skilled technical personnel and researchers in multi-disciplinary area of biochemistry who could represent their valuable services to the people of this region and improve the quality of life. Since its inception this department has offered courses like M.Sc. (Biochemistry) and M.Phil./Ph.D. programmes to meet its aim and deal with various challenging and fundamental problems of biology and medicine in more than one way.

The main areas in which the department is conducting research are Enzymology, Protein Chemistry, Medical Biochemistry, Immunology, Radiation and Molecular Biology, Betel-nut Carcinogenesis, Drug Delivery System, High Altitude Adaptation and Nitrogen Fixation. Our M.Sc./research students compete successfully at National Entrance Test (NET) and GATE every year. Many M.Sc./M.Phil students of this department have placement in several important institutions of higher learning in India and abroad. Beside this, a number of national and international collaborative research programmes have been established by the faculty members of this department. Various funding agencies in India like DST, CSIR and UGC have regularly funded research projects in this department.

This department has also contributed exceptionally good research publications in highly reputed international journals and the faculty have also authored/edited a few books and have contributed several book chapters.

Head : Dr R Sharma

Faculty :

Name	Designation
R Lalthantluanga, M.Sc.,Ph.D.(Poona)	Professor
A N Rai, M.Sc., (BHU), Ph.D. (Dundee)	Professor
R Sharma, M.Sc.,Ph.D.(BHU)	Reader
R N Sharan, M.Sc.,Ph.D.(JNU)	Reader
A Alam, M.Sc., (AMU), Ph.D.(Moscow)	Lecturer

Student intake :

M.Sc. M.Phil./Ph.D.

(a) Enrolment capacity : 10 Open

(b) Actual admission :

	SC	ST	Genl	Male	Female	Total
M.Sc.	1	8	8	6	11	17
Ph.D.	0	5	6	4	7	11

Courses conducted :

Chemistry, Introductory Biochemistry, Biostatistics, Enzymology, Biochemistry practicals, Genetics, Medical Biochemistry, Biosynthetic Pathways, Techniques in Biochemistry, Physiological Chemistry, Bioenergetic pathways, Molecular Biology, Microbiology and Immunology, and Special paper on Nitrogen Fixation.

Seminars/Conferences/Symposia/Extension programmes :

Attended :

Prof.A.N.Rai visited CAS in Botany,BHU under NEHU Academic Exchange Programme (Dec.95 to Feb. 1996)

Dr. R Sharma attended the 64th meeting of SBC,Lucknow,Oct. 6-8,1995, and presented a paper titled "CAMP as a tissue specific inducer of adenosine deaminase in mice". He also attended the Symposium on Frontier Topics in Biochem and Mol. Biol., BHU,Varanasi,Feb. 9-11, 1996 and presented a paper titled "Studies on buffalo plasma fibronectin".

Dr.R.N.Sharan visited KFA, Jeulich under Indo-German R&D Cooperation Programme (Aug.15-30,1995). He also participated in the 10th International Congress of Radiation Research,Wurzburg (Germany), Aug.31-Sept.3,1995 and presented a paper titled "Poly-ADP-ribosylation during induced carcinogenesis in mice". He also delivered an invited talk titled "Radiation induced alteration of poly-ADP-ribosylation in mammalian cells : Neutron and alpha radiations show enhanced effect" in a symposium on Current trends in heavy

ion radiation biology and radiation chemistry, NSC, New Delhi, Nov., 1995. Further, he participated in the International Symposium on Radiomodifiers in Human Health, Manipal, Dec. 27-31, 1995 and delivered an invited talk "Liposome mediated delivery of MPG and AK-2123 show enhanced effectivity in mice : Possible implications in Radiotherapy".

Ms. S. Chakraborty (title of paper : In vivo radioprotection by liposome encapsulated 2-mercaptopropionylglycine) and Ms. T. Pariat (title of paper : Qualitative changes of high mobility group (HMG) proteins during early stages of carcinogenesis), Research Scholars, participated and presented a paper each in the 10th International Congress of Radiation Research, Wurzburg, Germany.

Visiting Professors/Fellows :

Professor H.N. Singh (Hyderabad University) (September 1995 -date)

Publications :

1. Sharan, R.N., Alam, A., Chakraborty, S.J.R. and Srivastava, P.N. "2-mercaptopropionylglycine affords enhanced radioprotection after liposome encapsulation" J. Radiat. Res. 36: 31-37 (1995).

2. Pariat, T. and Sharan, R. N. "Low-dose exposure of diethylnitrosamine affects mice liver thymidine kinase" Life Sci. 57 : 2431-2437 (1995).

3. Schneeweiss, F. H. A., Sharan, R.N. and Feinendegen, L. E. "Change of ADP-ribosylation in human kidney T1-cells by various external stimuli" Ind. J. Biochem. Biophys. 32 : 119-124 (1995).

4. Schneeweiss, F. H. A., Sharan, R.N., Hautzel, H., Rub, Th. and Muller-Gartner, H.W. "Effect of ionizing radiation on the conversion factor between deoxyglucose and glucose (lumped constant) in human glioblastoma cells in vitro" J. Nuc. Med. 36 : 202-203 (1995).

5. Borbhuiya, M.A. and Sharma, R. "Postnatal changes in kidney glucocorticoid receptor of mice" Ind. J. Biochem. Biophys. 32 : 125-129 (1995).

6. Singh, L.S. and Sharma, R. "Developmental expression and corticosteronal inhibition of adenosine deaminase activity in different tissues of mice" Mech. Ageing Dev. 80 : 85-92 (1995).

7. Borbhuiya, M.A. and Sharma, R. "Regulation of hepatic glucocorticoid receptor during development of mice" Biochem. Mol. Biol. Intl. 37 : 645-652 (1995).

8. Janson, S., Rai, A.N. and Gergman, B. "Intracellular cyanobiont *Richelia intracellularis* ultrastructure and immuno-localization of phycoerythrin, nitrogenase, Rubisco and glutamine synthetase" Marine Biology 124 : 1-8 (1995).

Thrust area of research :

Enzymology, Medical Biochemistry, Nitrogen Fixation, Protein Chemistry, Betel-nut Carcinogenesis and Drug Delivery System.

Research programmes/research projects :(under taken during the year under review) :

On going Research Projects : One

New Research projects :

Indo-German R&D Cooperation Programme funded project to Dr.R.N.Sharan : Elucidation of radiation damages at molecular level (Approx. Rs. 16 lakhs as equipment grant + Personnels).

Any other remarks :

(A) Professor A.N.Rai served as resource persons for (1) EM workshop, RSIC, NEHU and (2) Refresher Course, Bot.Dep., NEHU.

(B) Dr.R.Sharma served as resource person for (1) Refresher course, Zoo .Dept, NEHU and (2) Refresher course, Bot.Dept., NEHU.

(C) Dr.A.Alam served as resource person for (1) Advance courses in Zoology, Gauhati University and (2) Refresher course, Bot. Dept., NEHU.

CENTRE FOR ECO-DEVELOPMENT

The Centre focusses on the environmental problems and sustainable development of the region. It organises Workshops from time to time, and produces literature relevant to environmental and ecological issues.

Head

Dr. B.K. Tiwari upto June 30, 1995.

Prof. R.S. Tripathy w.e.f. February 15, 1996.

Faculty :

Name

Designation

B.K. Tiwari, M.Sc.(Gorakhpur)
Ph.D.(NEHU)

Reader

Student intake :

One Ph.D. scholar is working under the joint supervision of Dr.B.K.Tiwari and Professor R.S.Tripathy of Botany Department.

Courses offered :

The Centre offers an optional paper entitled "Environmental impact assessment

methods" which is of an interdisciplinary nature.

Seminars/Conferences/Symposia/Extension/Programmes :

Organised :

1. Workshop-cum-training programme on 'Joint Forest Management' at Agartala during 15 - 16 March, 1996 in collaboration with NEHU Regional Centre of NAEB and Tripura State Forest Department.

2. Workshop-cum-training programme on 'Microplanning and Joint Forest Management' during March 26 - 27, 1996 in collaboration with NEHU Regional Centre of NAEB and Assam State Forest Department.

Publications :

1. Barik, S.K., Tripathy, R.S. and Tiwari, B.K. - A report on the success of afforestation and tree planting activities undertaken during 1993-94 in West Garo Hills, South Manipur, Sibsagar and Dibang Valley districts of North Eastern India. pp. 1-61, Report submitted to NAEB, Ministry of Environment and Forest, Government of India (1995).

2. Barik, S.K., Tiwari, B.K. and Tripathy, R.S. Broomstick plantation in Meghalaya: a success story, pp.1- 20, Report submitted to NAEB, Ministry of Environment and Forest, Government of India (1995).

3. Tiwari, B.K., Tripathy, R.S. and Barik, S.K. Ecological and economic assessment of JFM system in North- Eastern India with special reference to Tripura, pp. 1 - 46, Report submitted to SPWD, New Delhi and the NAEB, Ministry of Environment and Forest, Government of India (1996).

Thrust Area of Research :

Studies pertaining to environmental problems of the North-Eastern Hill region.

Research programmes :

1. The Centre is actively involved in various activities undertaken by the Regional Centre, National Afforestation and Eco-Development Board, Ministry of Environment and Forest, Government of India.

2. "Ecological and Economic assessment of JFM system in North Eastern India with special reference to Tripura" funded by Ford Foundation - SPWD, New Delhi.

Dr B.K.Tiwari - Principal Investigator

Professor R.S.Tripathy - Co-investigator.

Any other remarks :

Dr. B.K. Tiwari was awarded Rothamsted International Fellowship and is on study leave for one year to pursue higher research at the Institute of Arable Crop Research, Harpenden, Herts, U.K.

DEPARTMENT OF FORESTRY AIZAWL

The Department of Forestry came into existence in August, 1990. At present the Department is conducting research and extension programme to tackle the problems associated with hill farming system of Mizoram.

Head : Professor L.K.Jha.

Faculty :

Name	Designation
L.K. Jha, M.Sc (BHAGL) Ph.D.(LNM Univ).	Professor

Student intake :

M.Sc. - Nil
Ph.D. - 8 (Admitted in 1995 session)

Publications :

Books :

1. Jha, L.K. *Advance in Agroforestry*, APH Publishing Corporation, New Delhi, pp.690.(1995).
2. Jha, L.K. and Sen, Sarma, P.K. (Eds) *A Manual of Forestry Extension Education*, APH Publishing Corporation, New Delhi, pp.425, (1996).

Papers :

1. Jha, L.K. Social dynamics of deforestation in Mizoram: an over view in : Prasad, R.N.and Agarwal,A.K.(eds), *Landmarks: A studyof Public Administration in Mizoram*,pp.370-402, IIPA, New Delhi (1996).
2. Jha, L.K. and Jha,A.K. Planning for rural transformation: An integrated approach, in : Jha L.K. and Sen Sarma P K (eds), *A Manual of Forestry Extension Education*, pp. 259 -274, APH Publishing Corporation, New Delhi,(1996).
3. Sen Sarma, P.K. and Jha, L.K. Propagation techniques for forest trees, in: Jha,L.K. and Sen Sarma, P.K. (Eds) *A Manual of Forestry Extension Education*, pp.275-332, APH Publishing Corporation, New Delhi (1996).
4. Jha, L.K. Roy, P., and Sen Sarma, P.K. Learning in groups, in: Jha, L.K.and Sen Sarma, P.K. (Eds), *A Manual of Forestry Extension Education*, pp. 75-90 APH Publishing Corporation, New Delhi, (1996).

Area of Research:

Sustainable Hill Farming System, Ethnobotany, Estimation of biophysical problems associated with Hill Farming System.

Research Projects, if any : On going research project : one

Any other remarks :

Under extension programme Department participated in the Farmers Exhibition, 1995 organised by Government of Mizoram, Aizawl on 14-16, December., 1995. The model 'ZOTECH'(Jha's Tree-Greenhedge-crop farming system) was presented in the Farmers exhibition.

The model was appreciated by the Directorate of Agriculture, Government of Mizoram, Directorate of Soil Conservation, Government of Mizoram and All Mizoram Farmer's Union. Directorate of Soil Conservation, Government of Mizoram intends to try Tree-Greenhedge-crop farming system (ZOTECH) in five villages of Mizoram.

DEPARTMENT OF ZOOLOGY

The department of Zoology was established in 1974 with limited number of Faculty and facilities. In the last two decades, this department has made all round progress and acquired a position among the leading departments of NEHU and other Universities of India. It offers specializations in all major disciplines of Zoology. The department has been granted the second phase of DRS project under Special Assistance Programme by the University Grants Commission to undertake advanced research work in the leading branches of Zoology. For the last many years, the department has been selected as a centre of excellence for conducting refresher courses in Zoology for the college and University teachers. Several research students have qualified NET and GATE. A large number of its students are holding important faculty positions in the colleges, Universities and research institutions of the N.E. region and other parts of our country. The department was shifted to its permanent premises in the Science Complex (NEHU Permanent Campus) in September, 1994.

Head : Prof.(Mrs.) V. Tandon.

Faculty :**Name****Designation**

K.Chatterjee, M.Sc., Ph.D (Kalyani)

Professor

A. Raghuvarman, M.Sc., Ph.D. (Madras)

Professor

(Mrs) V. Tandon, M.Sc.(Hons.), Ph.D.(Punjabi)	Professor
B.K. Sharma, M.Sc.(Hons.), Ph.D. (Panjabi)	Professor
B.B.P. Gupta, M.Sc., Ph.D. (BHU)	Reader
S. B. Prasad, M.Sc., Ph.D. (BHU)	Reader
Ms. R.N.K. Hooroo, M.Sc., Ph.D.(NEHU)	Reader
B. Kharbuli, M.Sc., Ph.D.(NEHU)	Lecturer
N.Saha, M.Sc., Ph.D.(NEHU)	Lecturer
A. Chatterjee, M.Sc.(Burdwan), Ph.D.(BHU).	Lecturer
A.K. Yadav , M.Sc (Agra) Ph.D.(NEHU).	Lecturer

Student intake :

- (a) Enrolment capacity: 1. M. Sc. - 20
2. M. Phil. - 10.
- (b) Actual Admission under the following headings:

	SC	ST	Gen	Male	Female	Total
1. M.Sc.	2	10	8	8	12	20
2. M. Phil.	0	7	2	0	9	9
3. Ph. D.	0	1	3	0	4	4

Degrees Awarded:-

Ph.D. : Three

1 Ms. Jaqualin Dkhar; Title of the thesis : "Induction of urea cycle enzymes and characterization of arginase in a fresh water air-breathing teleost, *Heteropneustes fossilis* (Bloch)" (Supervisor : Dr. N. Saha).

2 Ms. Radiancy D.Lyngdoh; Title of the thesis : "Studies on some caryophyllidean cestodes parasitizing edible cat fishes - A morphological, histocytological and histochemical approach to the host-parasite relationship" (Supervisor: Prof. V. Tandon).

3 Ms. Anju Mahanta; Title of the thesis : "Comparative Study of hormonal regulation of the oxidative metabolism in hibernating and non-hibernating species of Amphibians" (Supervisor : Dr. B.B.P. Gupta).

Courses conducted :

Compulsory

Cell Biology & Immunology; Molecular Biology, Biotechnology, Functional Anatomy, Biological Chemistry, Genetics and Developmental Biology, Animal Ecology and Behaviour,

Parasitology, Applied Entomology, Fish & Fisheries, Biosystematics & Evolution, Techniques in Biology and Biometrics.

(Special Paper)

Cell Biology & Immunology, Entomology, Genetics, Parasitic Helminthology.

M.Phil. :

Animal Cytogenetics, Animal Parasitic Helminthology, Adaptational Physiology, Advanced Endocrinology, Entomology, Experimental Limnology.

Common course :

Basic Techniques in Biological Research.

Seminars/conferences/symposia etc. (organized)

The department organized the following refresher courses sponsored by the UGC (New Delhi) for college and university teachers:

1. "Recent Advances in Zoology - I" (23.8.95 to 12.9.95) (Course Co-ordinator: Dr. S. B. Prasad)
2. "Recent Advances in Zoology - II" (11.10.1995 to 31.10.95) (Course Co-ordinator: Dr. N. Saha)
3. "Recent Advances in Zoology - III" (11.3.96 to 31.3.96) (Course Co-ordinator : Dr. R.N.K. Hooroo)

Attended:

1. Prof. K. Chatterjee attended the meeting of Research Advisory Committee held at the National Bureau of Fish Genetic Resources, Lucknow (August 28-29, 1995).

2. Prof. A. Raghavarman attended IXth All India Congress of Zoology held at Department of Zoology, Burdwan University, Burdwan (September 26-28, 1995), and presented following papers :

- (1) Role of heme pigments in the color vision of human beings.
- (2) Disulphide-linked collagenous protein in the teeth and notochord sheath of agnatha.
- (3) Polymorphism in the integument of the various castes of the termites *Odontotermes distans*.

He also attended XIV National Symposium on Reproductive Physiology and Comparative Endocrinology held at the Department of Zoology, Gujarat University, Ahmedabad (January, 1996), and presented following papers :

- (1) 9-Ketodeo-2-enoic acid as "Queen substance" of the wasp, *Vespa structor*.
- (2) Induction of puffs on the polytene chromosomes of salivary glands of the middle IV instar larvae of *Chironomus khasiana* by "Queen substance".
- (3) Hyaluronic acid in the body cuticle of females of *T. wildoni* in relation to the

cutaneous mode of sperm transfer.

3. Dr. S.B. Prasad attended the "Interaction meet of BOYSCAST Fellows" (DST) held at BARC, Bombay (March 18-20, 1996).

4. Dr. A.K. Yadav attended an UGC sponsored refresher course "Recent Advances in Zoology - III" held at the Department of Zoology, NEHU, Shillong (11.03.96 to 31.3.96)

Visiting Professors/Fellows :

1. Dr. A. R. Khuda Bukhsh, Deptt. of Zoology, University of Kalyani visited the Department as a Visiting Fellow for 6 weeks (March - July Semester, 1995).

2. Dr. P.D. Gupta, Dy. Director, CCMB, Hyderabad visited the Department (March 23 -24, 1996) and delivered a series of four lectures on following topics:

- (1) Membrane transport.
- (2) Cytoskeleton.
- (3) Chemical signalling.
- (4) Apoptosis/Programmed cell death

3. Dr. A.N. Bhisey, Director, Cancer Research Institute, Bombay visited the Department and delivered a lecture (March 30, 1996) on the topic "Mechanism of leucocyte dysfunction in chronic myeloid leukemia".

Publications:

1. Dey, S. Choudhury, S. and Varman, A.R. "Structural and Chemical special action of the cuticle of *Euthenes* species in relation to its photophysiological and other physical properties" *CytoBios* 81 : 251-260 (1995).

2. Roy, B. and Tandon, V. "*Calicophoron shillongensis* sp. n. (Trematoda, Paramphistomidae), a new parasite from the goat (*Capra hircus*) in India" *Acta Parasitologica* 40(4) : 193-197 (1995).

3. Sharma, B.K. "Limnological studies in a small reservoir in Meghalaya (N.E. India)", in Timotius, K.H. and Gottenboth, F. (eds) *Tropical Limnology* Vol. II, pp. 187-197, Satya Wacana University Press, Salatiga, Indonesia (1995).

4. Paul, A.L. and Sharma, B.K. "On the occurrence of *Macrobrachium birmanicum* choprai (Tiwari) in the river Brahmaputra with a note on the variation of its rostral characters" *Fishing Chimes* 15 : 25-26 (1995).

5. Sharma, B.K. and Naik, L.P. "Species composition, distribution and abundance of rotifers in river Narmada, Madhya Pradesh (Central India)", in Timotius, K. H. and Gottenboth, F. (eds) *Tropical Limnology* Vol. III, pp.77-87, Satya Wacana University Press, Salatiga, Indonesia (1995).

6. Gupta, B.B.P. and Deka-Borah H. "In vivo and in vitro effects of metabolic hormones on tissue respiration in toad *Bufo melanostictus* during hibernation and active phase" *Indian J. Exp. Biology* 33 : 604-607 (1995)

7. Morita M., Prasad, S.B., Khokhar, A.R. and Siddik Z.H., "Cytotoxicity of buthionine sulfoximine and its differential effects on the activities of cisplatin and tetraplatin

against two pairs of sensitive-resistant cell lines" American Assoc. Cancer Research 36 : 400-406 (1995)

8. Saha N., Dkhar J., and Ratha B.K., "Induction of ureogenesis in perfused liver of a fresh water teleost, *Heteropneustes fossilis* infused with different concentrations of ammonium chloride" Comparative Biochemistry & Physiology 112(B) : 733-741 (1995).

9. Chatterjee, A. Chattopadhyay, A and Lawlor, C.J.Z. "Effect of glutathion on sister-chromatid exchange in normal and buthionine sulfoximine-treated mice" Mutation Research 327 : 171-177 (1995).

10. Chatterjee, A. Hodgkin, R.J. and Rojar, A. "The contribution of lethal mutation to excision assays for tumor cell survival" Acta Oncologica 39 : 493-500 (1995).

Study Tour/Field Trips of students:

Students of M.Sc. (Zoology) III Semester were taken on study tour by Dr. A. Chatterjee for 15 days (February 5-16, 1996) . They visited several academic and research institutions of Orissa and collected marine and fresh water specimens for preparing field reports.

Thrust Area of Research: Environmental Biology.

Research Programme/Research Project

On going Research Projects : Two

New Research Projects :

1. The Department of Zoology was sanctioned the second phase of DRS under special Assistance Programme of UGC, New Delhi (Total Grant: Rs. 26.55 Lakhs; Duration: 5 Years).

2. Dr.N. Saha was sanctioned an equipment grant by GTZ(Germany) for his project entitled "Amino acid metabolism under hyperammonia stress and osmotic stress in a fresh water air-breathing teleost, *Heteropneustes fossilis*" (Total Grant : Rs. 10 Lakhs approx.).

Any other remarks:

1. Prof. V. Tandon was invited as a resource person in a refresher course in Zoology at Gauhati University, Gauhati.

2. Dr. B.B.P. Gupta availed senior DAAD Fellowship for three months (1.9.1995 to 30.11.1995) to undertake a research project on signal transduction in mammalian pineal at Mainz University, Mainz, Germany.

3. Dr. A. Chatterjee availed Mount Vernon Hospital Trust Fellowship and worked in Gray Laboratories for 5 months (April - August, 1995).

V

SCHOOL OF PHYSICAL SCIENCE

The School of Physical Sciences, NEHU, comprising of three departments viz. Chemistry, Mathematics and Physics and two Centres, viz. Science Education and Applied Statistics, aims at being a dynamic Centre for Post Graduate teaching and research in frontiers of constituents subjects. The major specialisation and thrust areas of activities are: Inorganic, Organic and Physical, Chemistry; Pure and Applied Mathematics and Laser Physics, Nuclear Physics, Solid State Physics and High Energy Physics.

The Centre for Science Education is chiefly concerned with the propagation of Science and Computer Education. The Centre for Applied Statistics offer courses for various departments.

In a short span of their existence, the academic departments and the Centres have made a notable impact on the chosen areas of activities. Several faculty members of the School have won National Awards and Honours in recognition of their outstanding work in their respective fields. In view of its accomplishment, the UGC has recognised the Department of Chemistry for special assistance.

CENTRE FOR APPLIED STATISTICS

The Centre conducted teaching, research and training programmes in the field of Applied Statistics.

Head: Dr. M.K. Das

Faculty:

Name	Designation
M.K. Das , M.Sc./Ph.D. (Dibrugarh)	Reader & Head
Mrs. G. Das, M.A/M.Sc. (Delhi) Ph.D. (NEHU)	Sr. Lecturer
B.K. Gupta, M.A. Eco. (Rohilkhand) M.Sc.Stat (AMU)	Sr. Lecturer

Student intake:

Enrolment capacity : 10 (Certificate Course in Statistics)

Actual admission : 2

SC/ST	Gen.	Male	Female	Total
2	Nil	2	Nil	2

Courses conducted:

Certificate Course in Statistics: Mathematics & Descriptive Statistics, Computational Techniques & Elements of Probability Theory, Probability Distributions & Vital Statistics Methods, Economic Statistics & Indian Official Statistics, Descriptive Statistics & Sampling Distributions, Statistical Methods & Practical Problems on the topics covered in Statistical Methods, Sampling Techniques & Statistical Quality Control and Analysis of Variance & Experimental Designs.

Seminar/Symposia/Workshop/Extension Programmes:

Attended:

1. UGC sponsored Refresher Course in Education Department of NEHU on December 14-15, 1995, Dr. M.K. Das delivered two lectures on Statistics and Environment.
2. UGC sponsored Refresher Course in Education Department of NEHU on March 14 and 16, 1996, Dr. M.K. Das delivered two lectures on Non parametric Statistics in Education.
3. Seminar on Statistics and Operation Research and their application to diverse fields at department of Statistics, Gauhati University, December 30-31, 1995, Dr. G. Das presented a paper on Preliminary Test Estimator in Double Sampling with two Auxiliary Variable.
4. Seminar on Statistics and Operation Research and their application to diverse fields at the department of Statistics, Gauhati University, 30-31 December, 1995, Mr. B.K. Gupta presented a paper on Allocation of sample size to strata under a correlated superpopulation Models.

Thrust Area of Research : Sampling Technique & Statistical Inference.

DEPARTMENT OF CHEMISTRY

With its commitment in fostering the cause of Chemical Sciences in the catchment area, the Department of Chemistry has been making noticeable progress. The recognition accorded to this Department by the University Grants Commission, in the form of the Special Assistance Programme, has helped strengthen the academic activities comprising both, the teaching and research programmes. The M.Sc. syllabus has been revised and will come into effect from August 1996. The Department has received a few new research projects, and has also maintained scientific collaborations with premier institutions in India and abroad.

Head : Professor M.K. Chaudhuri

Faculty :

Name	Designation
H. Junjappa, Ph.D (Karnataka)	Professor
T.S.B.Narasaraju, Dr.rer.Nat (Hamburg)	Professor
Mrs. H. Ila, Ph.D. (IIT, Kanpur) (on lien)	Professor
S.N. Bhat, Ph.D. (IIT, Kanpur)	Professor
M.K. Chaudhuri, Ph.D. (IIT Kharagpur), Dr.rer. Nat (RUB, Germany)	Professor
M.P. Mahajan, Ph.D. (Punjabi Univ., Patiala)	Professor
M.K. Mahanti, Ph.D. (Berhampur)	Professor
R.K. Poddar, Ph. D. (IIT, Kanpur)	Reader
S.N. Rai, Ph.D. (BHU) (on lien)	Reader
K. Ismail, Ph.D. (AMU)	Reader
K.K. Dwivedi, Ph.D. (IIT, Kanpur)	Reader
H. Chandra, Ph.D (Punjabi)	Reader
B. Myrboh, Ph.D. (NEHU)	Reader
S. Aravamudhan, Ph.D. (IIT, Kanpur)	Lecturer
S. Goswami, Ph.D. (Jadavpur) (on lien).	Lecturer
Z. Hiese, Ph.D. (NEHU) (on leave)	Lecturer
R.H. Duncan Lyngdoh, Ph.D. (IIT, Madras)	Lecturer
A. Lemtur, Ph.D. (NEHU)	Lecturer
F.M. Nongrum, Ph.D. (Leeds) (on leave)	Lecturer
S. Chattopadhyay, Ph.D. (Jadavpur)	Visiting Fellow (now left)
Alok Srivastava, Ph.D. (Bombay) (on leave)	Scientific Pool Officer

Students Intake

i). M.Sc.

Enrolment Capacity : 29

Actual Admission

General	SC/ST	Male	Female	Total
14	14	12	16	28

ii) M.Phil. : Nil

iii) Ph.D. : 12

Degrees Awarded

(a) M. Phil. : Nil

(b) Ph.D. : 6

1. K.R.Reddy, "Newer Synthetic Methods via -Oxoketene S,S- and S N - Acetals". Supervisor Prof.H.IIIa.

2. K. Malik Yadav, Part-A "Synthetic Studies Using Oxoketene S,S- and S,N-Acetals" Part-B "Highly Regio And Diastereo Selectiv OC-Addition of Chloroallyl Zinc Reagent to Carbonyl Compounds". Supervisor Professor H Junjappa.

3. J.Satyanarayana, "Studies on New C-C Bond Forming Reactions Using - Oxoketene S,S- and S,N-Acetals". Supervisor Professor H Junjappa.

4. D.E. Phebe, "Some Physico-Chemical Aspects of Hydroxyl-Iodide Exchange on Calcium Hydroxylapatite". Supervisor Professor T S B Narasaraaju.

5. F. Mathew, Part A - "Synthetic Studies on Lead(IV) Acetate Oxidations : Studies on 1,2 Carbonyl Transposition and Related Reactions". Part B - "Development of General Methods for the Synthesis of Diaryl Methanes and Stilbenes from Azines". Supervisor Dr. B. Myrboh.

6. S.K. Chettri, "Some Contributions to the Peroxo and Fluoro Chemistry of Titanium, Vanadium, Chromium and Uranium and Crystal Structure of Pyridinium Fluorochromate (PFC)". Supervisor Professor M K Chaudhuri.

Courses Conducted : (Compulsory)

Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Quantum Chemistry, Laboratory Course in Inorganic Chemistry, Chemical Bonding and Molecular Spectroscopy, Laboratory Course in Organic Chemistry, Applications of Spectroscopic Methods, Laboratory Course in Physical Chemistry, Analytical Chemistry and Computers.

Optionals:

Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Project Work (Inorganic Chemistry), Project Work (Organic Chemistry), Project Work (Physical Chemistry).

Refresher Course Conducted by the Department:

The Department conducted one refresher course for College and University teachers. This course was the 14th in the series, and was conducted from November 24th to December 14, 1995. Prof. T.S.B. Narasaraju and Dr. A. Lemtur were the course coordinators. Apart from 11 internal resource persons, 6 external resource persons participated in this course. They were :-

Prof. A.K. Chakraborty, Tripura University, Prof. K.C. Mazumdar, Kalyani University, Prof. P.K. Gogoi, Dibrugarh University, Prof. P.K. Bharadwaj, IIT Kanpur, Prof. S.P. Mishra, Banaras Hindu University, Dr. A. Srivastava, Allahabad University.

Seminars/Conferences/Symposia/Extension Programmes :

Attended :

1. Prof. H. Junjappa delivered the Dr. R.C. Shah Memorial Lecture at University of Bombay (July 19, 1995) on "A new Method of Aromatic and Hetero-" and Prof. T.R. Seshadri Memorial Lecture at University of Delhi (February 9, 1996) on "New General Methods for Aromatic and Hetero-".

2. Prof.(Mrs) H. Ila was Invited to Lecture at University of Cambridge England, (March 1995) on "Strategies for Annelation". And Prof. U.R. Ghatak's 65th Birth Anniversary (Invited Lecture) at IACS, Calcutta (January 29, 1996) on "A New Approach to Cyclopentenoid Chemistry via."

3. Prof. S.N. Bhat attended National Conference on Colloids and Emulsions of Natural and Synthetic Systems at Tripura University Agartala (February 2-4, 1996) and talked on "Interaction of Phenazinium Dyes and methyl orange with micelles of various."

4. Dr.R.K. Poddar attended Second Refresher Course in Chemistry at Gauhati University, Guwahati (Oct 19-21, 1995), delivered six lectures on "Symmetry & Group Theory". And Third Refresher Course in Chemistry at Gauhati University, Guwahati (March 28-29, 1996), delivered four lectures on "Symmetry & Group Theory".

5. Dr. K.K. Dwivedi attended a Workshop on "Safety Aspects in Uranium Mining" at State Central Library Shillong (June 8, 1995) on "Nuclear Radiation: A boon or a bane?" Was invited to lecture on "New dimensions of Heavy Ion Nuclear Research" in Workshop on Accelerator based Experimental Facilities at NSC, New Delhi at Gauhati University, Guwahati (June 23-24, 1995).

Invited to Lecture at Physical Research Laboratory, Ahmedabad (July 3, 1995) on "Studies on Heavy Ion Fusion-Fission and Particle Evaporation"

Participated in the Conference and joined as panelist in the closing function" on 100 Years of X-rays and Radioactivity (RON-BEC 100) at Bhabha Atomic Research Centre Bombay (Feb 21-24, 1996) .

Visiting Professors/Fellows

1. Prof. Robert J. Buenker University of Wuppertal (Germany) gave a talk on "New Development in CI Calculations of Electronic Structure" on 15.11.95.

Research Publications:

1. Chaudhuri, M.K., Chettri, S.K., Paul, P.C. and Srinivas, P., "Fluoride - Assisted Stabilisation of Amino Acid Complexes of Vanadium. Synthesis and Characterisation". *J. Fluorine Chem.*, 99 : 999-1003 (1995).
2. Chaudhuri, M.K., Chettri, S.K., and Dey, D., "Monoperoxopentafluorotitanate (IV) and Dioxomonoperoxo-Difluoro Uranate(VI) Complexes" *Inorg. Syntheses*, 32 : 000(1995).
3. Paul, B.C., Sarkhel, P., and Poddar, R.K., "Synthesis and Catalytic Activity of Ruthenium(II) Complexes Containing Acetyl Acetonate" *J. Coord. Chem.*, 36 : 267-272 (1995).
4. Sarkhel, P., Sarker, S.C., Gupta, A.K. and Poddar, R.K., "Mono- and Binuclear trifluoroacetato Complexes Containing Monodentate Co-ligands" *Trans. Met. Chem.*, 21 : 1-4 (1996).
5. Dwivedi, K.K., Srivastava, A., Ghosh, S., Sinha, D., Laldawngliana, C., Lalramengzami, R. and Saxena, A. "Measurement of Indoor Radon in some Dwellings of Aizawl" *Indoor Environment*, 4 : 362-364 (1995).
6. Srivastava, A., Laldawngliana, C., Sinha, D., Ghosh, S., Dwivedi, K.K. and Brandt, R. "Measurement of Range and Energy-loss of Energetic ^{58}Ni and ^{197}Au ions in Kapton". *Nucl. Sci. Journal*, 33 : 85-93 (1996).
7. Srivastava, A., Lalramengzami, R., Laldawngliana, C., Sinha, D., Ghosh, S., Dwivedi, K.K., Saxena, A. and Ramachandran, T.V., "Measurement of Potential Alpha Energy Exposure (PAEE) of Radon and Its Progenies in Dwellings in the North-Eastern Region of India" *Int. J. Radiat. Appl. Instrum. (Part D): Radiation. Meas.*, 26 : 0291-295 (1996).
8. Dwivedi, K.K., Srivastava, A., Ghosh, S., Sinha, D., Saxena, A. and Brandt, R. "Energy -loss and Mean Ranges of ^{86}Kr and ^{197}Au in Tantalum". *Int. J. Radiat. Appl. Instrum. (Part D): Radiation Meas.*, 26 : 000-000 (1996).
9. Dwivedi, K.K. "New Dimensions of Heavy Ion Nuclear Research" *J. Indian Chem. Soc.*, 73 : 000-000 (1996).
10. Srivastava, A., Laldawngliana, C., Sinha, D., Ghosh, S., Dwivedi, K.K. and Brandt, R., "Range and Energy - loss of ^{58}Ni and ^{129}Xe in Hostaphan". *Indian J. Pure and App. Phys.*, 34 : 000-000 (1996).
11. Ila, H., Junjappa, H. and Satyanarayana, J., "1-Chloroallyllithium", Article in "Encyclopedia of Organic Reagents for Organic Synthesis", Leo A. Paquette, Editor in Chief, John Wiley, 2 : 1075-1076 (1995).
12. Junjappa, H., Ila, H. and Satyanarayana, J., "1,1-Dichloroallyllithium", Article in "Encyclopedia of Organic Reagents for Organic Synthesis", Leo A. Paquette, Editor in Chief, John Wiley, 3:1657-1659 (1995).
13. Basaveswara Rao, M.V., Satyanarayana, J., Ila, H., and Junjappa, H., "Anionic [4+2] Cycloaddition Reactions of Indole 2,3-Dienolate with Dienophiles: A Facile Regiospecific Route to Substituted Carbazole", *Tetrahedron Lett.*, 36 : 3385-3388 (1995).
14. Purkayastha, M.L., Bhat, L.N., Ila, H. and Junjappa, H., "4-Alkoxy-3-cyano-2(1H)pyridones and 5-Alkoxyisoxazoles and their Aryl Substituted and Annulated Derivatives form Acylketene O,S-acetals, Synthesis, 641-643 (1995).
15. Gupta, A.K., Reddy, K.R., Ila, H. and Junjappa, H., "Cuprous Bromide Promoted Cyclization of Ketene N,S-acetals with prop-2-ynyl Bromide: Synthesis of

Regiospecifically Substituted and Annelated 3-acyl (or nitro)-5-methylpyrroles" J. Chem. Soc. Perkin Trans. I, 1725-1727 (1995).

16. Reddy, K.R., Ila, H. and Junjappa, H., "Cycloaromatization of Methyl(E)-4-(methylthio)-3-(1-pyrrolidinyl)-2-butenolate with α -Oxoketene N,S-acetals: Direct Synthesis of 3,5-Bis(cycloamino)biphenyls" Synthesis, 929-930 (1995).

17. Gupta, A.K., Mallik Yadav, K., Patro, B., Ila, H. and Junjappa, H., Synthesis of D-Ring Functionalized and D-Benzo/Heteroannulated Esterone Derivatives via α -Oxoketene Dithioacetals, Synthesis, 481-483 (1995).

18. Reddy, K.R., Roy, A., Ila, H. and Junjappa, H., "Regiospecific Generation and Application of 3-Lithiomethyl-2-methyl-1-phenylpyrazoline-5-one as 1,3-Bisnucleophilic in Aromatic Annelation: A Novel Approach for Synthesis of 1,2-Disubstituted Indazolones and Their Condensed Analogs" Tetrahedron, 51 : 10941-10952 (1995).

19. Mehta, B.K., Dhar, S., Ila, H. and Junjappa, H., "Highly Efficient and Selective Displacement of Alkylthio Group on Acylketene O,S-Acetals by Organocopper Reagents: A Novel Route to 2-Alkoxy/aryloxy-1-alkenylketones" Tetrahedron Lett. 36 : 9377-9380 (1995).

20. Rao, C.S., Patro, B., Ila, H. and Junjappa, H., "Chemoselective Conjugate 1,4-Reduction of α -Oxoketene Dithioacetal with Sodium Borohydride in Acetic acid" Ind. J. Chem. 35B : 57-59 (1996).

21. Malik Yadav, K., Suresh, J.R., Patro, B., Ila, H. and Junjappa, H., "Stepwise Controlled Reduction Studies on α -Oxoketene Dithioacetals with Zn/ZnCl₂/TMEDA in Ethanol" Tetrahedron, 52, 0000 (1996).

22. Gupta, A.K., Samal, S.K., Ila, H. and Junjappa, H., "Trimethyl Borate Induced Thermal Cycloaromatization of 1-Aryl-1-(prop-2-ynyl)-3,3-bis(alkylthio)-2-propen-1-ols Through Acetylenic Oxy-Cope Rearrangement" Tetrahedron Lett., 37 : 2817-2820 (1996).

23. Sathyanarayana, J., Basaveswara Rao, M.V., Ila, H. and Junjappa, H., Synthesis and Lewis Acid Assisted Rearrangement of Novel Donor-Acceptor Substituted Cyclopropanes: Highly stereoselective [4+1] Annulation Approach to Substituted and Spiro Cyclopentene Derivatives" Tetrahedron Lett., 37, 0000 (1996).

24. Reddy, K.R., Basaveswara Rao, M.V., Ila, H. and Junjappa, H., "Direct Synthesis of 2-(Cycloalkylamino)-3,4-substituted Thiophenes via Selective Deprotonation-Cyclization of Arylketene N,S-Acetals," Synthetic Communications, 0000 (1996).

25. Dey, P.D., Sharma, A.K., Rai, S.N. and Mahajan, M.P. "Synthesis and regioselective [4+2] Cycloaddition/Nucleophilic Reactions of N-Arylamino-1,3-Diaza-1,3-Butadienes with Ketenes and Accompanying Rearrangements" Tetrahedron, 51 : 7459-7468 (1995).

26. Sharma, A.K., Mazumdar, S.N., Mahajan, M.P., "A Convenient Trans Diastereoselective Synthesis of 3-Butadienyl Azetidiones and Their Diels-Alder Cycloaddition Reactions" J. Org. Chem., 61 : 000 (1996).

27. Mathew, F., Bhattacharjee, S. and Myrboh, B. "Synthesis of Diaryl Methanes by Friedel-Craft Condensation of Benzalazines with Aromatic Hydrocarbons" Synthetic Communications, 25 : 1795 (1995).

28. Mathew, F. and Myrboh, B., "Favorski Type Rearrangement in the Lead(IV)acetate Oxidation of Cycloalkanones" Synthetic Communications, 26 : 000 (1996).

29. Venkateswarlu, D. and Duncan Lyngdoh, R.H., "Structural, Steric and Ener-

getic Requirements for Induction of Base Substitutional Mutations by Methylated Guanines and Thymines. *J. Chem. Soc. Perkin Trans. 2* : 839-846 (1995).

30. Venkateswarlu, D. and Duncan Lyngdoh, R.H., "Proton Transfer Reactions of Nucleic acid Bases : A Semiempirical Molecular Orbital Study:" *Proc. Indian Acad. Sci. (Chem. Sci.)* 107 : 221-231 (1995).

31. Sengupta, J. and Duncan Lyngdoh, R.H., Comparison of Physicochemical Role of Parent, Proximate and Ultimate Carcinogenic Forms of Aromatic Amines : A Semiempirical Molecular Orbital study. *J. Indian Chem. Soc.* 76 : 000 (1996).

32. Sengupta, J. and Duncan Lyngdoh, R.H., "Relative Preferences of Carcinogenic Aromatic Amines for Adduct Formation with Different DNA Base Sites : Theoretical Elucidations." *J. Biol. Phys.*, 000 (1996).

33. Bhattacharjee, M., Sinha, A. and Bhat, S.N. "Spectroscopic Investigations of the Interaction of p-Nitrophenol with Surfactants" *J. Ind. Chem. Soc.*, 73, 000 (1996).

34. Nongkynrih, I. and Mahanti, M.K., "Kinetics and Mechanism of Oxidation of Unsaturated Acids by Quinolinium Dichromate" *Oxidation Communications*, 18 : 39-43 (1995).

35. Nongkynrih I. and Mahanti, M.K., "Quinolinium Dichromate Oxidation of Bicyclic Alcohols" *Bull. Chem. Soc. Japan*, 68 : 3325-3329 (1995).

36. Mahiuddin, S. and Ismail, K., "Temperature and Concentration Dependence of Viscosity of Aqueous Sodium Nitrate and Sodium Thiosulfate Electrolytic Systems", *Fluid Phase Equil.*, 113: 000 (1996).

37. Bhattacharjee, S., Khan, Md.N., Chandra, H. and Symons, M.C.R., "Radical Cations from Nitron Spin-Traps: Reaction with Water to give OH-Adducts" *J. Chem. Soc. Perkin Trans. II.*, 000 (1996).

38. Subramanian, J., Shedbalkar, V.P., Lemtur, A., Chakravorty, R. and Saloi, T.N. "Cyclic Voltametric and EPR Studies on the Oxidation Products of Vanadylmesoporphyrin" *J. Phys. Chem.*, 100, 4770-4773 (1996).

Study Tour/Field Trips of Students

The Department organized a study tour for the M.Sc. students in January 1996. Under the guidance of Dr. B. Myrboh, the students visited Bhabha Atomic Research Centre at Mumbai. A guided tour was organized for the students to visit different laboratories in BARC and to get them exposed to various scientific and technological activities of the Centre.

Thrust Areas of Research

Research activities in Organic Chemistry have focused attention on developing newer synthetic methods for important heterocyclic and carbocyclic compounds of biological relevance. A number of such compound are being screened for assessment of their activity. Synthetic and mechanistic studies on cycloaddition reactions of novel azadienes and oxyplumbation reactions are carried out. In Theoretical Organic and Bio-organic Chemistry, the research involves investigating the molecular basis of carcinogenesis, mutagenesis and of genetic code. Some activities on designing of DNA-like polymers and on time- saving techniques in computational chemistry are also done. Research activities in Physical Chem-

istry include work in Solid State Chemistry with emphasis on isomorphous substitution on hydroxylapatite, solubility equilibria of solid solutions of apatites, organic semiconductors, nuclear interactions involving charge-transfer complexes, hydrogen bonding and hydrophobic interactions, and micelles. Research in Chemical Dynamics pertains to electron-transfer processes, the use of newer reagents for oxidation and the design of novel methods for transition metal compounds derived from the reduction of transition metal ions by sodium tetrahydroborate. Work on the transport behaviour of electrolytes in aqueous and molten media as a function of temperature and pressure are actively pursued. In addition, theoretical studies on vibrationally excited states are also in progress. ESR studies on single electron transfer reactions and free radicals using the spin trapping technique are carried out. EPR studies on the oxidation products of metalloporphyrins and related bio-inorganic systems are also conducted. Research on the area of determination and applications of contributions to shielding tensors is conducted. Studies on redox potential of porphyrins and metalloporphyrins using cyclic voltametry are also pursued.

Research activities in Inorganic Chemistry address to the synthesis, characterization, evaluation of molecular structures by different techniques and studies of reactivity of fluoro, peroxo/dioxygen and β -diketonatometallates, and fluoro and peroxo compounds of non metals, sulfoxide and arylazo complexes of transition metals. Emphasis is also given on the stabilization of unusual oxidation states of metals, and the development of newer reagents and catalysts. Research activities related to Nuclear and Environmental Chemistry include heavy ion range and energy loss in solids, development of nuclear track microfilters, studies on fusion-fission and particle evaporation, radon monitoring and measurement of trace pollutants in the environment.

Research Programme/Research Projects (New)

The Department has several ongoing research projects, sponsored by different funding agencies. In addition, the following Research Projects have been initiated in the period under report:

1. Dr. R.H.D. Lyngdoh : "Theoretical Investigation on Codon- Anticodon pairing and the Genetic Code" funded by the Department of Science and Technology (DST).
2. Dr. K.K.Dwivedi : "Integrated Radon Monitoring in Mizoram State" (Phase-II) (1995-97) funded by the MCST & E, Govt. of Mizoram.
3. Dr. K.K. Dwivedi : "Mean Ranges and Energy-loss of heavy Ions in Solids": (B16/1/1/17/B) (April, 1995) funded by NSC (UGC).
4. Dr. K.K. Dwivedi : "Study of Incomplete Fusion in Heavy Ion Reactions between Light Projectiles and Medium Mass Targets" (B16/2/1/18/C) (July, 1995) funded by NSC (UGC).

Any other remarks

Prof. M.K. Chaudhuri continued to be a member of the SERC an apex body of DST. Both Prof. Chaudhuri and Prof. H. Junjappa served as members of the Programme Advisory Committees (PAC) of DST. Dr. K.K. Dwivedi was elected Vice-President of the Nuclear Track Society of India and was a Visitor's nominee to the first Court of the Nagaland University. Dr. Dwivedi was also nominated as member of the international advisory committee for

organizing 18th international conference on Nuclear Track in Solids to be held in Cairo, Egypt in September 1996. Dr. Harish Chandra visited the University of Essex, England from August 24 - November 30, 1995, as CEC visiting fellow. Dr. B. Myrboh was a member of the selection board of UPSC, New Delhi as a subject advisor. Dr. A. Lemtur was nominated as a member of the Council of Science and Technology, Government of Nagaland and also a member of the Board of Undergraduate Studies (BUGS) of the Nagaland University.

DEPARTMENT OF MATHEMATICS

The department of Mathematics completed 22 years of its existence in 1996. It continues to devote itself to post-graduate teaching and research in various branches of Mathematics.

Head : Professor M.B. Rege.

Faculty :

Name	Designation
S.S. Khare, Ph.D. (Allhd.)	Professor
M.B. Rege, Ph.D. (Bombay)	Professor
S.K. Srivastava, Ph.D.(Gorkp)	Professor
H.K. Mukerjee, Ph.D. (Allhd.)	Professor
P.K. Saikia, Ph.D. (Wiscn.)	Reader
B.K.Dev Sarma, Ph.D. (Khar-IIT)	Reader
S.L. Marbaniang, M.Sc. (Gau.)	Lecturer
Ms. C.R. Mondal, Ph.D. (Vis.Bhart)	Lecturer
A.K. Das. , Ph.D. (NEHU)	Lecturer
R.P. Shukla , Ph.D. (Allhd.)	Lecturer

Student Intake :

- (a) Enrolment capacity : 20
- (b) Actual Admission : 22

M.A/M.Sc.	SC / ST	Genl	Male	Female	Total
	3	19	11	11	22

Degrees Awarded:

Ph.D.

Ms. S. Datta has been awarded Ph.D. degree. Dr. H.K.Mukherjee was her supervisor.

Courses conducted:

Linear Algebra, Analysis, Classical Mechanics, Topology, Algebra,. Complex Function Theory, Fluid Mechanics, Functional Analysis, Elementary Number Theory, Operation Research.

Seminars/Conferences/Symposia/Extension Programmes :

Attended:

(i) Dr. M.B.Rege attended a meeting of problem co-ordinators (preparatory to the International Mathematical Olympiad-1996) held at Bangalore from March 11, 1996 to March 14, 1996.

(ii) Dr. H. K. Mukerjee has held visiting position during Jan-Feb, 1996 for one month at the T.I.F.R., Bombay, in connection with the furtherence of his DST research project work on an computer aided approach to some classification problems in Differential Topology.

(iii) Prof. S. S. Khare delivered 7 talks as resource person in the UGC sponsored Refresher Course organised by Academic Staff College at the Department of Mathematics, University of Allahabad from March 31 to April 20, 1995.

(iv) Prof. S.S. Khare gave 2 invited talks in the conference on Algebraic and Differential Topology in the Department of Mathematics, University of Allahabad in April, 1995.

(v) Dr. R.P. Shukla attended the 'Conference on Geometry and Topology' at Department of mathematics, R.D. University Jabalpur from Dec 18-21, 1995 and delivered one lecture.

Seminars/Conferences/Symposia/Extension Programmes

Organised:

(i) The Department continued organising the Indian National Mathematical Olympiad (INMO) at Shillong centre and co-ordinated the conduct of Regional Mathematical Olympiads in the N.E. Region for the tenth consecutive year. A training programme for INMO candidates from Shillong and Manipur was organised in the Department from Jan. 25, 1996 to Feb.3, 1996. Dr.M.B.Rege, Dr.Vijai Kumar, Dr.D.Bhattacharjee and Mr.Dipankar Deb conducted problem-solving sessions for the participants.

(ii) As a part of an N.E.C.-sponsored scheme for the improvement of school mathematics education in the N.E.Region, two events were organised in which the department functioned as the nodal agency.

(iii) A meeting of representatives of various Boards of Education of north-eastern states was held in Shillong from Dec.14,1995 to Dec. 16, 1995 to discuss the topics to be covered in the various teacher orientation camps to be held under the scheme. A number of resource persons, including Prof.Vijai Kumar, Dr.Pushpak Bhattacharjee of Indian Institute of Technology, Mumbai and a few representatives of Boards of Education gave presentations at this meeting.

(iv) A training camp for school teachers from N.E. States was organised in the Permanent Campus, NEHU, on Feb.7,1996 and Feb.18, 1996. Among the resource persons for this camp there were Dr.P.Saikia, Dr.Y.S.T. Rao, Dr. N.J.Dev, Dr.D.Bhattacharjee, Dr. M.B. Rege and Mr. B.S.Purkayastha.

Visiting professors/Fellows :

Prof. S.G. Dani of TIFR, Mumbai and Dr. Meenaxi Bhattacharjee of IIT, Guwahati visited the department in October 1995; each delivered a special lecture.

Publications:

1. Koikara, B.S. and Mukerjee, H.K., "A Borsuk-Ulam type theorem for a product of spheres" *Topology and its Applications*, 63: 39-52 (1995).
2. Koikara, B.S. and Mukerjee, H.K., "A Borsuk-Ulam theorem for maps of fibre bundles with manifolds as fibres" *Archiv der Mathematik*, 66 (1995).
3. Das, A.K. and Khare, S.S. "On Milnor's theorem and G-bordism" *J. Ind. Math. Soc.* 61: 229-240 (1995).
4. Khare, S.S. and Dev, N.J., "Compact abelian Lie group action and the group N (F)" *Studia Scientiarum Mathematicarum Hungarica* 30: 189-195 (1995).
5. Khare, S.S. and Chakraborty, A.B., "Fuzzy homomorphism and f-fuzzy subgroups generated by a fuzzy subset" *Fuzzy sets and systems* 74: 259-268 (1995).

Study Tour/Field Trips of students:

A study tour to Mumbai, Panaji (Goa) and Bangalore was organised. In Mumbai the participants visited Tata Institute of Fundamental Research, especially the School of Mathematics and Computer Centre. In Panaji they paid a visit to the National Institute of Oceanography and studied some specialised instruments used in oceanographic studies. In Bangalore they had an opportunity to visit SERC (supercomputer education and research centre) and the Department of Aerospace Engineering in the Indian Institute of Science. The trip also afforded an opportunity to the Department students to get acquainted with the culture and society of several cities in western and southern India.

Thurst Area of Research: Pure and applied mathematics.

Research Programme/Research Project/Any Academic Programme:

(i) In the DST Research Project entitled "A computer aided approach to some classification problem in Differential Topology" under the principal investigatorship of Dr.

H. K. Mukerjee.

Any Other Remarks:

Under the Indo-French Academic Exchange programme, DR. H.K. Mukerjee was selected by UGC to undertake a joint research work in France.

DEPARTMENT OF PHYSICS

The Department of Physics was established in 1976 with a view to build scientific manpower in this part of the Country. The department currently offers post-graduate education leading to M.Sc., M.Phil. and Ph.D. degrees in Physics. The teaching programmes are supported by good research facilities in the areas of laser Physics/Spectroscopy, nuclear Physics, High Energy/Particle Physics and Solid State Physics.

Head : Professor Kamal Kumar.

Faculty:

Name	Designation
A.L.Verma, M.Sc.,Ph.D.	Professor
C.S.Shastry, M.Sc.,D.Phil.	Professor
Y.S.T.Rao, M.Sc.,Ph.D.	Professor
P.Shukla, M.Sc.,Ph.D.	Professor
R.Singh, M.Sc.,Ph.D.	Professor
K.Kumar, M.Sc.,Ph.D.	Professor
Y.S.Jain, M.Sc.,Ph.D.	Reader
D.T.Khathing, M.Sc.,D.Phil.	Reader
P.N. Pandita, M.Sc.,Ph.D.	Reader
P.N. Ram, M.Sc.,D.Phil	Reader
M.K. Parida, M.Sc.,Ph.D.	Reader
Mrs.B. M .Jyrwa, M.Sc.,Ph.D.	Reader
Ms. P .Nongkynrih, M.Sc.,Ph.D.	Reader
P.K.Bajpai, M.Sc.,Ph.D.	Lecturer

Student intake

Enrolment capacity	: 26
Actual admission	: 25

M.Sc.	SC/ST	General	Male	Female	Total
	17	8	17	8	25

Degrees Awarded

Ph.D. :

1. Ms. P. Susan, "Investigation in low and Medium Energy Nuclear Scattering". Research Supervisor Dr. C. S. Shastri.
2. Mr J Blah, "Vibrational Spectra of Solids induced by defects in bulk and at surface". Research supervisor Dr. P. N. Ram.
3. Mr. T. K. Sinha, "Statistical Mechanics of Neural Network". Research supervisor Dr. P. Shukla.

Courses Conducted

M.Sc.

Classical Mechanics, Quantum Mechanics, Mathematical Physics, Electrodynamics, Electronics, Nuclear Physics, Solid State Physics, Atomic and Molecular Physics, Thermal Physics, Many Body Theory, Experimental Techniques, Solid State Physics, Laser Physics, Nuclear Physics and Project Work.

Seminars/Conferences/Symposia/Extension Programmes:

Attended :

1. Professor A.L.Verma was invited by D.S.T., New Delhi to review and identify the challenging areas in the fields of lasers, optics, Atomic and Molecular Physics in a workshop organised at the Physical Research Laboratory, Ahmedabad, on 5th and 6th October, 1995.
2. Professor A.L.Verma on invitation participated in the international Conference on Spectroscopy organised at the Bhabha Atomic Research Centre, Bombay, from 3rd to 5th January 1996 and chaired one Scientific Session. He also worked as a member of the National Organising Committee for this Conference.
3. Professor A.L.Verma delivered two talks on 12th September 1995 on Fourier-Transform Spectroscopy in the Regional Workshop on FT-IR Spectrophotometry organized by RSIC, NEHU, Shillong from 12th to 16th September 1995.
4. Professor C.S. Shastri attended International Nuclear Physics Symposium (INPS-95) during December 18-22, 1995 at BARC and presented a paper.
5. Professor Y.S.T. Rao attended International Nuclear Physics Symposium (INPS-95) during December 18-22, 1995 at BARC, Bombay and gave a poster presentation.
6. Professor Kamal Kumar delivered a talk on 12th September 1995 on Fourier Transform D Spectroscopy in the Regional workshop on FT-IR Spectrophotometry organised by RSIC, NEHU, Shillong from 12th to 16th September 1995.
7. Dr. M. K. Parida was invited to 4th Workshop on High Energy Physics Phenomenology (WHEPP IV), Calcutta, January 2-14 (1996) and (a) acted as the Chair-

man in a Session consisting of two plenary talks at WHEPP IV, Calcutta, January 5, 1996. (b) "Low energy neutrino mass formulas" at the Neutrino group activity at WHEPP IV, Calcutta, January 6, 1996.

8. Dr. (Mrs) Jyrwa attended International Nuclear Physics Symposium from December 18-22, 1995 at BARC Bombay.

9. Dr(Mrs) Jyrwa attended a course on computational Physics organised by Indian Physics Association (Bombay chapter) held at Bombay from 10-17 February, 1996.

10. Dr. Bajpai attended National laser symposium, BARC Bombay, January 17-19, 1996 and (a) had a poster presentation PH induced phase transition in Bovine Serum Albumin: A Laser Raman study. (b) gave a review talk "Biological Application of laser Raman spectroscopy. Investigations on Proteins and related system".

11. Dr. Bajpai presented a poster "Determination of Secondary structure of a protein-Gelonin" at the International seminar-cum-school on Macromolecular crystallographic data, Saha Institute of Nuclear Physics, Calcutta, November 16-20, 1995.

12. Professor R Singh was co-author in two papers presented at the International Nuclear Physics Symposium (INPS 95) December 18-22, 1995 at BARC.

Visiting Professor/Fellows:

1. Dr. A. K. Sood from the IISc Bangalore visited the Department of Physics and gave a seminar on "Novel aspects of soft condensed Matter".

2. Dr. S. K. Gupta from BARC, Bombay, visited Physics Department and gave a seminar on Nuclear Physics.

3. Dr. R. Ramanna visited Physics Department and gave a lecture on his recent researches on the masses of elementary particles and nuclei.

Publications

1. Shantha, P. K. and Verma, A. L. "Resonance Raman Characterization of oxoferryl-Tetraphenyl porphyrin formed during photodisproportionation of (Fe (TPP/2)O in a detergent Micelle at Room Temperature, Inorg. Chem. 36 (1996).

2. Pathak, C.M. Asthana, B. P. Singh, R. K. and Verma, A.L. "Raman Study of concentration dependence of frequency shifts and linewidth changes in 3-chloro Pyridine + Methanol Mixture" XIV ICORS, John Wiley & Sons, New York, Add. Vol 335-336 (1995).

3. Shastri, C. S. "Low Energy heavy ion scattering in Nuclear Reactions, "R. Singh and S.N. Mukherjee (Eds) New Age International pp 101-163 (1995).

4. Singh R, "Resonance in heavy ion collisions" in Singh R and Mukherjee S.N. (Eds). Nuclear Reactions, pp 206-256, New Age International Publisher, New Delhi (1996).

5. Sinha, A.K. and Singh, R. "Nuclear Physics by Direct Residue detection and channel Tagging using Heavy ion Reaction Analyser (HIRA)" Phys. Educn. 11.341-350 (1995).

6. Singh, R and Mukherjee S.N. "Nuclear Reactions" New Age International Publishers New Delhi (1996).

7. Pandita, P N., "Upper bound on the mass of the lightest Neutralino in a general supersymmetric Theory with grand Unification" Phys.Rev.D53 : 566-569 (1996).

8. Erjquist, K. Huitu, Katri and Pandita, P.N. "R-Parity Breaking phase Transition in the SUSY singlet majoron Model" Physics letters : B 366: 181-187 (1996)

9. Ananthanarayan, B and Pandita, P.N. "The Non-Minimal supersymmetric Standard Model with $\tan\beta_{\text{mt/mb}}$ " Physics letters B 353 : 70-78 (1995)
10. Pandita, P.N. "Upper bound on the mass of the lightest Higgs boson in the supersymmetric singlet Majoran Model", Modern Physics letter A 10: 1533-1542 (1995).
11. Parida, M.K. and Purkayastha, B. "New lower bound on SU (4)_c -gauge boson mass from CERN - LEP data and $KL \rightarrow \mu e$ " Phys. Rev. D53. 1706-1708 (1996).
12. Parida, M.K. and Rani, M "Radiative corrections and uncertainties in see saw formulas for neutrino masses". Physics letters B, 1996.
13. Nongkynrih, P. Dkhar, P. S. and Khathing D. T. "Micronutrient Elements in Acid Alfisols of Meghalaya" Ind. J. of Soil Science 1996.
14. Bajpai, P.K. and Bajpai, R.P. "Bio-Physics Decay of Biophoton Emission from plant Tissues" Asian J. Physics, 5, 1-16 (1996).

Thrust Areas of Research:

Laser Physics, Nuclear Physics Particle Physics/High Energy Physics, Solid State Physics.

Research Programme/Research Project:

On going Research Projects : 7

New Research Projects:

- (i) The Department of Science and Technology sanctioned the project "Supersymmetry with extended gauge groups" under the Supervisions of Dr. Pandita.
- (ii) The Department of Atomic Energy sanctioned the project "Supersymmetric grand Unification" under the supervision of Dr. Pandita.
- (iii) Dr. (Mrs) Jyrwa: There is a need to standardize nuclear Data, hence the evaluatio of nuclear data is being pursued in Collaboration with BARC at Mumbai and Nuclear Data Section at Vienna.

Any other remarks:

Professor Shastry visited nuclear Science Center, New Delhi during January 1996 and gave a series of lectures on advanced quantum Mechanics and nuclear reaction to Pre-Ph.D. Students. Professor R. Singh was a member second Planning committee for DST-sponsored SERC schools and Workshops in Nuclear Physics, DST, New Delhi. Dr. Pandita was a visiting scientist at the Mehta Research Institute of Mathematics and Mathematical Physics, Allahabad in July 1995 and gave a seminar on "Lightest Higgs neutrino masses in supersymmetric theories". Dr. Pandita was Alexander von Humboldt Fellow Universitat, Kaiserslautern, Federal Republic of Germany, November 1995 to February 1996, and gave a seminar on the "Lightest Higgs boson and Neutralino masses in General Supersymmetric Theories". Dr. Pandita was a scientific visitor Universitat Wurzburg, Germany and gave a seminar on "Lightest Higgs boson and neutralino masses in general supersymmetric Theories". Dr. Parida visited International Centre for Theoretical Physics,

Trieste, Italy, 13th January to 11th March 1996 as ICTP, Associate Member and carried out a research in High Energy Physics. Dr(Mrs)B.Jyrwa visited BARC at Mumbai for one month in October 1995 for doing some collaboration work with the theoretical Nuclear Physics Division BARC Mumbai. Dr(Ms) Nongkynrih was awarded INSA visiting Fellowship.

CENTRE FOR SCIENCE EDUCATION

The Centre was established in 1985 with the object to develop a Scientific temper and spirit of enquiry amongst the younger generation, identify and cultivate their creative talent and to take the message of Science and Technology to the rural masses, in particular rural women.

Amongst the programmes of the Centre the focus has been on the following four :

- i) Popularisation of Science and Mathematics.
- ii) Enlistment and improvement of School and College Science inputs.
- iii) Research and Development programmes.
- iv) Awareness programmes.

Head : Dr. Man Mohan Singh

Courses Conducted :

Non-Formal Course on Computer Appreciation-4 months duration; Basic Programmes-14 months; Use of D Base III Plus-12 weeks; Word Processing with Orientation to Word Perfect-2 months;

Education Course-2 months; Course on amateur radio-12 months; Remedial Teaching on Botany, Chemistry, Mathematics, Physics and Zoology.

Other Activities :

Other activities during the year have been popularisation of Science and Mathematics through demonstration, fairs and exhibition such as those organised in Imphal and Kohima; participatory demonstration on the use of low cost teaching; amateur radion demonstration and popular and extension lectures.

Seminar/Symposia/Workshop Attended

Dr. Man Mohan Singh

- a) Project evaluation discussion of "Survey of General Perceptions of people per-

taining to SOLAR ECLIPSE and related beliefs organised by NCSTC DST at New Delhi.

b) International Conference of Gender Science and Technology -SAT 8 at Ahmedabad from 15th to 10 Jan. 1996.

c) International Meet organised by Common Wealth Secretariat, London on "Is Mathematics a Barrier to Learning of Science and technology amongst girls?" from 11 to 12 Jan. 1996 at Ahmedabad.

d) Two days national convention on 2nd March 1996 Universalization of Elementary Education held at Central Institute of Educational Technology, National Council for Educational Research and Training.

e) Three days national Consultation and Central executive Conference on Bharat Jana Vigyan Jatha at CIET/NCERT from 13th to 15th August.

Project and Schemes

a) The Pilot programme on "Training-cum-development was approved for financial assistance by the National Council for Science Technology innovation, New Delhi.

b) The Project of Second Imphal Science Fair and Design Development of Mirrors exhibits and some participatory Discovery Gadgets have been implemented. The gadgets have been installed. The operational cost of the project was provided by Manipur Association for Science and Technology. The project is supported by Department of Science and Technology & Environment, Govt. of Manipur and state Museum for sundry organisational support.

c) Centre was actively engaged in Rural Science Technology Transfer Programmes on Voluntary Health Association initiative.

Other Remarks:

Dr. Man Mohan Singh was appointed member of the Advisory Council for Science Popularisation Programmes of the Government of Manipur and of the GASAT-9 Gender and Science and Technology International, having membership of more than 50 countries. The Centre became a new institutional member of the National Council of Science and Technology Communication network.

VI

SCHOOL OF SOCIAL SCIENCES

The School of Social Sciences remained one of the largest Schools of the University. After the reorganisation of Schools it consists of the Departments of Sociology, History, Political Science and the Centre for Literary and Cultural Studies at Shillong and Psychology and Public Administration at Aizawl, Mizoram. The Office of the Dean of the School of Social Sciences functioned successfully inspite of the difficulties faced owing to the location of nearly half of its Departments at long distances from the headquarters at Shillong.

Academic activities of the Departments in the School have been going on successfully inspite of the handicaps and constraints. Some of the Departments have established their academic leadership with this region and outside. They are also now recognised for their contributions at the national and international level in their thrust areas - viz. the North East India.

CENTRE FOR LITERARY AND CULTURAL STUDIES

The Centre for Literary and Cultural Studies is now more than a decade old. During these years the Centre has made substantial progress in its research and teaching activities. It has completed a number of research projects while some are ongoing.

Head : Dr Soumen Sen

Faculty :

Name	Designation
Soumen Sen, M.A. (Cal), Ph.D. (Gau)	Reader
Miss. N.Ganguly, M.A. (NEHU)	Sr. Lecturer
P. Jhingan, M.A. (J.N.U)	Lecturer
3-Years Deploma in French (J.N.U)	

Courses conducted :

1. Certificate and Diploma Course in Folkloristics. Duration - one year (Two Semester)
2. Course in Folkloristics with Special reference to N.E. India in the M.Phil programme of the School of Social Sciences. Duration - One Semester.

Seminars etc organised :

1. Workshop on Poetry and Painting in collaboration with the Centre for Creative Arts from 5th to 13th June, 1995. Co-ordinator - Miss N.Ganguly.
2. Camp on Comparative Literature from 21st to 23rd March, 1996. Co-ordinator - Miss. N.Ganguly.

Seminars etc attended :

Dr. Soumen Sen

1. Attended a Seminar on Insurgency in N.E. India organised by North-East India Council for Social Science Research from 24th to 26th July, 1995.
2. Attended a Seminar on the Potentiality and Problems of Small Town in N.E. India organised by the North-East India Council for Social Science Research on 20th and 21st November, 1995.
3. Attended a Workshop on Folkloristics organised by the Department of Folklore Research, Gauhati University from 12th to 16th March, 1996.

Miss. N. Ganguly

1. Attended a Seminar on Shakespeare organised jointly by the Shakespeare Society (Eastern Region), and British Council Division, Calcutta, from the 25th to 26th April, 1995.
2. Attended an International Seminar from the 18th to 20th of March 1996, on Teaching Humanities : What is needed now, as a delegate. The Seminar was organised by the Central Institute of English and Foreign Language (Regional Centre) Shillong.

Mr. P. Jhingan

1. Attended the UGC Refresher Course in Linguistics held at Central Institute of English and Foreign Language, Hyderabad from 20th September to 10th October, 1995.
2. Presented a paper : 'Nongkrem Dance - Some patterns' in a Seminar - Cum Exhibition on the Timeless Tribal Art and Culture of North-East-India, organised jointly by the Indira Gandhi National Centre for the Arts, New Delhi and Arunachal Pradesh University 19 - 21 November, 1995.
3. Delivered a lecture on 'Use of Theatre for Educational Communication' at Assam Rifles Public School, Shillong for Workshop-Cum Training Programme for Teachers on 22nd July, 1995.

Publications :

Dr.Soumen Sen

1. 'Folklore and Ethnography in Tribal Settings', Anandam-Journal of the Anundoram Borooah Institute of Language Art and Culture. Vol. 2. 1995.

2. 'Tradition and Folklore : The Key Issues', Pondicherry Institute of Linguistics and Culture - PILC Journal of Dravidic Studies Vol. 5 : 2, July, 1995.

3. 'Uttaraadhunik Approach to the Matrix of Tribal Culture' (in) Tanushree Bhattacharya (Ed) The Uttaraadhunik - Trends beyond Modernism. Worthington, Ohio, U.S.A., February, 1996.

Thrust Area of Research :

Studies in Language, Literature and Culture of North-East India including semiotic and structural studies of literary and cultural phenomena; organising courses, seminars, workshop etc in relation thereto.

Research Programme / Research Project :

Mr. P.Jhingan

1. Conducting 'A Pictorial Study of Khasi Jewellery' - a project of the Centre.

Any other Remarks :

1. Occassional programme - the Centre organised a Talk by Ms. Sharada Ramanathan of the Ford Foundation on Folklore Studies on 30 March 1996.

DEPARTMENT OF HISTORY

The Department of History was established in 1974. Treating the discipline of history as Social Science it emphasis on the study of the peoples and regions in the context of their socio-cultural development with reference to India in general and the north eastern India in particular the Department was awarded Special Assistance Programme by the University Grants Commission for five year from 1995-96. The Department imparts training at the M.A, M.Phil, and Ph.D. levels.

Head : Professor Jai Prakash Singh.

Faculty:

Name	Designation
J.B. Bhattacharjee, M.A.,LLB,Ph.D (Gau) (On lien as V.C. Assam University, Silchar)	Professor
J.P. Singh, M.A.,Ph.D. (BHU)	Professor
Imdad Hussain, M.A., Ph.D (Gau)	Professor
M.S.Sangma, M.A. (Cal) Ph.D.(Gau) (Retired w.e.f. 1.1.96 Re-employed w.e.f 2.1.96)	Professor
D.R. Syiemlieh, M.A, M.Phil, Ph.D. (NEHU)	Reader
Ms. M. Momin, M.A., Ph.D. (JNU)	Reader
Ms. M.Sharma, M.A.(Gau),M.Phil.(JNU) Ph.D. (NEHU).	Reader
V.R. Rengsi , M.A., M.Phil. (NEHU)	Lecturer
Ms.C. Mawlong, M.A. (NEHU), PG Dip Arch (Delhi).	Lecturer
F.A. Qadri, M.A., M.Phil, Ph.D.(AMU)	Lecturer
Ms. A.N. Passah, M.A., M.Phil. (NEHU)	Lecturer

Student Intake:**a) Enrolment capacity:**

M.A. :	55
M. Phil. :	15

b) Actual Admission :

	SC /ST	Genl.	Male	Female	Total
M.A.	50	4	27	27	54
M.Phil.	6	2	4	4	8
Ph.D.	5	1	1	5	6

Degrees Awarded:

Ph.D. :

Priyam Goswami, "Industrialisation of Colonial Penetration in Assam in the 19th Century : A Sectoral Analysis of the Tea, Coal, and Oil Industries". Supervisor Prof. J.B. Bhattacharjee.

Courses Conducted:

M.A.

Capitalism and Colonialism (16th - 19th Century) Pre & Proto-Historic Societies, Ancient Societies, Evolution of Modern Indian Societies, Pre-Industrial Societies & Social Institutions, Imperialism and Nationalism, Historiography, Socio-Economic & Political Development in N.E. India, British Expansion in India, Political Theory & Institutions in Ancient India, Economic History of N.E. India, Social Changes in N.E. India, British Imperialism in India, Ancient Indian Social and Economic History, British Policy in N.E. India, Rise of Modern Japan, History of Guptas, Neolithic & Megalithic Cultures of N.E. India, Religion and Society in Medieval India, Making of Modern U.S.A., Christianity in N.E. India, Religion and Society in Ancient India, Introduction to Archaeology, Economic History of Modern India, Indian Nationalism, Government and Politics in N.E. India, Political Development in N.E. India, Iconography & Numismatics, Economy and Society in India (650- 1400), Agrarian Unrest in Medieval India and China (1800- 1949).

M.Phil.

Historical Thought, Historical Method, and Folkloristics.

Seminars/ Conferences/ Symposia/ Extension Programmes:

Organised :

- 1) U.G.C. Special Assistance Programme : One-day workshop on Examination Reforms, March 1996
- 2) Refresher Courses in History (U.G.C. Sponsored): Three courses in August 1995, November 1995, and March 1996 respectively.

Attended:

Dr. D.R. Syiemlieh attended the 16th Annual Session of the NEIHA at Assam University, Silchar. He read a paper, ' Holy Cross Mission in India with special reference to N.E. India' in a seminar on "Christian Missions in India" at Bombay, University. He also attended Research Guide Workshop organised by the American Research Centre, Hyderabad at Darjeeling, in August 1995.

Visiting Professors/ Fellows

Prof. S.R. Singh, retired Professor and Head, Department of History , B.R. Ambedkar Bihar University, Muzzafarpur, Bihar, was appointed as a Visiting Professor for one year.

Publications:

Singh, J.P. "On Assamese Folk-View of the British" in *NEIHA Proceedings*, XV Session, 1995.

Singh, J.P. "On a Verse of Gachal Inscription of Gopalavarman". *Visvambhara* (Professor V.S. Pathak, Felicitation Volume), New Delhi, 1995.

Singh, J.P. "Education in Ancient Kamrup" in *Professor A.P. Mathur Felicitation Volume*, Agra, 1995.

Singh, J.P. "On Skandhavara", in Professor *M.M. Sharma Felicitation Volume*, Guwahati, 1996.

Hussain, Imdad : "Assam: Unification and Roots of Division", in Datta Ray, B & S.P. Agarwal (ed.), *Reorganisation of North-East India since 1947*. New Delhi, 1996.

Hussain, Imdad : "Cachar Levy: The Myth of the Origin of Assam Rifles". *Journal of N.E. India Council for Social Sciences Research*. Vol 18, No. 2 (Oct), 1995.

Hussain Imdad: "Loose Political Control : Theory and Practice in the N.E. Frontier Region", in *NEIHA Proceedings*, XV Session, 1995.

Sangma, M.S.: "Presidential Address of NEIHA XV Session", in *NEIHA Proceedings*, XV Session, 1995.

Syiemlieh, D.R. : "Thomas Jones Injudicious Marriage," in *NEIHA Proceedings*, XV session, 1995.

Syiemlieh, D.R.: "The future of the Hill of N.E. India 1928-1947 Some British Views", in Datta Ray, B & S.P. Agarwal (ed.), *Reorganisation of N.E. India Since 1947*, New Delhi, 1996.

Sharma, M. : "Bias of Writing History: The Religious Variant" in *NEIHA Proceedings*, XV Session, 1995.

Qadri, F.A.: "Medieval Perception of North- East India", in *NEIHA Proceedings* XV Session, 1995.

Qadri, F.A.: "Waqif Marhum: Chand Yaden", *Quami Tanzeem*, (in Urdu) Patna: June 25, 1995.

Thrust Area of Research : Regional History

Research Programme/ Research Project:

The faculty were engaged on the following research projects under the Special Assistance Programme of the UGC.

1. Prof. J.P.Singh: Coinage of North-East India.
2. Dr. M. Momin : Inscriptions of North- East India.
3. Dr. F.A. Qadri : A study of Socio-Cultural Patterns of the Muslims in North-East

India.

4. Prof. Imdad Hussain: Resistance and Revolts in Tribal North East India in the Nineteenth Century.

5. Dr. D.R. Syiemlieh: British Administration in Hill Areas of North-East India.

6. Prof. M.S. Sangma : Christian Missions in North-East India.

7. Dr. M. Sharma : Middle Classes in North-East India.

DEPARTMENT OF POLITICAL SCIENCE

The Department of Political Science was established in 1974. Following an interdisciplinary approach, the Department conducts courses and research studies on socially relevant themes. It strives to inculcate, in the minds of the students, an awareness of the basic needs and issues of the country and tries to equip them intellectually to fulfil these needs. The Department imparts training at M.A.; M.Phil., and Ph.D. levels.

Head : Dr (Mrs) R Borgohain.

Faculty:

Name	Designation
B Pakem, M.A.(Gau), Ph.D. (Dib.)	Professor
R L Walli, M.A.(J&K),Ph.D.(JNU)	Professor
A.K Baruah, M.A.,Ph.D. (Panj.)	Professor
Ms. R Borgohain, M.A.(JNU), Ph.D.(NEHU)	Reader
L S Gassah, M.A.,M.Phil,Ph.D.(NEHU)	Reader
B J Deb, M.A.,Ph.D.	Reader
Ms. E Laitflang , M.A.,Ph.D.(NEHU)	Reader
K Debbarma, M.A., M.Phil (NEHU)	Lecturer
P Malngiang, M.A., M.Phil (NEHU)	Lecturer
S Sengupta, M.A., M.Phil (G.U.)	Lecturer

Student Intake:

(a) Enrollment capacity:

M.A. :	40
M.Phil :	10

(b) Actual Admissions:

	SC	ST	Genl	Male	Female	Total
M.A.	2	35	3	20	20	40
M.Phil.	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D	Nil	3	2	1	4	5

Degrees Awarded:

M.Phil:

Depe Naro, "Committee System in Nagaland Legislative Assembly: A Case of Public Accounts Committee", Supervisor Dr. R. Borgohain.

Jayanti Shadap, "The Hill State People's Democratic Party (HSPDP) Its role in Meghalaya Politics (1968-79)", Supervisor Dr.L.S.Gassah.

Y. Honili Sema, "Electoral Politics in Nagaland. A Study of the 1993 Assembly Elections in 35th Zunheboto Assembly Constituency", Supervisor Dr.R. Borgohain.

Usha Verma, "Crisis in Socialism", Supervisor Dr. B. J. Deb.

Ph.D.

Wanweiroy Kharlukhi, "An Historical Analysis of the Political Development in Jaintia Hills (1835-72)", Supervisor Dr B Pakem.

T.T.Hoakip, "The Kuki Chieftainship and its Changing Dimensions", Supervisor Dr. B.J. Deb.

Courses conducted:

Political Theory (The Classical traditions), Theories and Concept in Public Administration, Government and Politics in India, Theories of International Politics, Political Theory (The Liberal Democratic Theory and Conservatism), Issues in Public Administration, Socio-Economic Basis of Indian Political System, Problems of International Politics, Political Theory (Contemporary Marxist Theory) and Modern Political Analysis, Contemporary Political Theory and Major Issues in Comparative Politics.

Optional:

Traditional Government and Politics of the Hill Areas of North East India, International Law, Issues in Indian Administration, Research Methodology, Government and Politics of the Hill Areas of North-East India, International Organisation, Political Sociology, Modern Indian Political Ideas, Foreign Policy Studies and Disseratation (in lieu of one course).

M.Phil : Contemporary Political Theory, Research Methodology.

Seminars/Conference attended :-

1. Dr. R. Borgohain presented a paper, "The Indian State of Decentralisation" at the 4th Annual Conference of NEIPSA. She presented a paper, "Identity and Identity Assertion-Some Issues", in a National Seminar on "Identity, Conflict and Nation Building". She also read a paper, "Grass root Politics, A Critique of Rajani Kothari," at the 5th Annual Conference of NEI Political Science Association.

2. Dr. L. S. Gassah attended 16th Annual Conference of NEIHA at Assam University, Silchar and at the 5th Annual Conference of NEIPSA at U.C.C., Barapani. In the conference at Silchar he presented a paper on "Women and Politics in Meghalaya"; read a paper on "Traditional Institutions and Parliamentary Democracy".

3. Dr. B.J. Deb presented papers 'Student Politics in Mizoram', in a National Seminar on "Student Movement", at NEHU; 'State, Ideology, and Insurgency, (co-authored with Dr.R.Borgohain) in a National Seminar on "Insurgency", organised by the NEICSSR; (on Panchayats act as grass-root Organisations, at the 4th Annual Conference of NEIPSA, at UCC, Barapani.

4. Mr. P. Malngiang presented a paper in the Sub-Regional Workshop on "Panchayati Raj", organised by the ICSSR. He presented a paper in the 5th Annual Conference of NEIPSA, at UCC, Barapani.

Publications :

Walli, R.L. 'Irrelevance of Non-Alignment' *Journal of Politics*, Vol. XXXIII, No. 3.

Baruah, A.K. 'Indian State and the Smaller Nationalities of North East India' in G. Hargopal (ed) *The Character of the Indian State*. Shimla : IIAS, 1995.

Gassah, L.S. 'Cadastral Survey of Land in Meghalaya : A Right Decision But Difficult to Implement', *Journal of NEISSR*, Oct, '95.

Deb. B. J., *Regional Development in North East India : Issues and Prospect*. New Delhi : Reliance, 1995.

Sengupta, S. "Left Student Movement in Meghalaya" in *Proceedings of the North East India Political Science Association*, 1995.

Thrust Area of Research : Government & Politics of North East India.

Research Programme/Research Project :

1. Prof. A.K. Baruah was engaged in the following research projects:

(i) Inventory of Youth Organisations in India (1996); sponsored by the NERC-ICSSR, Shillong.

(ii) National Election Survey; in collaboration with the Hindu CSDS.

(iii) Extremist Politics in North-East India; sponsored by the ICSSR, New Delhi.

2. Dr B J Deb prepared a report on Administration Landmarks in Meghalaya, on behalf of the IIPA, New Delhi.

DEPARTMENT OF PUBLIC ADMINISTRATION (AIZAWL)

The Department of Public Administration in the Mizoram Campus, Aizawl was started in June 1985. Teaching in the following Post-Graduate Programmes began from 1987 onwards :

- I. A Four Semester Master Degree Programme.
- II. A Two Semester Post-Graduate Diploma Programme.
- III. A Two Semester Master Degree Via Diploma Programme.

The developmental themes receive emphasis in the over-all structures of the three Programmes with exposure to theoretical concepts as well as practical problems. The department has plans to start an M.Phil. course.

Head : Dr. S.Jawaid (Reader)

Faculty :

Name	Designation
R.N. Prasad, M A Ph.D.(Bihar)	Professor
S. Jawaid , M.A.(AMU & BROOK Univ.)Ph.D.(AMU).	Reader
Capt.C.Lalkima, M.A. (Osmania) Ph.D. (Gau).	Reader
Lalrintluanga , M.A.(NEHU) M.Phil (NEHU)	Lecturer
Kalpna Das, M.A. M.Phil (UTKAL)	Lecturer

Student intake :

(a) Enrolment capacity : M. A. : 41

(b) Actual Admission :

SC/ST	Genl	Male	Female	Total
41	-	35	6	41
		85		

Ph.D. - 1

Courses conducted :

I. M.A. (Compulsory)

Fundamentals of Public Administration, Indian Administration Structure & Processes, Public personnel Administration with reference to Britain, U.S.A. & France, Economic & Financial Administration in India, Development Administration in India, Office Management in Government, Theories of Bureaucracy, Government & Politics of the Hill Areas of North-East India, Administrative Thought, Public Policy Analysis.

Optional :

Political Theory, Indian Government & Politics Social Structure & Process. Administration of Public Enterprises in India, Research Methodology, Rural Development Administration in India, Tribal Development Administration in India, Comparative Public Administration, International Administration, Theory of Practice of Local Government, Urban Development Administration in India, Administrative Law & Tribunals, Labour Administration in India, Cooperative Business Organisation, Social Administration in India.

II. M.A. Via Diploma :

Fundamentals of Public Administration, Indian Administration Structure & Processes, Public Personnel Administration with reference to Britain, U.S.A. & France, Economic & Financial Administration in India, Development Administration in India, Office Management in Government, Theories of Bureaucracy, Government & Politics of the Hill Areas of North-East India.

III. Post Graduate Diploma :

Fundamentals of Public Administration, Indian Administration Structure & Processes, Public Personnel Administration with special reference to Britain, U.S.A. and France, Economic and Financial Administration in India, Development Administration in India, Office Management in Government, Theories of Bureaucracy, Government and Politics of the Hill Areas of North-East India.

Publications :

Professor R N Prasad :

1. "Administration of Justice in Mizoram" and "New Panchayat System in India and its Relevance in Mizoram" in R.N.Prasad and A. K. Agarwal (Ed.) Landmarks: A Study of Public Administration in Mizoram, Lengchhawn Press, Aizawl, 1995 (Published by IIPA,

Aizawl Local Branch).

2. "The Pattern of Rural Government in Mizoram : Retrospect and Prospect" in P.S.Datta (Ed.) *The North-East and the Indian State : Pradoxes of a Periphery*, Vikas Publishing House, New Delhi, 1995.

DEPARTMENT OF PSYCHOLOGY

Psychology as a subject for the M.A. degree in the North-Eastern Hill University, Mizoram Campus, Aizawl was introduced in 1983 and the department started functioning with three faculty members (Professor:1, Reader:2). Subsequently the teaching faculty was strengthened with appointment of one Lecturer in 1989. Apart from its teaching programme the Department extends psychological services to the community.

Head : Dr. L. N. Singh

Faculty:

Name	Designation
A.N.Jaiswal , M.A. (BHU) Ph.D.(Kasi Vidyapeeth)	Professor
L.N.Singh, M.Sc(BHU), Ph.D.(BHU)	Reader
Mrs.Zokaitluangi , M.A. (NEHU) M.Phil.(Delhi).	Lecturer

Student intake :

M.A. :

- (a) Enrolment Capacity : 10
- (b) Actual Admission :

SC	ST	General	Male	Female	Total
0	15	3	2	16	18

Courses conducted:

Experimental Psy., Methods of Psychological Research, Social Psychology, Devel-

opmental Psychology, Physiological Psychology, Psychological Scaling and Testing, Psychology of Personality, Behaviour Pathology, Educational Psychology, Psychology of Socially Disadvantage children, Ecological and Cross Cultural Psychology/Dissertation, Clinical Psychology, Neuropsychology/Dissertation.

Visiting Professors/Fellows: One

Publications :

(i) Vanlalhraia, C.; Rai, R.N., and Singh, L.N. (1996). "Generation Conflict in Mizo Society : A Pilot Study". Paper presented in Seminar on Urbanisation in Mizoram. Department of Geography, Pachhunga University College, North Eastern Hill University, Aizawl, on 17th April, 1996, ABSTRACT NO.10.

(ii) Zokaitluangi, and Singh, L.N. (1996). "Attitudinal Patterns in Relation to Development, Employment and Beneficiary: A Study Across Mizo Sub-Culture". Paper presented in Seminar on Urbanisation in Mizoram. Department of Geography, Pachhunga University College, NEHU, Aizawl, on 17th April, 1996, ABSTRACT NO.13.

(iii) Zokaitluangi, Easwaramoorthy, M., and Sen, A.K. (1994). "Personality, Values, Sex Attitude and Sex Behaviour among Three Ethnic Groups of College Students". *The Mind*, Vol. (I&II) 31-35.

Study Tour/Field Trips of Students:

The Department conducted an educational Tour Programme for students in 1995.

Thrust Area of Research:

Experimental Psychology/Clinical Psychology.

DEPARTMENT OF SOCIOLOGY

The Department was established in 1976 as the Department of Sociology and Anthropology. The Anthropology stream was separated in 1981 with the establishment of a separate Department of Anthropology. Keeping social change as its academic thrust the Department focusses instructions on issues relating to social inequalities movements, ethic relations, occupational differentiation, demography, ecology, and environment. The department imparts training at M.A.; M. Phil; and Ph. D. levels.

Head : Dr C Nunthara.

Faculty :

Name	Designation
M.N.Karna, M.A. Ph.D (Patna)	Professor
A.C.Sinha, M.A. (Ranchi), Ph.D IIT, (Kanpur)	Professor
C.Nunthara, M.A., Ph.D. (Delhi)	Reader
P.M.Chacko, M.A., Ph.D. (Delhi)	Reader
Nikhlesh Kumar, M.A. (Delhi), Ph.D. (NEHU).	Reader
C.L.Imchen, M.A., Ph.D. (JNU)	Reader
I.Lanu Aier, M.A., Ph.D.(NEHU)	Lecturer
A.K.Nongkynrih, M.A., M.Phil (NEHU).	Lecturer

Student Intake

Enrolment Capacity :

M.A. M.Phil. Ph.D.

40 15 5

Actual Admission :

	SC/ST	Genl	Male	Female	Total
M.A.	36	11	16	31	47
M.Phil.	20	9	6	23	29
Ph.D.	23	7	19	11	30

Degrees Awarded :

M.Phil :

1. Mr. T.M.Longkumer, "Subaltern Approach in the Study of Naga Society". Supervisor Professor A.C.Sinha.
2. Mr.Andrew H.Vanlaldika, "Festivals and Dances of the Mizos: A Case Study". Supervisor Professor A.C.Sinha.
3. Ms.Rekha M.Shangliang, "Environmental Management in the Socio-Economic Dimension in Meghalaya: A Case study in Mawsynram Village".Supervisor Dr. I. Lanu Aier.

Courses conducted :

M.A.

Sociology of Kinship, Sociological Theories, Social Stratification in India, Methodology of Social Research, Sociology in Religion, Urban Sociology, Polity and Society, Economy and Society, Tribal Movement, Industrial Sociology, Social Change, Sociology of Education Entrepreneurship and Management and Social Structure and Political Power.

Seminars/Conferences/Symposia/Extension Programmes :

Attended :

1) Prof. A C Sinha participated in a Workshop on "Regional Co-operation on Flood Warning", organised by Duryoj Nivaran and Bangladesh Disaster Preparedness Forum, at Bangladesh University of Engineering and Technology. He presented a paper on 'Ethnic Movements in North-Eastern Frontier Region' in the Study Week on "Ethnic Movements in Contemporary India" organised by the Indian Institute of Advanced Studies, Shimla. He participated two Regional Workshops at the India International Centre, New Delhi on "Flight to Nowhere: Conflicts and displaced Peoples in and around India's North-East".

2) Dr. P.M. Chacko gave a talk on 'Matriliny among the Khasis', in Departmental Seminar of the Department of Sociology, Bangalore University, Bangalore.

Publications :

Sinha, A.C. : "Review of K.N. Sharma, *Nepal's Economic Development Politics: Political Implications*" in *Sociological Bulletin*, Vol.44, No.1, 1995.

Aier, I.L. : "Christianity and Work Ethic: A Study of the Naga Society" in Fr. Joseph (ed.), *Seminar Proceedings of Christianity in North-East India*. Shillong: Sacred Heart College, 1995.

Thrust Area of Research :

The Department decided to emphasise on Social Change as its academic thrust, in which most of the Researches are conducted. In this context the academic thrust of the Department has been split into : (a) Emerging Social Inequality; (b) Political dynamics; (c) Occupational differentiation; (d) Social Movements; (e) Ethnic Identity and Relations; and (f) Demography, Ecology and Environment.

Research Programmes / Research Projects :

Professor A.C.Sinha completed a research project on "The Neglected and Juvenile Delinquent Children : Evaluation of Services and Rehabilitation Programme under the Juvenile Justice Act, 1986 in the States of Bihar and Orissa", sponsored by the Ministry of Welfare, Government of India, New Delhi.

Professor A C Sinha became member of the Editorial Advisory Committee of the *Indian Sociological Bulletin*. Journal of the Indian Sociological Society and was elected a member of the Executive Committee of the Indian Association of Social Science Institutions (IASSI) for 1995-1997.

VII

INSTITUTE AND CONSTITUENT COLLEGE INSTITUTE OF SELF ORGANISING SYSTEMS AND BIOPHYSICS

It is a purely research Institute within the University system dedicated to undertake interdisciplinary research activities in newly emerging and unconventional areas. The primary aim of the Institute has been to investigate biological phenomena using techniques of physical sciences and to train students who can face challenges encountered in pushing the frontiers of science. The Institute is not permitted to offer M.Sc. courses and is dependent upon the students from various departments for its research programme. It is a cultural synthesis that generates cultural shocks and animosity. The faculty members are therefore, encouraged to pursue diverse research activities with the hope that proximity and interaction should help to evolve programmes of interdisciplinary nature. The core faculty members of different background and training collaborate and interact with the academic persons of other departments like Mathematics, Physics, Biochemistry, RSIC, Computer Centre, Economics, etc. besides pursuing research in their own disciplines. They also interact with national institutions outside Shillong and are successfully collaborating with them. The current activities of the Institute are in the measurements of biophotonic activity and its possible connection with squeezed states, hormonotoxin and drug targeting, characterizing the inherent biological oscillators in the rhythmic activities, acoustic communication in frogs, spectroscopic determination of the structure of proteins and crystals, simulation of carcinogenesis and its probable mechanism, modelling of neuronal and immunological activities.

Director : Vacant

Faculty :

Name	Designation
Dr. R.P. Bajpai, M.Sc. (Aligarh), Ph.D. (Glasgow)	Professor
Dr. Vinod Singh, M.Sc., Ph.D (Kanpur), Dr. Satish Kumar , M.Sc.(BHU), Ph.D.(Utkal)	Reader Reader
Dr. Debjani Roy, M.Sc. (Gau), Ph.D. (NEHU)	Reader

Student Intake:

- (a) Enrolment capacity : 4
(b) Actual admission : 2

	(SC/ST)	Gen.	Male	Female	Total
Ph.D.	0	2	1	1	2

Degrees Awarded:

M.Phil:

- (i) Miss Priyoasha Chingakham (Sup. Dr. S. Kumar) "Biophoton Emission and Squeezed States"
(ii) Ms. Syeda Rezina Ahmed (Sup. Dr. Debjani Roy) "Reproductive Strategies, breeding behaviour and chorus formation in annurans"

Ph.D.:

- (i) Mr. Anil Kumar Mavila (Sup. Dr. V. Singh) "Hormonotoxins: Synthesis, Characterization and Bioefficacy of some oLH-Gelolin Congugates"

Course Conducted: M.Phil and Ph.D.

Methods of Science, Self Organising Systems, Living State and Biophysics of Living Organisms and Applied Computer Science.

Seminar/Symposia/Workshop

Attended

1. Dr.(Mrs) Debjani Roy, Invited Special Lecture at the National symposium on Animal Behaviour and XXIV Annual Meeting of the Ethological Society of India, Dharwad, January 18 to 20, 1996.

2. Dr. (Mrs) Debjani Roy, invited talk at Centre for Ecological Studies, Indian Institute of Science, Bangalore on "Acoustic Communication in Frogs" in July 1995.

3. Dr.(Mrs) DebjaniRoy,invited talk at Centre for Ecological Studies, Indian Institute of Sciences, Bangalore on "Acoustic Communication : a guiding factor in the social structure of Rana erythraea" in March 1996.

4. Miss Bijoylakshmi Borah and Miss Bakordor W. Bannett attended the workshop on Evolutionary Biology held at Mangalore University December 22-28, 1995, sponsored by DST, New Delhi and IISc., Bangalore.

5. Miss Bijoylakshmi Borah presented the paper entitled "The call patterns of ten amphibian species from the north eastern region" at the XXIV Annual Meeting of the Ethological Society of India and National Symposium on Animal Behaviour, Dharwad, January 17-20, 1996. She was awarded the best student ETHOLOGIST award along with cash

prize.

6. Mr.B.Pal attended International Seminar cum School on Macromolecular Crystallographic data held in Calcutta from 16 to 20 November, 1995.

7. Mr. B. Pal attended the College on Biophysics at ICTP Trieste from 4 to 29 March, 1996.

Publications:

1. Bajpai, R.P. and Rai, S.N."Retrieval Characteristics of multiple site states networks with self-interaction". Computer Phys. Communications: 51-58 (1995).

2. Roy, D., Borah, B., and Sarma, A. "Analysis and significance of female reciprocal call in frogs". Current Science 69 (3): 265-270 (1995).

3. Bajpai, P.K., Pal, B., and Basu Baul, T.S. "Structural Characterization of some Quinolin-8-ol-containing azo dyes in solid and solution state as probed by resonance raman fourier transform IR and electronic spectroscopic techniques". Jour. Raman Spect. 26, 351-361 (1995).

4. Roy, D., Borah, B., Sarma, A., and Bennett, B.W. "Significance of biometric ratios and bioacoustic analysis in amphibian systematics" XXIV Annual meeting of the Ethological Society of India and National Symposium on Animal Behaviours, Dharwad 30-31 (1996).

Thrust Area of Research :

Biophotonic Emission, Squeezed States, Immunology, Neuroethology and Developmental Physiology.

Research programmes:

Continuing DST SERC project of Dr.(Mrs) Debjani Roy entitled "Acoustic Communication in Frogs" for 3 years from November 1993 to 1996.

Any other remarks:

(a) Prof. R.P. Bajpai visited International Institute of Biophysics, Germany from September 1995 to January 1996. He measured there the conditional probability of zero photon emission in the range 10 fs to 10 ms in delayed luminescence of leaves and showed it to be Poissonian. The measured result was reproduced in the New Year greeting card sent by the host institution.

(b) Dr.(Mrs) Debjani Roy continuing UGC Visiting Associate for 2 years from October 1994 to October 1996 to work at the Centre of Ecological Studies and the Developmental Biology and Genetic Laboratory, Indian Institute of Science, Bangalore.

(c) Dr.(Mrs) Debjani Roy was made a member of the Asian Amphibian Networking Project under the Declining Amphibian Population Task Force IUCN - The World Conservation Union Species Survival Commission.

(d) Dr.(Mrs) Debjani Roy was recognised as a guide for the Ph.D. degree of the University of North Bengal,

(e) The Publication of Roy, Debjani et al (1995) in Current Science, was selected for

the cover page of the Current Science, August 10, 1995. It was also selected for the Editorial Highlight "In this issue".

(f) Prof. R.P. Bajpai is currently one of the Vice Presidents of The Indian Association of Physics Teachers.

UNIVERSITY COLLEGE

The Pachhunga University College at Aizawl was the only college maintained by the University. The Programmes offered were: Pre-University in Arts, Science, and Commerce, Bachelors in Arts, Science and Commerce (Pass and Major). The Principal was Dr. C. Thanthianga and the total faculty strength was 68 teachers.

Student Intake:

(a) Enrollment Capacity: 1243

(b) Actual Admission :

	SC / ST	Genl	Male	Female
P.U. (A) NIL	1155	88	146	119
P.U. (SC)			150	75
P.U. (COM)			60	17
B.A.			202	139
B.SC.			194	99
B. COM			33	9

A group of 80 students visited New Delhi during the year on a study tour. The College had eight Visiting Teachers/ Fellows.

Research

A major area of research was in "Solid State Physics concerning mainly Photoemission Theory" in the Department of Physics under Dr.R.K. Thapa. Dr.Thapa completed as Principal Investigator the 3- years project "Calculations of Electronics Fields near the surface of Solids and its photoemission" sanctioned by the department of Atomic Energy, Government of India, Bombay. A second project "Formation of the initial state wave function and its use with photoemission study and semiconductor incorporating the spatially dependent photon fields" of the Department of Science and Technology was taken up in March 1996.

Publications:

- (i) Thapa, R.K. and Kar, N., "Photocurrent calculations in beryllium using local dielectric model" Phys. Rev. B 51, 17980 (1995).
- (ii) Thapa, R.K. and Kar, N., "Kronig-Penny model treatment of photoemission from silicon", Surface Science, 338, 138 (1995).
- (iii) Thapa, R.K. and Davison, S.G., "Electromagnetic fields at metal surfaces", Indian Jour. Pure and Appl.Phys. 34, 118 (1996).

VIII

STUDENTS SERVICES AND AMENITIES

STUDENTS WELFARE

The Office of the Dean of Students's Welfare continued to serve as the nodal agency for student services and their welfare. Though largely concerned with the Shillong Campus the office oversaw and coordinated student activities in the Aizawl Campus through teachers given charges of these functions. Throughout the period under review Dr. David R. Syimelieh, Reader in History, held charge as Dean of Students Welfare.

As in previous years a major concern of the office was the management of the residence of the postgraduate students and research scholars. In the Shillong Campus admission to and occupancy of the halls of residence was as follows:.

Name of Hostel	Year	Actual intake capacity of each hostel.	Actual No.of students who are provided hostels accommodation with respect to the following.		
			Genl.	ST/SC	Total
1. P.G. Women's Hostel-I.	1995-96	48	11	35/2	48
2. P.G. Women's Hostel-II.	1995-96	60	15	42/3	60
3. Saramati Hostel (Men)	1995-96	48	9	39/ x	48
4. Japfu Hostel (Men)	1995-96	90	27	60/3	90
5. Sohpetbneng R.S. Hostel (Men)	1995-96	48	18	28/2	48
6. Chhinlung R.S. Hostel (Men)	1995-96	48	12	36/ x	48
Total Men		= 234			
Total Women		= 108			

The Office also coordinated the study tours of eight academic departments. the number of students who undertook the tours and the amount sanctioned for each department is indicated below:

Name of the department	No. of Students.	Places of visit	Amount
1. Mathematics	30	Bangalore, Goa	Rs.42,000/-
2. Zoology	16	Puri, Bhubaneswar	Rs.23,360/-
3. Economics	30	Bombay, Goa	Rs.62,400/-
4. Botany	18	Darjeeling	Rs. 8,100/-
5. - do -	18	- do -	Rs.29,610/-
6. Chemistry	28	Bombay, Bangalore	Rs.34,000/-
7. Geography	30	South India	Rs.49,500/-
8. Library & Information Science	40	Delhi	Rs.41,460/-

In addition to organising the Annual University week which included sports and games and cultural programmes, and for which a sum of Rs.30,000/- (Rupees thirty thousand) has been sanctioned, the office provided assistance for the following:

1. Inter-Departmental Activities organised by the Zoonic Study.
2. Handique Memorial Volleyball Tournament.
3. RM Table tennis Tournament.
4. Sports and games of School of Life Sciences.

A sum of Rs. 4,500/- was sanctioned to the postgraduate Students to enable them to participate in the inter-college tournaments. Postgraduate student activities were facilitated by the appointment on transfer from Sports Department, of an Assistant Director of Sports.

During the period under review 83 NEHU scholarships, including 3 to ST Students, were sanctioned. There were no applicants for assistance under the Students' Aid Fund.

SPORTS AND GAMES

The activities under the general supervision of the University Sports Board and organised by the Department of Sports have been primarily three : Viz; 1) Inter College Tournaments. 2) Hosting of the East Zone Inter University Tournament for Hockey (MENS). 3) Participation in Inter University Tournaments.

The Inter-College tournaments were organised for convenience under (i) single zone basis and (ii) two zones basis. The disciplines in which tournaments were held on a single zone were as follows :-

Disciplines**Location**

Basket Ball (Men)

Shillong.

Boxing

Hockey & Judo

Aizawl

Of these Boxing and Judo, which are extremely popular in the North-East, had been introduced for the first time. In the inter-zonal tournaments football, volleyball, table tennis, badminton and chess were conducted simultaneously at Shillong and Aizawl, and the Zonal champions or qualifiers met in the Inter-Zonal finals held at Aizawl.

For the First time NEHU hosted the East Zone Inter University Hockey (Men) Tournament at Aizawl. Fourteen universities of the Zone participated. Ranchi University were winners and the NEHU team runners-up. At the Inter University Zonal Final held in February 1996 at the Guru Nanak Dev University, Amritsar, NEHU team achieved fourth position.

NEHU teams took part in six disciplines in the Inter University tournaments. The disciplines and the position achieved in each is indicated below:

Football	- Qr. Final
Volley Ball	- Pre- Qr. Final
Table tennis	- 3rd Round.
Badminton	- 2nd Round.
Basketball (W)	- Pre-Qr. Final.
Basketball (M)	- Qr. Final.

Professor M .P. Mahajan was in charge of the Department of Sports and also Secretary Sports Board. The Assistant Director of Sports, Mizoram Campus was F. Lawmkima.

NATIONAL SERVICE SCHEME

The enrolment strength of NSS volunteers during 1995-96 in Meghalaya was 7724, with 4683-male and 3041-female. Twenty colleges and a Post Graduate unit had total of 73 units. There were 33 programme Officers looking after these units. Mizoram had 18 colleges having NSS units with 34 programme officers looking after them.

The main objective of NSS, i.e. development of the personality of the students through community service, was intended through the two main programmes of NSS, the Regular Activities and the Special Camps. In Meghalaya, the Regular Activities which were carried out in the vicinity of the respective College campus or their surroundings. These Programmes included cleaning drives, beautification of the Campus, levelling of playgrounds and organising awareness campaigns on social evils, emphasising on the danger of drugs, alcohol and smoking. The students and the public were also made aware of the dangers of AIDS

by means of posters and lectures.

In Mizoram the student volunteers constructed bus shelters and public urinals. They also had awareness programmes on the damages of social evils and AIDS.

In the special Camp Programmes which involved a 10 day camp at the adopted villages of the Colleges, activities that are taken up depend on the theme as directed by the Ministry of Human Resource Development. The Theme for the year was "Youth for Sustainable Development", with a focus on Wasteland Development and Watershed Management. However, other programmes which serve the needs and priorities of the villages were not overlooked. In Meghalaya programmes on Environment were taken up, with afforestation taking first priority. The clearing of jungles around the villages and specially at the water points were taken up. Health programmes like sanitation and guiding of villagers on civic sense and health and hygiene were also taken up. Self-sufficiency schemes were encouraged. The volunteers also aided various social organisations on programmes relating to the local people's requirements. The volunteers also created an awareness amongst the villagers on the need for National Integration.

In Mizoram the programmes on wasteland development and watershed management was taken on a big scale, with Check-dam building, pit and well digging, construction of drains and footpaths being constructed. Cultural exchange with the local youths were taken up with a view to promulgate communal harmony.

The NSS Cell NEHU, has lately gained importance for being the centre chosen for organising training on AIDS awareness, for the North Eastern States.

IX

CENTRAL SERVICES

COMPUTER CENTRE

The Computer Centre provided computation facility to faculty members, research scholars and students of the University, and conducted training programmes in computer related subjects. At present there is a VAX 3100-40 computer system with nine terminals and three Personal Computers. Utilisation of the Computer system was on the average about 8 hours per day. The total number of users per day was ten. Ninety per cent of the machine time was devoted to research and teaching while ten per cent was devoted to other works.

Head of Centre : Dr. S.N. Rai

Faculty:

Name	Designation
S.N. Rai, M.Sc., Ph.D. (BHU).	Head
T.K. Sinha, M.Sc. Physics (BHU), M.S. Physics & M.S. Biophysics (Cincinnati, USA), Ph.D. (NEHU)	Lecturer

System Analyst

P. P. Dey, B.Tech, REC, Warangal.	Sr. System Analyst
S. Ghosh, M.E., B.E. (Jadavpur)	System Analyst
Ms. B. Rynjah, B.Tech, (Kakinada)	System Analyst

Course Conducted:

(a) Computer in Library Management:

March 1995 - June 1995 : M. Lib. students

March 1996 - June 1996 (on going) : M. Lib. students

(b) "Numerical Methods in Programming" to M.Sc. and Pre-Ph.D. students.

March 1995 - June 1995 : Physics and Chemistry Departments

Other Activities:

M.Sc. (Chemistry) - IV semester students on specific computer applications.
Provided computation analysis for State Resource Centre, NEHU on data pertaining to literacy in Meghalaya, Arunachal Pradesh and Mizoram.
Computerised word processing for the Annual Report of NEHU 1995-96.
Dr. S.N. Rai delivered lectures in Refresher Courses of various Departments.

The Centre provided technical expertise for:

- (i) Library Automation
- (ii) Establishing of E-mail facilities in the University

Visiting Professor/ Fellow:

Professor R.J. Buenker, University of Wuppertal, Germany, visited the Centre in November, 1995.

Publications:

R.P. Bajpai and S.N. Rai. "Retrieval Characteristics of Multiple Site States Net works with Self Interaction". Computer Physics Communications 88 (1995), 51.

Seminars Attended:

Dr. T.K. Sinha, Lecturer in Computer Centre attended the International Seminar on Fault Tolerance at IIT Madras from 19th to 21st December 1995 and presented two papers entitled "Echo Check Protocol for faultless transmission in extremely noisy environments" and "Fault Tolerant Transmission Objects".

LIBRARY

During the year, 3289 volume of books were added to the collection. The total collection of books and bound periodicals in the library now stands as follows

1. Humanities & Social Sciences,	
Environmental Sciences	95002
2. Physical Science	14203

3. Life Sciences	12235
4. Others	23954

Total Number of books :	145394
5. Bound periodicals:	34226

Total	179620
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In addition 2728 volumes of bound periodicals were added taking the collection of bound volumes of periodicals to 36954. The Library subscribed to 416 foreign and 373 Indian Journals.

Application of Funds for the Library

Staff (Approx.)	70 Lakhs
Books	4 Lakhs
On Account grant for books	10 Lakhs
Books for the Dept. of Commerce	0.3 lakhs
Periodicals	60 Lakhs
Periodicals for the Dept. of Commerce.	0.5 Lakhs

In addition to it, the library also received a special grant of Rs. 82.82 lakhs from UGC for enhancing the library facilities through computerization and networking during 1994-95, which was utilized during the year. Out of which back volumes of periodicals worth Rs. 4.5 lakhs were also ordered.

Use and Users services

Total registered members	2901
Average daily consultation of the Library.	382
Average daily issue of books	322
Sitting arrangement for users	200

Teachers of the affiliated colleges are also members of the Library, and Honours students from the colleges also consulted the library. Apart from these, resources of the library were extensively used by Ph.D. scholars and teachers from the whole of North-Eastern India, as the holdings publication on the region is one of the richest in the North-eastern region. The Library also provided reference photo-copying and bibliographical services on demand. The Documentation section has a collection of about 4000 articles on North-East India in card form, and the collection is being updated continuously. The Section also maintains huge collection of about 1000 volumes of Census reports, microfiche of 1871-1951 census of India, and a good collection of Government publications.

Mizoram Campus Library

In the Mizoram Campus Library a total of 1649 vlumes were acquired during the year. The number of journals subscribed to, was 77 numbers. Shri. K.M.Zakhuma, Assistant Librarian was in charge of the Mizoram Campus Library.

Seminars and Conferences attended:

Dr Lalit P Pathak

Attended a seminar on *Changing Nature of Reference Service in Libraries* by USIS, Calcutta, and gave a talk on "Implementation of INFLIBNET programme in North East India" from 10-11 July 1995.

Attended IASLIC conference on *Information Technology Products of 1990's and Library and Information Centres*, held at Lucknow University, from 26th to 29th December, 1995.

Invited to attend the Third Workshop on Management of Computerized Libraries organised by INFLIBNET programme, Ahmedabad from 6-14 February, 1996, and Third National Convention CALIBER 96 on Library Database Management at M S University, Baroda during 15-17 February, 1996.

Publications:

Lalit P Pathak "Sociology schedule in the DDC: filiatory structure, terminology, categorization and concept representation" *Knowledge Organization: Journal of the International Society for Knowledge Organization* (published from Frankfrut, Germany) 22 (3-4), 1995: 148-158.

MEDICAL FACILITIES : HEALTH CENTRE

The Health Centre located at Bijni Complex in the city remained the principal centre for looking after the general health of the University employees, their dependents and the students. A clinic at the Campus in Umshing catered to the resident students, employees and dependents.

During the period under review the Senior Medical Officer, Dr.(Ms) M.Synrem, MD was the head of the Health centre. other medical officers were:

1. Dr. V. S. V. Prasad, MBBS, Senior Medical Officer.
2. Dr. (Ms) M. Marwein, Resident Medical Officer.

A Health centre at Azawl campus, managed by a Senior Medical Officer and assisted by para - medical staff, catered to the needs of students, teachers , employee and dependents of that campus.

The facilities provided at the Health Centres, including that at Aizawl were:

1. Consultations.
2. Dressing.
3. Injections.
4. Vaccinations.
5. Minor Surgeries.

The medical and para-medical staff of the centres, in addition to their normal duties had also attended to the needs of the sports Departments during tournaments, refresher and other courses organised by the University and student programmes such as NSS Camps.

UNIVERSITY PUBLICATIONS

NEHU Publications continued with its printing and publishing programme. Printing of a History of Modern World and Model Question were taken up by the department. Printing of various forms, answer scripts etc. of the Examination Department and also Stationery items were taken up.

Printing of materials in connection with the Xth Convocation of the University were also undertaken. The department also took up production of Improved Pace Content learning material in Naga (Ao) for the SRC, NEHU for meeting the requirement of the National Literacy Mission. The department also published the 21st Annual Report of the University.

An issue of the NEHU Journal of Social Scientists and Humanities and three volumes of Problem of Hill Tribes, copy right of which has been acquired by the University is being reprinted.

The Publication Cell also participated in the book exhibition-cum-sale held during the XVI Annual Conference of North-east India History Association at Assam University, Silchar on 4-6 December, 1995. The department also took part in the book exhibition-cum-sale on the occasion of 56th Session of Indian History Congress at Rabindra Bharati University, Calcutta on 28th December - 30th December, 1995. The Department also participated in the XII New Delhi Book Fair organised by the AIU. Sales during the year are given below :

Text Books	Rs.2,60,831/-
General Books	Rs. 15,159/-

As approved by the Governing Board of NEHU Publications a Desk Top Publishing System was procured. All DTP composing is now being done in the department.

REGIONAL SOPHISTICATED INSTRUMENTATION CENTRE

The centre is a centralised service facility established to cater to the analytical requirements of the scientific community in the North-Eastern Region. The range of analytical facilities included IR, FT-IR, NMR, FT-NMR, AAS, ICP-AES, SEM and TEM. It also offered limited repair and maintenance services and conducted training workshops. It was open to interested persons undergoing specific training on any instrumentation technique(s).

Head: Professor Darlando Khathing

Scientific Officers:

Name	Designation
Taposh Chakraborty, M.Sc. Physics (NEHU), Ph.D. (NEHU)	Sr. Scientific Officer
T.S.B. Baul, M.Sc. Chemistry (North Bengal) Ph.D. (North Bengal)	Scientific Officer
Sudip Dey, M.Sc. Zoology (NEHU), Ph.D. (NEHU)	Scientific Officer
Sapu Changkija, M.Sc. Botany (NEHU), Ph.D. (NEHU)	Scientific Officer
Thomas Job, M.Sc. Chemistry (NEHU), M.Tech. Instr., (IISC, Bangalore)	Scientific Officer
Begonia Dkhar, M.Sc. Zoology (NEHU)	Scientific Officer

Workshops/Seminars:

The Centre organised three 5-day regional workshops during the year. They were on - (a) Electron Microscopy (August 28 - September 1, 1995): External resource persons: Dr. P.D. Gupta of CCMB, Hyderabad, Prof. A.N. Rai, Biochemistry Department, NEHU and company representatives from M/s. Lab India and M/s. Chemito. (b) FT-IR Spectroscopy (September 12-16, 1995): External resource persons: Prof. A.L. Verma, Prof. Kamal Kumar, Dr. P.K. Bajpai of Physics Department, NEHU, Dr. K.C. Baruah of Meghalaya FSL and company representatives from M/s. Lab India. (c) FT-NMR (October 17-21, 1995): External resource persons: Dr. A.C. Kunwar, IICT, Hyderabad, Dr. N. Chandrakumar, CLRI, Madras, Dr. S. Selvavinayakam, Bruker (India), Prof. H. Ila, Dr. R.K. Poddar of Chemistry Department, NEHU and another company representative from M/s. Bruker India.

The centre also organised a one day Seminar on Microwave digestion systems for sample preparation in AAS and AES technology.

The centre continued to participate in the UGC sponsored refresher courses of Chemistry, Botany and Zoology by way of demonstration lectures.

Training

(a) The AAS/AES trace element analysis section received training on the application techniques of ICP-AES for two weeks in May 1995. This was given by the application experts of the supply company. (b) The AAS/AES section received further training on the maintenance and trouble shooting aspects of ICP for 10 days in March 1995 by the same supply company.

Utilization of Services/Achievement

The utilization of most of the analytical services, has gone up, some from two to three times with respect to the previous year. An expert panel of the Steering Committee rated the overall performance of the Centre as second among the RSICs in the country next to the RSIC at IIT Madras.

R&D Activities

The software programme developed by the IR/FT-IR section has been receiving inquiries and quotations have been sent to ISRO, Bangalore and to IOL, Dehradun. R&D programme on sample preparation techniques for SEM and TEM are continuing.

Publications:

1. Bajpai, P.K., Pal, B. and Basu Baul, T.S. "Structural Characterization of some Quinolin-8-OL- containing Azo Dyes in solid and solution state as probed by Resonance Raman Fourier Transform IR and Electronic Spectroscopic Techniques" Jour. Raman Spect. 26, 351-361 (1995).
2. Dey, S. "Possible ultrasonic receptor on the bat fly, *Mystacinobia zealandica*". Curr. Sci 68, 10, 992-994 (1995).
3. Dey, S., Choudhury, S. and Varman, A.R. "Structural and chemical specialization of the cuticle of *Euthenes* species in relation to its photophysiological and other physical properties". Cytobios, 81, 251-260 (1995).
4. Dey, S., Hooroo, R.N.K. and Wankhar, D. "Scanning electron microscopic studies of the external morphology of sensilla on the legs of a butterfly, *Graphium sarpedon* (Lepidoptera-Papilionidae)". Micron, 26, 5, 367-376 (1995).
5. Dey, S. and Biswas, N. "Scanning electron microscopic detection of a specialized cuticular structure on the abdominal surface of the maggot of *Blepharia zebina* (walk) (Diptera: Tachinidae), parasitizing the larvae of the muga silk moth, *Antheraea assamensis*". Curr. Sci, 70, 5, 347-348 (1996).

Conferences/Seminars

1. Khathing, D.T. Invited speaker and President Inaugural session of DAE state Seminar on "Safety aspects in Uranium Mining, June 8, 1995, Shillong.
2. Roy, B. "Stoerescan observations on sensilla and other cuticular structures of

Ctenocephalides canis (Curtis 1826)" presented at International Global Meet on Parasite Diseases, 18-22, March 1996, New Delhi.

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

The University Science Instrumentation Centre started functioning in the year 1977 asUSIC level I. An expert team from UGC visitedUSIC on 26th and 27th May, 1994 to assess the functioning ofUSIC and recommended upgradation theUSIC to level-II with the following additional items being approved to augment the staff, infrastructure etc. with additional grants.

- | | |
|---|---------------|
| 1. Lecturer/ T.O. (I). | - Three Post. |
| 2. posts specialized in Electronics & Instrumentation and the third in Electrical and Electronics). | |
| 2. Technician - C (Glass Blowing) | - One Post. |

Equipment

- | | |
|-------------------------|------------------|
| 1. Electronics workshop | - Rs. 2.00 Lakh. |
| 2. Glass Blowing shop. | - Rs. 1.50 Lakh. |

Recurring (Per annum)

- | | |
|--------------------------------|------------------|
| 1. Consumables & Contingencies | - Rs. 0.30 Lakh. |
| 2. Data- sheet reference | - Rs. 0.10 Lakh. |
| 3. Seminar/ training/ meeting | - Rs. 0.30 Lakh. |

In pursuance of the Report of the Expert Committee/ Visiting team of UGC and on the recommendation of the 6thUSIC Advisory Committee, the Vice-Chancellor has also segregated theUSIC Carpentry section along with the two staff members - 1 STA and Technician "A" fromUSIC to the Carpentry section with Head ofUSIC to take additional charge of this section in addition to the responsibilities ofUSIC.

The electronics Section ofUSIC had also acquired some more new equipment so as to meet the ever demanding repair and testing works of scientific instrument that come from the different science departments of the University.

Head : Prof. A.L.Verma.

Activities undertaken by the different sections ofUSIC.

1. Electronics Section:

A large number of electrical and electronic instruments were repaired. The Instruments were received from different department of our University.

2. Glass Blowing:

Repair work and some fabrication of glass apparatus were carried out in this section.

3. Mechanical Section:

A good amount of work was done in the mechanical section. This also included welding work.

4 Carpentry Section:

A good amount of fabrication of furnitures as well as repair work was done for the various administrative & academic departments of the University.

DEVELOPMENT ACTIVITIES

PLANNING DEPARTMENT

Construction of the University Campus, both at Shillong and at Aizawl, undertaken by the Campus Development Department and the academic and infrastructural development of the affiliated colleges through the College Development Council have been two major development activities. The planning Department has been concerned with the University's perspective plans, with the implementation of the various schemes approved by the UGC and with the preparation of proposals for development grants for equipments, the construction of buildings, strengthening of libraries, academic departments and centres and university administration. Preparation of the University's IX Plan proposals, undertaken during 1994-95, was in the final stage of completion.

CAMPUS DEVELOPMENT : SHILLONG

Work on projects in the Shillong Campus, reported in 1994-95 are in progress. Construction of the Buildings for the departments of Political Science and Economics are also in progress and are expected to be completed during 1996-97. An amount of Rs. 80 lakhs, out of the VIII Plan allocation of Rs. 200 lakhs against an estimate of Rs. 434 lakhs for the Social Science Complex, had been received. Of this Rs. 75 lakhs has been utilised. Work has also begun on the planned construction of non-teaching staff quarters.

Plans for the construction of a 12 seater women's hostel and for raising boundary wall/fence, both at an estimated cost of Rs. 131.19 lakhs had been drawn up during the year. Proposals were also finalised for the construction, at an estimated cost of Rs. 1691 lakhs under the IX Plan of the following :

- (i) Administrative Block
- (ii) Central Library
- (iii) Lecture Halls for School of Social Science : Now under Construction.
- (iv) Building for Department of Education
- (v) Multipurpose Indoor Stadium
- (vi) Central School Building
- (vii) Sports Complex.

MIZORAM CAMPUS

The construction of the Academic Complex of the Aizawl Campus at TANHRIL consisting of :

(i) Administrative Complex, (ii) Post Graduate Class rooms without Laboratories and (iii) Post Graduate Class rooms without Laboratories had been allotted to PWD, Mizoram Government, as Deposit work. An amount of Rs.50.00 lakhs as against an approved amount of Rs.1,19,77,000 was released by the UGC. The work is in progress.

PACHHUNGA UNIVERSITY COLLEGE :

Proposals were made for the vertical extension of class rooms in the existing RCC Academic Complex. Plans for the following at an estimated cost of Rs. 1,55,00,000 were incorporated in the IX Plan proposals.

- 1) Staff Quarters.
- 2) 100 seated students Hostels.
- 3) Under- Graduate Student's Class Rooms-2 nos (With Laboratories).
- 4) Water supply and power Supply including approach Road to the above new buildings and the existing buildings.

COLLEGE DEVELOPMENT COUNCIL

The number of college affiliated in the University stood at 59, including 6 professional colleges (Law and Education). Affiliation was granted to the following during the year:

1. Provisional:

- i) Bungkawn College, Aizawl, Mizoram.
- ii) North-Eastern Christian College, Khawdengsei, Mizoram.
- iii) J. Buana College, Mizoram.
- iv) B.Ed. College, Tura, Garo Hills,
- v). Umshyrpi College, Laban, Shillong.
- vi) Mamit College, Mamit, Mizoram.

- vii) Durama College, Durama, Garo Hills.
- viii) Ramana College, Aizawl.

2. Renewal

- i) Shillong Commerce College, Shillong.
- ii) Nongtalang College, Nongtalang, Meghalaya.
- iii) Saitual College, Saitual, Mizoram.

3. Permanent affiliation

- i) Saiha College, Mizoram.
- ii) Union Christian College, Meghalaya.

In granting affiliation the University besides enforcing the relevant Ordinance looked into the special needs and interest of the backward areas.

Permission was granted to the following Colleges for the introduction of new courses/ subjects.

- | | |
|---|--|
| 1. Tura Govt. College, Tura :- | Introduction of Major in Physics, Botany, English. |
| 2. Ri-Bhoi College, Nongpoh :- | Introduction of Major in Political Science, Khasi and Education. |
| 3. Kazi and Zaman College, :-
Garo Hills, Meghalaya. | Introduction of Logic & Assamese. |
| 4. Synod College, Shillong. :- | Introduction of B.Sc. major in Botany, Zoology, Chemistry, Physics, Geography, and Mathematics. |
| 5. Don Bosco College, Tura:- | Introduction of Major in Physics Meghalaya Chemistry, Mathematics, Botany and Zoology. |
| 6. Sankardev College, Shillong:- | Introduction of Major in Physics, Chemistry, Botany, Zoology and Mathematics. |
| 7. Lawngthai College, Lawngtai:-
Mizoram | Introduction of Major in History and Political Science for three years. |
| 8. Saiha College, Saiha, Mizoram:- | Introduction of Major in English, Mizo, Psychology, Education and Economics for a period of one year. |
| 9. Seng Khasi College, Shillong:- | Introduction of Major in English Pol.Sc., Khasi, History, Philosophy, Education. |
| 10. Govt. Aizawl College, Aizawl:- | Introduction of Major in Physics, Chemistry, Mathematics, Botany, Zoology and B.Com. Major. |
| 11. Mamit College, Mizoram :- | Introduction of B.A. (Genl) in English, Alt. English, Economics, Pol. Science, History, Mizo, Education and Major in Economics, Pol. Sc., Education and History. |
| 12. Durama College, Tura :- | Introduction of B.A. (Genl) in English, Alt. Engl. Garo, Bengali, History, Economics, Education, Political Science, Philosophy and Major in English, History, Pol.sc., and Garo. |

13. Bungkawn College, Aizawl :-

Introduction of B.A.(Genl) in English, Mizo, Economics, Pol. Science. History, Education, Mizo, Major in Education, History, Pol.Sc. and Economics.

14. Aizawl North College, :-
Aizawl, Mizoram

Introduction of Major in Economics, Education, Pol.Sc., English, History, and Geography

The Number of colleges enlisted under section 2(f) 12B of the UGC Act entitling them to grants from the Commission is still very few. The College Development Council is therefore taking necessary steps to increase the number of colleges eligible for enlistment.

EXAMINATION DEPARTMENT

All the examinations were held according to the schedule notified by the University. In spite of the difficult infrastructure and communication system of the region, all the results were published in time. Success in spite of so many odds, speak of the nature of co-operation and the support received from the state governments of the two states in the jurisdiction of the University and selfless effort of the employees of the department and teachers.

The Tenth Convocation of the University was held on 4 November 1995. The Convocation was presided over by the Vice-Chancellor Professor B. Pakem. Professor Yash Pal was the Chief Guest at the function. Besides the medals, 38 merit prizes were also awarded. Five students were awarded special awards.

The enrolment of students at different levels during the year 1995-96 is given in Part-II and the analysis of examination results 1995 is given under Part-III of the report:

The following examinations were conducted by the University during the year under report

Pre-University (Arts/Science/Commerce)

B.A. (Pass/Hons.)

B.Sc. (Pass/Hons.)

B.Sc. Home Sc. (Pass/Hons.)

B.Com. (Pass/Hons.)

B.A. (Major/General)

B.Sc. (Major/General)

B.Com. (Major/General)

PGDCA

B.Ed

LL.B

B.Lib.Sc.

M.Lib.Sc.

M.A.

M.Sc.

PART - II

ENROLMENT FOR THE ACADEMIC YEAR 1995 - 1996 COURSE

Name of the Courses	Year	S. Tribe		S. Caste		General		Total	
		M	F	M	F	M	F	M	F
P.U.(Arts)	II	3127	2529	100	50	509	226	3736	2805
P.U.(Science)	II	558	308	35	10	221	71	814	389
P.U.(Commerce)	II	303	101	26	-	79	13	408	114
B.A. (General)	I	1311	1183	41	20	171	77	1523	1280
	II	959	826	35	15	166	88	1160	929
	III	769	598	29	12	104	56	902	666
B.Sc.(General)	I	57	20	9	2	29	6	95	28
	II	105	39	9	4	25	9	139	52
	III	57	28	5	1	30	7	92	36
B.Com (General)	I	67	16	1	-	35	8	103	24
	II	73	20	4	1	38	4	115	25
	III	64	14	2	-	34	7	100	21
B.Sc.(Home Sc.)	I	-	-	-	-	-	-	-	-
General	II	-	-	-	-	-	-	-	-
	III	-	-	-	-	-	1	-	1
B.A. (Major)	I	1573	1400	37	15	167	99	1777	1514
	II	1294	1139	25	10	206	94	1525	1243
	III	868	728	11	4	168	77	1047	809
B.Sc.(Major)	I	232	109	11	4	113	37	356	150
	II	160	98	9	5	99	34	268	137
	III	117	54	8	6	70	16	195	76
B.Sc. Home Sc. (Major)	I	-	34	-	2	-	3	-	39
	II	-	27	-	2	-	6	-	35
	III	-	17	-	1	-	2	-	20
B.Com. (Major)	I	164	49	2	-	32	6	198	55
	II	93	19	3	-	26	7	122	27
	III	122	34	2	1	30	9	154	44
B.Ed. LLB	I	190	171	3	2	119	174	312	347
Preliminary		322	141	4	2	111	28	437	171
Intermediate		217	108	2	1	117	30	336	139
Final		153	53	-	-	55	7	208	60

PGDCA	I	5	-	2	-	7	-	14	-
M.A.	I	189	188	3	2	39	44	231	234
	II	156	199	1	-	48	52	205	251
M.Sc	I	32	26	1	2	28	31	61	59
	II	37	18	-	1	14	18	51	37
B.Lib.Sc.		3	14	-	-	3	5	6	19
M.Lib.Sc.		4	7	-	-	3	2	7	9

PART III ANALYSIS OF EXAMINATION RESULT 1995

Name of the courses	Appeared										Passed					
	S.Tribe		S.Caste		General		Total		Male			Female			Total	
	M	F	M	F	M	F	M	F	I	II	III	I	II	III	M	F
P.U.Arts (R)	4723	3726	21	8	552	527	5296	4261	40	519	1136	53	514	910	1695	1477
									1	6	4	1	-	1	11	2
									33	96	190	51	79	198	319	328
(NC)	1823	1221	30	25	277	210	2130	1456	1	53	378	-	40	296	432	336
									-	-	5	-	-	2	5	2
									1	17	56	1	5	50	74	56
P.U. (R)	679	382	3	-	190	108	872	490	73	172	59	42	105	17	304	164
(Science)									1	2	-	-	-	-	3	-
									72	56	10	52	35	8	138	95
(NC)	221	106	1	-	23	27	245	133	1	28	41	1	24	20	70	45
									-	-	-	-	-	-	-	-
									-	7	6	-	2	6	13	8
P.U. (R)	287	96	5	-	70	13	362	109	3	28	91	5	17	29	122	51
(Commerce)									-	3	2	-	-	-	5	-
									8	21	15	1	1	2	44	4
(NC)	95	36	2	-	18	6	115	42	-	2	42	-	-	15	44	15
									-	-	-	-	-	-	-	-
									-	-	10	-	-	1	10	1
B.A.(Pass) (NC)	2200	1360	15	1	302	299	2517	1660	15	76	384	1	30	275	475	306
									-	-	7	-	-	1	7	1
									-	17	72	-	8	73	89	81

B.Sc.(Pass)	(NC)	294	164	2	-	51	27	347	191	-	59	39	-	29	37	98	66
										1	-	1	-	-	-	1	-
										1	16	11	-	4	8	28	12
B.Sc.Home (NC)	(NC)	-	-	3	-	-	-	-	3	-	-	-	-	-	-	-	-
										-	-	-	-	-	3	-	-
B.Com. (NC)	(NC)	228	84	2	-	36	14	266	62	-	2	42	-	1	22	44	23
										-	-	1	-	-	-	1	-
										-	4	8	-	1	2	12	3
B.A.(Honours)	(Honours)	543	338	5	-	136	104	684	442	4	287	-	3	184	-	291	187
										-	-	-	-	-	-	-	-
										4	75	-	2	66	-	79	68
B.Sc (Honours)	(Honours)	151	56	4	-	76	62	131	118	16	95	-	12	36	-	111	48
										-	-	-	-	-	-	-	-
										24	38	-	31	23	-	62	54
B.Sc. Home Science (Honours)	(Honours)	-	5	-	10	-	-	-	15	-	-	-	1	4	-	-	5
										-	-	-	4	6	-	-	10
										-	-	-	-	-	-	-	-
B.Com (Honours)	(Honours)	54	12	-	-	31	13	85	25	-	15	-	-	4	-	15	4
										-	-	-	-	-	-	-	-
										4	13	-	-	4	-	17	4
LL.B		14	16	-	-	17	13	31	29	-	4	-	-	2	-	4	2
										-	-	-	-	-	-	-	-
										-	1	-	-	-	-	1	-
B.Ed.		154	113	-	-	110	129	264	242	9	121	18	16	58	27	148	101
										-	-	-	-	-	-	-	-
										18	56	32	22	66	9	106	97
PGDCA		3	-	-	-	6	4	9	4	2	-	-	-	-	-	-	2
										-	-	-	-	-	-	-	-
										5	-	-	1	1	-	5	2

M.A.	88	138	-	-	46	45	134	183	12	60	2	31	85	3	74	119
									10	25	2	22	19	1	37	42
M.Sc	25	17	-	-	12	17	37	34	11	4	-	7	5	-	15	12
									4	5	-	15	2	-	9	17
B.Lib.Sc	124	11	2	-	-	1	2	1	4	-	-	-	-	-	-	1
									-	-	-	-	-	-	-	-
									-	1	-	1	1	-	1	2
M.Lib.Sc	3	11	-	-	2	1	5	12	1	2	-	7	4	-	3	11
									2	-	-	-	-	-	2	1
B.Com (Hons)	24	15	-	-	31	13	82	32	12	-	-	-	-	-	-	-
(Hons) 2 years																
B.Sc (Hons)	2	10	-	-	-	-	-	12	34	28	-	31	38	-	65	24
									10	32	-	15	30	-	111	48
B.Sc (Hons)	141	46	-	-	59	65	121	118	4	38	-	5	66	-	58	68
B.A (Hons)	243	218	2	-	170	104	684	415	4	384	-	3	184	-	561	181
B.Com (Hons)	233	14	1	-	10	14	200	45	-	-	-	-	-	-	-	-
B.Sc (Hons)	504	104	5	-	41	34	104	104	1	10	11	-	-	-	38	15
B.Sc (Hons)	504	104	5	-	41	34	104	104	1	10	11	-	-	-	38	15

RESULT ANALYSIS OF EXAMINATION 1995

Name of the Courses	Certain Subject Appeared						Certain Subject Passed						Total			
	S.Tribe		S.Caste		General		S.Tribe		S.Caste		General					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
P.U. (Arts)	616	494	2	1	26	19	644	514	355	304	1	1	16	9	372	314
P.U.(Sc.)	77	22	-	-	1	3	78	25	32	11	-	-	-	3	32	14
P.U.(Com)	9	4	-	-	4	2	13	6	6	4	-	-	3	2	9	6
B.A.(Pass)	280	151	2	-	19	18	301	169	206	108	1	-	13	15	220	123
B.Sc (Pass)	26	5	-	-	6	-	32	5	18	3	-	-	4	-	22	3
B.Sc.(Home)	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	1
Pass																
B.Com.(Pass)	26	2	-	-	6	1	32	3	21	1	-	-	5	1	26	2
B.Ed.	6	11	-	-	13	14	19	25	4	11	-	-	4	11	8	22

AWARD OF M.Phil/Ph.D DURING 1995

	M.Phil						Ph.D						Total			
	S.Tribe		S.Caste		General		S.Tribe		S.Caste		General					
	M	F	M	F	M	F	M	F	M	F	M	F				
Arts	10	11	-	-	7	12	17	23	5	5	-	1	4	9	9	15
Science	-	1	-	-	-	3	-	4	2	2	-	-	12	5	14	7
Grand Total	10	12	-	-	7	15	17	27	7	7	-	1	16	14	23	22

UNIVERSITY FINANCE 1995-1996

1. Grant received from UGC	Rs. 15,26,95,000/-
2. Grant received from UGC for Tura Campus.	Rs. 18,00,000/-
3. Fees	
Academic	Rs. 8,93,000/-
Examination	Rs. 56,90,000/-
Others	Rs. 2,49,000/-
University Hostel	Rs. 84,000/-
4. Income from Buildings	Rs. 1,40,000/-
5. Misc. receipts	Rs. 5,80,000/-
6. Income from Land	Rs. 29,000/-

	Rs.16,21,60,000/-

(Rupees Sixteen Crores twenty one lakhs sixty thousand only)

The items of Expenditure during 1995-96 were as follows :-

PART-I (NON PLAN) MAINTENANCE ACCOUNTS

1. Salary for Administrative Staff	Rs. 3,71,08,422/-
2. Salary for Academic Staff & Officers	Rs. 3,26,56,446/-
3. Leave encashment	Rs. 4,82,295/-
4. Pension contribution	Rs. 7,17,864/-
5. Other Common Services & General charges	Rs. 2,19,28,000/-
6. Other Items:	
(a) University share on un-assigned grant	
(b) Convocation	
(c) V.C's discretianery Fund	
(d) Visiting Prof Honorarium/TA-DA	
(e) Staff anonities	
(f) Teachers sent to seminar & conference	
(g) Registration charges & Membership contribution.	Rs. 7,69,842/-

7. L.T.C.	Rs. 11,49,000/-	
Medical	Rs. 11,99,962/-	
T.A. to Staff	Rs. 4,56,000/-	Rs. 50,36,962/-
T.A./ D.A. to Bodies	Rs. 7,44,000/-	
NEHU FellowShip	Rs. 14,88,000/-	
Pension		Rs. 26,34,000/-
8. Other Charges:		
a) Exam. Deptt.		Rs. 1,35,70,369/-
b) Sports		
c) College Dev. Council		
d) Publication		Rs. 20,72,616/-
e) Dean School of Students Welfare		
f) Health Clinic		
9. Office equipments Furniture &		
(a) Other capital Items		Rs. 40,76,157/-
(b) Library,Books,Journals/Perodical etc.		RS. 63,83,820/-
10.Other charges for School :		
a) School of Social Science		Rs. 82,818/-
b) School of Physical Science		Rs. 22,54,303/-
c) School of Languages		Rs. 2,000/-
d) School of Life Science		Rs. 21,93,199/-
e) School of Envtl. Science		Rs. 2,71,870/-
f) School of Humanities & Education		Rs. 962/-
g) Centres		
1) Centre for Creative Arts.		
2) Centre for Lit. & Cul. Studies		
3) Centre for Adult & Continuing		
4) Centre for Eco-Development		
5) Centre for Applied statistics		Rs. 1,58,416/-
6) Centre for Computer Science		
7) Centre for Distatnce Education		
8) Centre for Computer Science		
9) Institute of S.O.S & B.P.		
h) Centre for Eco.& Management		Rs. 85,822/-

i) Academic & Administrative Supports:

1) University Library	
2) University Hostel for Men	
3) University Hostel for Women.	Rs. 1,89,651/-
4) Proctor Office	
5) USIC	

j) NEHU Central School Rs.22,68,521/-

k) TURA-Furniture /Vehicle /Salary Rs.18,68,521/-

TOTAL EXPENDITURE NON PLAN PART-I

i) Shillong Campus	Rs. 13,68,07,382/-
ii) Remittance to P.U.C.	Rs. 1,48,48,662/-
iii) Remittance to Mizoram Campus	Rs. 1,05,03,833/-

GRAND TOTAL Rs.16,21,59,877/-

11. Special Grant Receipt Rs.1.00 Crore Expenditure Rs.1.00 Crore.

PART -II (PLAN) 1995-96

	RECEIPT	EXPENDITURE
1. Equipment Grant	Rs. 40.00 Lakhs	Rs. 40.00 Lakhs.
2. Books	Rs. 10.00 Lakhs	Rs. 10.00 Lakhs
3. Construction		
V.C. Residence/ Electrification/ Social Sciences Complex etc. etc.	Rs. 65.00 Lakhs	Rs. 65.00 Lakhs.

LIST OF MEMBERS OF THE COURT FOR THE YEAR 1995-1996

1. Chancellor
Shri K R Narayanan
Vice-President of India
2. Vice-Chancellor
Professor B Pakem
3. Pro-Vice-Chancellors
 - i. Professor R Lalthantluanga
 - ii. Professor M S Sangma
4. Dean, Students Welfare
Dr. D R Syiemlieh
NEHU, Shillong.
5. Registrar, NEHU, Shillong.
6. Librarian
Dr. L P Pathak,
NEHU, Shillong
7. Chief Proctor, NEHU, Shillong
8. Finance Officer
Mr L Nampui
NEHU, Shillong.
9. Deans of Schools
 - (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.
10. All Professors, NEHU.
 - (1) Department of Geography,
 - a. Professor R K Rai
 - b. Professor A C Mohapatra
 - c. Professor R Gopalakrishnan
 - (2) Department of Psychology
Professor A N Jaiswal
 - (3) Department of Forestry
Professor L K Jha
 - (4) Department of Education, Shillong
 - a. Professor M A Sudhir
 - b. Professor (Mrs) K S Lyngdoh
 - c. Professor (Mrs) M S Padma
 - d. Professor P P Gopalakrishnan
 - e. Professor R Bhattacharjee
 - (5) Centre for Adult & Continuing
Education.
Professor M C Pandey
 - (6) Department of English, Shillong.
 - a. Professor E N Lall
 - b. Professor N Hasan
 - (7) Department of Khasi
Professor H W Sten
 - (8) Centre for Creative Arts, NEHU,
Shillong.
 - a. Professor (Mrs) H Giri
 - b. Professor H B Ngapkynta

- (9) Department of Library & Information Sciences
Professor J C Binwal
- (10) Department of Botany
a. Professor R R Mishra
b. Professor R S Tripathy
c. Professor P Tandon
d. Professor Y S Chouhan
- (11) Department of Zoology
a. Professor A R Varman
b. Professor (Mrs) V Tandon
c. Professor K Chatterjee
d. Professor B K Sharma
- (12) Department of Linguistic
Professor (Miss) J War
- (13) Department of Education, Aizawl
Professor K P Nath
- (14) Department of Biochemistry
Professor A N Rai
- (15) Department of Physics
a. Professor A L Verma
b. Professor P Shukla
c. Professor Y S T Rao
d. Professor C S Shastri
e. Professor Kamal Kumar
- (16) Department of Chemistry
a. Professor H Junjappa
b. Professor T S B Narasaraju
c. Professor S N Bhat
d. Professor M K Choudhury
e. Professor (Mrs) H Illa
d. Professor M P Mahajan
g. Professor M P Mahanti
- (17) Department of History
a. Professor J P Singh
b. Professor Imdad Hussain
c. Professor M S Sangma
- (18) Department of Philosophy
a. Professor N Malla
b. Professor M M Agarwala
- (19) Department of Political Science
a. Professor R L Walli
b. Professor A K Baruah
- (20) Department of Economics
a. Professor P Passah
b. Professor S K Mishra
c. Professor M Lalwani
d. Professor K Bez
- (21) Department of Sociology
a. Professor A C Sinha
b. Professor M N Karna
- (22) Department of Anthropology
a. Professor P K Mishra
b. Professor A K Ghosh
- (23) Department of Public Administration
Professor R N Prasad
- (24) Department of Economics, Aizawl
a. Professor K K Upadhyaya
b. Professor Tlanglawma
- (25) Department of Mathematics
a. Professor S S Khare
b. Professor M B Rege
c. Professor S K Srivastava
d. Professor H K Mukherjee
- (26) Centre for Science Education
Professor Man Mohan Singh
- (27) Institute of Self Organising System and Bio Physics
Professor R P Bajpai
- (28) Department of Commerce
Professor V K Kumar

11. Heads of Department who are not Professors

- a. Head, Department of Psychology, NEHU, Mizoram Campus, Aizawl
- b. Head, Department of Bio-Chemistry NEHU, Shillong.
- c. Head, Department of Public Administration
- d. Head, Department of Sociology, NEHU, Shillong
- e. Head, Department of Khasi, NEHU, Shillong.
- f. Head, Department of English, NEHU, Mizoram Campus, Aizawl
- g. Head, Department of Geology, NEHU, Shillong. Mizoram Campus, Aizawl
- h. Head, Department of Political Science NEHU, Shillong.
- i. Head, Department of Anthropology, NEHU, Shillong

12. Two Readers who are not Heads of Departments and Two Lecturers to be appointed by rotation in the manner prescribed by Ordinances.

Readers:

- a. Dr R P Sharma, Department of English, NEHU, Shillong.
- b. Dr. H N Pandey, Department of Botany, NEHU, Shillong.

Lecturers:

- a. Ms. N Ganguly
Centre for Literary and Cultural Studies, NEHU, Shillong.
- b. Dr. E D Thomas
Department of Economics
NEHU, Shillong.

13. Seven Principals of Colleges in the State of Meghalaya and three from Mizoram.

Meghalaya:

- (1) Principal, Don Bosco College, Tura.
- (2) Principal, Tirot Singh Memorial College, Mairang.
- (3) Principal, Women's College, Shillong.
- (4) Principal, Tikrikilla College, Tikrikilla, West Garo Hills,
- (5) Principal, Kazi and Zaman College, Bhaitbari, West Garo Hills
- (6) Principal, Nongtalang College, Jaintia Hills, Nongtalang.
- (7) Principal, Jaintia Eastern College, Khliehriat, Jaintia Hills.

Mizoram:

- (1) Principal, Aizawl Government College, Aizawl.
- (2) Principal, Kolasib College, Kolasib, Mizoram.
- (3) Principal, Saiha College, Saiha.

14. Four teachers from affiliated Colleges of the State of Meghalaya & Mizoram.

Meghalaya:

- (1) Shri L D Shira, Lecturer, Tura Govt. College, Tura.
- (2) Dr H L Roy, Lecturer, Kiang Nongbah Government College, Jowai.
- (3) Shri P Dutta, Head, Department of Mathematics, St. Edmund's College, Shillong.

Mizoram:

- (1) Shri J S Pandey, Lecturer, Lunglei Government Collège, Lunglei

15. Four Lok Sabha members to be nominated by the Speaker and two Rajya Sabha to be nominated by the Chairman.

Lok Sabha:

- (1) Smt. Bibhu Kumari Devi,
Ujjanta Palace, 13 Lodi Estate,
Agartala, Tripura New Delhi-110003
- (2) Shri Bijoy Krishna,
Handique, C-11, Baba Kharak
Kushal Konvar Path, Singh Marg,
Jorhat-785001 Shulkala Lane,
New Delhi-110001
- (3) Shri P G Marbaniang,
Ram Krishna Miss- 9, Pandit Ravi
ssion Road, Shankar,
Lum Sohra, Shulkala Lane,
Shillong-793003 New Delhi-110001
- (4) Shri Yaima Singh
Yumnam, 13-A, Feroz-shan Rd.
Dinman Village, New Delhi-110001
Bisnupur District,
Manipur.

Rajya Sabha:

- (1) Dr B B Dutta,
135, South Avenue,
New Delhi
- (2) Shri W Kulabidhu Singh
Wankhai Road, 114, North Avenue
Imphal, Manipur New Delhi-110001
16. Ten members representing learned professions and special interests to be nominated by the Visitor. - VACANT
17. Four Students to be nominated by the Vice-Chancellor.
- (1) Mr Renben C Lyngdoh
Department of Political Science,

NEHU, Shillong.

- (2) Mr Sanjeev Kakoty,
Department of History,
NEHU, Shillong.
- (3) Mr K Vanlalawia,
President, NEHUSU, Mizoram Campus,
Aizawl.
- (4) Mr Maximilian Lyngdoh,
President, NEHU Students Union,
Shillong.
18. Not more than five persons to be nominated by the Visitor. - VACANT
19. Two persons nominated by the Chancellor.
- (1) Professor Animesh Chakravorty,
Indian Association for the Cultivation
Sciences, Jadavpur, Calcutta-700032
- (2) Prof. E S Raja Gopal
Director,
National Physical Laboratory,
New Delhi 110012
20. Not more than two persons to be nominated by the Chief Rector.
- (1) Shri R T Rymbai, IAS (Retd).,
Makhani Chapel Road, Jaiaw Laitdom,
Shillong.
- (2) Dr I M Simon,
Mawlai Umjaiur, Shillong.
21. Two members of Non-Teaching Staff nominated by the Vice-Chancellor.
- (1) Mr J M S Khongwir
President, Non-Teaching Staff Association,
NEHU, Shillong.

- (2) Mr T Kharir,
General Secretary,
Non-Teaching Staff Association,
NEHU, Shillong.
- (7) Principal,
Tura Government College, Tura.
22. Two representative from the State of
Meghalaya and One from Mizoram nomi-
nated by the Government.
- (1) Shri C Wolflang, Director,
State Council of Educational Research,
Meghalaya, Shillong.
- (2) Dr S K Chattopadhyay,
Additional Director of Public Instruction,
Meghalaya, Shillong.
- (3) Dr H Malsawma, Joint Director,
Higher and Technical Education (A)
Directorate of Higher & Technical
Education, Mizoram, Aizawl.
23. Members of the Executive Council who
are not otherwise members of the Court.
- (1) Director of Public Instruction,
Government of Meghalaya, Shillong.
- (2) Director of Higher and Technical Educa-
tion, Government of Mizoram, Aizawl.
- (3) Shri Anil Wilson, Principal,
St. Stephen's College, New Delhi-110007
- (4) Professor M G K Memon, M P.,
77 Lodi Estate, New Delhi-110003
- (5) Dr Srikant Jickhar, M P.,
'Suk Sagar' 72 Bharat Nagar,
Nagpur-440001
- (6) Professor Nimaye Sadan Bose,
Viswa Bharati,
94, Ramkrishapur Lane,
Howrah-711102 (W B)

LIST OF MEMBERS OF THE EXECUTIVE COUNCIL FOR THE YEAR 1995 - 1996

1. CHAIRMAN
Prof. B. Pakem
Vice-Chancellor
NEHU, Shillong
2. Pro-Vice-Chancellors
 - (1) Prof. R. Lalthantluanga,
NEHU, Mizoram Campus
Aizawl
 - (2) Prof. M.S. Sangma
NEHU, Tura Campus, Tura
3. Four Deans of School nominated
by the Vice-Chancellor
 1. Prof. A.C. Sinha
Dean, School of Social Sciences
 2. Prof. J.C. Binwal
Dean, School of Economics
Management and Information
Sciences.
 3. Prof. R.S. Tripathy
Dean, School of Life Sciences
 4. Prof. P.K. Mishra
Dean, School of Human and
Environmental Sciences
4. Senior most Professors nominated
by the Vice-Chancellor

Prof. R.R. Mishra
Department of Botany
5. Senior most Reader nominated
by the Vice-Chancellor
Dr R.P. Sharma
Department of English
6. Two Principals of affiliated Colleges
one each from Meghalaya and
Mizoram nominated by the
Vice-Chancellor
 - (1) Principal
Tura Government College
Tura, Meghalaya
 - (2) Principal
Kolasib College
Kolasib, Mizoram
7. Director Incharge of Collegiate
Education in the State of Meghalaya
and Mizoram
 - (1) Director of Public Instruction,
Meghalaya, Shillong
 - (2) Director of Higher and Technical
Education, Government of
Mizoram, Aizawl
8. Two members of the University
Court nominated by the Visitor.
VACANT
9. Four persons nominated by
the Visitor
 - (1) Shri Anil Wilson,
Principal, St. Stephens College,
New Delhi-110007
 - (2) Prof. M.G.K. Menon, M.P.
77, Lodi Estate,
New Delhi-110003
 - (3) Dr Srikant Jickhar, M.P.
Sukhsagar, 72 Bharat Nagar,
Nagpur-440001

(4) Prof. Nimaye Sadan Bose,
94, Ramakrishnapur Lane,
Howrah-711102 (W.B)

10. Permanent Invitee:
Finance Officer, NEHU, Shillong.

11. Secretary (Ex-Officio)
Registrar, NEHU, Shillong.

LIST OF MEMBERS OF THE ACADEMIC COUNCIL

1. Chairman
Professor B. Pakem
Vice-Chancellor,
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2. Pro-Vice-Chancellors
 - i. Prof. R Lalthantluanga
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 - ii. Prof. Milton S. Sangma,
Tura Campus, Tura.
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 - i. Dean, School of Life
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 - ii. Dean School of Human-
ities and Education
 - iii. Dean School of Physical
Sciences
 - iv. Dean, School of Social
Sciences
 - v. Dean, School of
Economics, Management
and Information Sciences
 - vi. Dean, School of Human
and Environmental
Sciences
4. Dean, Student's Welfare
Dr. D.R. Syiemlieh,
NEHU, Shillong.
5. Heads of Departments and
Centres of Studies
 - i. Head, Department of
History
 - ii. Head, Department of
Social Work.
 - iii. Head, Department of
Public Administration
 - iv. Head, Department of
Political Science
 - v. Head, Department of
Sociology
 - vi. Head, Department of
Psychology
 - vii. Head, Centre for
Cultural and Literary
Studies
 - viii. Head, Department of
Economics, Shillong.
 - ix. Head, Department of
Commerce
 - x. Head, Department of
Library and Information
Science
 - xi. Head, Department of
Economics, Aizawl
 - xii. Head, Department of
Continuing Education
 - xiii. Head, Department of
Bio-Chemistry
 - xiv. Head, Department of
Botany
 - xv. Head, Department of
Zoology
 - xvi. Head, Centre for Eco-
Development
 - xvii. Head, Department of
Anthropology
 - xviii. Head, Department of
Geography
 - xix. Head, Department of
Geology
 - xx. Head, Department of
Chemistry

- xxi. Head, Department of Mathematics
- xxii. Head, Department of Physics
- xxiii. Head, Centre for Applied Statistics
- xxiv. Head, Centre for Science Education
- xxv. Head, Department of English, Shillong.
- xxvi. Head, Department of Khasi
- xxvii. Head, Department of Linguistics
- xxviii. Head, Department of Philosophy
- xxix. Head, Department of Education, Shillong.
- xxx. Head, Department of English, Aizawl
- xxxi. Head, Department of Education, Aizawl
- xxxii. Director, Centre for Distance Education
- xxxiii. Head, Centre for Creative Arts.
- xxxiv. Head, Department of Forestry
- xxxv. Head, Computer Centre
- xxxvi. Director, Institute of Self Organising System and Bio-Physics
- 6. Librarian
Dr. L P Pathak
- 7. Principal of Colleges
Principal, Pachhunga University College, Aizawl
- 8. All Professors, other than the Heads of Departments and Centres to be nominated by the Vice-Chancellor
 - a. Department of Political Science
(a) Professor R L Walli
 - (b) Professor A K Baruah
 - b. Department of Public Administration
Prof. R N Prasad
 - c. Department of Sociology
(a) Prof. A.C. Sinha
(b) Prof. M K Karna
 - d. Department of History
(a) Prof. J P Singh
(b) Prof. Imdad Hussain
(c) Prof. M S Sangma
 - e. Department of Psychology
Prof. A N Jaiswal
 - f. Department of Economics, Shillong.
(a) Prof. S.K. Mishra
(b) Prof. M Lalwani
(c) Prof. P M Passah
(d) Prof. K. Bez
 - g. Department of Economics, Aizawl
(a) Prof. K K Upadhyay
(b) Prof. Tlanglawma
 - h. Department of Commerce
Prof. V K Kumar
 - i. Department of Library and Information Science
Prof. J C Binwal
 - j. Centre for Adult and Continuing Education
Prof. M C Pandey
 - k. Department of Bio-Chemistry
Prof. A N Rai
 - l. Department of Botany
(a) Prof. R R Mishra
(b) Prof. R S Tripathy
(c) Prof. P. Tandon
(d) Prof. Y S Chauhan

- m. Department of Zoology
(a) Prof. A.R. Varman
(b) Prof. (Mrs) V. Tandon
(c) Prof. K Chatterjee
(d) Prof. B K Sharma
- n. Department of Anthropology
(a) Prof. P K Mishra
(b) Prof. A K Ghosh
- o. Department of Geography
(a) Prof. R K Rai
(b) Prof. A C Mohapatra
(c) Prof. R Gopalakrishnan
- p. Department of Chemistry
(a) Prof. H Junjappa
(b) Prof. T.S.B. Narasaraaju
(c) Prof. S.N. Bhat
(d) Prof. M K Choudhury
(e) Prof. (Mrs) H. Illa
(f) Prof. M P Mahajan
(g) Prof. M K Mahanti
- q. Department of Mathematics
(a) Prof. S.S. Khare
(b) Prof. M.B. Rege
(c) Prof. S.K. Srivastava
(d) Prof. M K Mukherjee
- r. Department of Physics
(a) Prof. A.L. Verma
(b) Prof. C.S. Shastry
(c) Prof. Y.S.T. Rao
(d) Prof. P Shukla
(e) Prof. R. Singh
(f) Prof. K Kumar
- s. Centre for Science Education
Prof. M M Singh
- t. Institute of Self Organising System
and Bio-Physics
Prof. R P Bajpai
- u. Department of English, Shillong
(a) Prof. E N Lall
(b) Prof. N Hassan
- v. Department of Khasi
Prof. H.W. Sten
- w. Department of Linguistics
Prof. (Miss) J War
- x. Department of Philosophy
(a) Prof. N Malla
(b) Prof. M M Agarwal
- y. Department of Education, Shillong.
(a) Prof. M A Sudhir
(b) Prof. (Mrs) K.S. Lyngdoh
(c) Prof. (Mrs) M.S. Padma
(d) Prof. P.P. Gokulanathan
(e) Prof. R Bhattacharjee
- z. Department of Education, Aizawl
Prof. K P Nath
- aa. Centre for Creative Arts
(a) Prof. (Mrs) H. Giri
(b) Prof. H B Ngapkynta
- ab. Department of Forestry
Prof. L K Jha
9. Principals of Affiliated Colleges

(a) Shri. E.M. Sohkhet
Principal, Syond College,
Shillong, Meghalaya
(b) Smt. B. Tymthai, Principal
Seng Khasi College, Shillong,
Meghalaya
(c) Shri B.B. Chakraborty
Principal, Mendipathar College,
Mendipathar, Meghalaya
(d) Shri T.B.C. Liandala,
Principal, Kolasib College, Kolasib,
Aizawl

10. Representatives of teachers of the University
 - (a) Dr. R.P. Sharma, Reader Department of English, NEHU, Shillong.
 - (b) Dr H.N. Pandey, Reader Department of Botany, NEHU, Shillong
 - (c) Dr. E.D. Thomas, Lecturer Department of Economics, NEHU, Shillong.
 - (d) Shri S.K. Ghosh, Lecturer, Department of Economics, NEHU, Shillong.
 - (e) Smti. N. Syiem, Lecturer, Department of English, NEHU, Shillong.
11. Visitor's Nominees
 - (a) Prof. Suresh C. Modgal, Vice-Chancellor, G.B. Pant University of Agriculture and Technology, Pant Nagar.
 - (b) Prof. Avadesh Kumar Gupta, Centre for Material Science and Technology, I.I.T., New Delhi.
 - (c) Dr. Abu Ahmed Shamsul Haque, Principal, Regional Engineering College, Silchar.
 - (d) Prof. B.H. Krishnamurthy, Former Vice-Chancellor Hyderabad University, Hyderabad.
12. Representatives of Teachers of affiliated colleges admitted to the privileges of the University.
 - (a) Shri D.L. Warjri, Lecturer, St. Edmund's College, Shillong, Meghalaya.
 - (b) Shri S.D. Nandi, Lecturer, Lady Kean College, Shillong, Meghalaya.
- (c) Shri S. Bhattacharjee, Lecturer, St. Anthony's College, Shillong.
- (d) Shri K Liantuala, Senior Lecturer Hrangbana College, Aizawl, Mizoram
- (e) Dr R Rualthansanga, Senior Lecturer, Government Kolasib College, Kolasib, Mizoram
13. Representatives of the Post Graduate Students of the University
 - (a) Miss Madhumita Das, Department of Geography, NEHU, Shillong.
 - (b) Shri Partha Sarathi Paul, Department of Physics, NEHU, Shillong.
 - (c) Shri A Arunachallam, Department of Botany, NEHU, Shillong.
14. Permanent Invitee(s)
 - (a) Director, College Development Council, NEHU, Shillong.
 - (b) Controller of Examinations, NEHU, Shillong.
15. Secretary Registrar, NEHU, Shillong.

LIST OF OFFICERS

Registrar	Shri E.J. Mawlong, (Acting) (w.e.f. 31.8.91 to 1.7.95) Smti M.A.Shadap, (w.e.f. 19.5.95 to 25.11.95) Dr. A. Patton (Acting) (w.e.f. 5.11.95 to 31.3.96)
Finance Officer	Shri E.J.Mawlong (w.e.f. 3.12.90 to 1.7.95) Shri L.Nampuii
Librarian	Dr. L.P. Pathak (Acting)
Deputy Librarian	Mrs. Icylda Majaw
Dean Student Welfare	Dr. D.R. Syiemlieh
Controller of Examinations.	Dr. A.Patton
Deputy Registrar (Planning & Legal Cell)	Shri W.M.R. Wahlang
Deputy Registrar (Acad. & Estt.II)	Mrs. S. Rynjah
Deputy Registrar (Administration)	Shri S. Ahmed
Deputy Registrar (Examination)	Shri J.W.Smith
Deputy Registrar (Finance)	Smti B. Bareh
Asstt.Registrar (Conference, Annual Report Cell & Hindi Cell)	Shri J.M.S. Khongwir
Asstt.Registrar (Transport, Estate and Maintenance)	Shri C.D. Rynjah
Asstt. Registrars (Examinations)	Shri K. Nengnong Shri E.P. Philemon

Asstt.Registrar (Finance)	Shri R.C.Chyne
Asstt.Registrar (Estt.I & C.R.C)	Smti. A. Dkhar
Asstt.Registrar (Administration)	Smti. L.H. Thangi
Asstt.Registrar (Planning)	Shri P.K.D.Purkayastha
Asstt.Registrar (P & S)	Smti. S. Sailo
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Asstt. Director of Sports	Shri P.Blah
Director, C.D.C.	Prof.(Mrs) H.Giri
Director, Computer Centre	Dr. S.N.Rai
Head, R.S.I.C.	Dr. D.T.Khathing
Head, U.S.I.C.	Dr. A.L.Verma
Prof. Incharge Sports	Prof.M.P.Mahajan
Director Publication	Prof. Imdad Hussain
Coordinator, N.S.S.	Dr. K.M.Warjri
Chief Proctor	Dr. P.M.Passah
Proctor (Campus)	Dr. K.Ismail
Proctor (City)	Dr. P.M.Passah
Vigilance Officer	Shri J.M.S. Khongwir
Senior Medical Officer	Dr.(Mrs) M.Synrem Dr. V.S.V.Prasad

Resident Medical Officer	Dr. (Miss) M. Marwein
Documentation Officer	Dr. L. P. Pathak
Technical Consultant	Shri B. Kharmalki
Audit Officer	Shri R.S. Roy Choudhury

Mizoram Campus

Deputy Registrar	Shri L.F.Sailo
Asstt.Registrar	Shri L.H.Sailo
Asstt. Director (Sports)	Dr. F. Lawnkima
Asstt. Librarian	K.M. Zakhuma & Smti. Lalriamsiami
Senior Medical Officer	Dr. D. K. Bahali

LIST OF AFFILIATED COLLEGES

Name of College	Principal	Year of Establishment	Level to which Affiliated
*1.St.Edmund's College, Shillong-793003.	Br. Miranda	1924	Degree (Arts & Science)
*2.St. Anthony College, Shillong - 3	Fr.Stephen Mavely	1934	Degree (Arts, Science & Commerce)
*3.Lady Keane Girl's College, Shillong-1	Miss A.M.Marbianiang	1935	Degree (Arts & Science)
*4.St.Mary's College, Shillong-3	Sr. M.Germain	1937	Degree (Arts & Science)
*5.Union Christian College, P.O.U.C.C. Meghalaya-793122	Sri B.R.Kharlukhi	1952	Degree (Arts & Science)
*6.Shillong College, Shillong-793003	Sri T.Moitra (Acting)	1956	Degree (Arts, Science & Commerce)
*7.Tura Govt.College, Tura-794001	Sri R.Bhattacharjee	1958	-do-
*8.Sankardev College, Shillong-793004	Sri R.N.Upadhyia	1962	Degree (Arts & Science)
*9.Synod College, Shillong-793002	Sri E.M.Sohkhlet	1965	-do-
*10.Kiang Nongbah Govt. College, Jowai-793150	Sri D.C.Bhattacharjee	1967	-do-
*11.Mendipathar College, Mendipathar-794112	Sri F.W.Momin	1971	Degree (Arts)

*12.Seng Khasi College, Shillong-793002	Ms. B.Tymthai	1973	-do-
13.Nongstoin College, Nongstoin-793119	Sri B.K. Laitflang	1986	-do-
14.Acheng Rangmanpa College, Mahendraganj 793119	Sri P.Senath Kumar	1986	P.U.(Arts & Science)
15.Raid Laban College, Shillong-793004	Sri S.Nongbri	1985	Degree (Commerce) P.U. (Arts & Science)
16.Ri Bhoi College, Nongpoh.	Sri R.I.Marsharing	1986	Degree (Arts)
17.Sngap Singh Memorial College,Mawkyrwat-793114	Sri S.B.Sohmat	1986	Degree (Arts)
18.Shillong Commerce College, Shillong - 3	Sri R.Kharpor	1987	Degree (Commerce)
19.Sohra College, Cherrapunjee-793180	Sri S.Wanswet	1986	Degree (Arts)
20.Don Bosco College, Tura-794001	Fr.Cyriac Vettiekathadam	1987	Degree (Arts & Science)
21.Tirot Sing M.College, Mairang-793210	Prof.H.Syiemlieh	1967	Degree (Arts)
22.Women's College, Shillong-793003	Dr. S.B.Nandi	1987	-do-
23.Tikrikilla College, Tikrikilla,W.Garo Hills	Sri P.Chakraborty	1988	-do-
24.Kazi & Zaman College, New Bhaitbari,W.Garo Hills	Sri Abdus Sadar	1992	-do-
25.Nongtalang College, Nongtalang,Jaintia Hills	Sri S.Bhattacharyya	1992	-do-
26.Jaintia Eastern College, Khliehriat.	Sri Phervision Nongtdu	1992	-do-

27.Upper Shillong College, Sanshiong High School, Kynton, Shillong-793005.	Sri Oris Lyngdoh	1992	-do-
28.Durama College, Tura-794001.	Sri I.K.Sangma	1993	Degree (Arts)
29.Capt.Williamson M.College,Baghmara, W.Garo Hills.	Sri Bonderd Sangma	1993	P.U.(Arts)
30.Budha Bhanu Saraswati College, Mawprem, Shillong—2.	Dr. N.N.Bora	1994	-do-
31.Morning Star College, Nongthymmai - 14	Dr. S. Myrthong	1994	-do-
32.Umshyrpi College, Laban,Shillong-4	Dr. Rina Dhar	1995	Degree (Arts)
Mizoram			
**33.Pachhunga Univ. College, Aizawl-796001	Sri P.Gohain	1968	Degree (Arts, Science & Commerce)
*34.Lunglei Govt.College, Lunglei-796701.	Sri R.Biaksanga	1964	-do-
*35.Serchhip College, Serchhip-796321	Sri H.D.Rosanga	1973	-do-
*36.Champhai Govt.College, Champhai-796321.	Sri F.Rongenga	1974	-do--
*37.Aizawl Govt.College, Aizawl-796001	Sri Lalruanga	1975	Degree (Arts)
*38.Kolasib College, Kolasib.	Sri T.B.C.Liangala	1978	-do-
*39.Saiha College, Saiha-796901	Sri C.Zohupa	1978	-do-
40.Hnahthial College, Hnahthial-796571	Sri Sangthanga	1979	-do-

*41.Zirtiri Women's College,Aizawl-1	Dr.V.Khiangte	1980	Degree (Arts & Home Science)
*42.Hrangbana College,	Sri R.Zatlaia	1980	-do-
43.Lawngtlai College, Lawngtlai-796891.	Sri T.Thangtuama	1981	P.U. (Arts)
44.J.Buana College, Lunglei.	Mr.R.Baiksing	1989	-do-
45.Aizawl West College, Aizawl-796001	Sri P.B.N.Ralte	1992	-do-
46.Saitual College, Saitual.	Sri Lalsamhuna	1992	-do-
47.Mamit College, Mamit	Sri Y.N.C.Singh	1992	-do-
48.Zawlnuam College, Zawlnuam.	Sri Lalnunmawie	1992	-do-
49.Khawzawl College, Khawzawl.	Sri R.Lalringthanga	1992	-do-
50.Aizawl North College, Aizawl-796001	Mr.Lal Rinawma	1990	-do-
51.Lalmingthanga Memorial College, Durtlang.	Mr. H.Thanglawra	1993	-do-
52.Bungkawn College, Bungkawn.	Dr.H.Vanlalhluna	1993	-do-
53.North-Eastern College, Khawdungsei	—	1994	-do-

POST GRADUATE COLLEGE

Meghalaya:

1. Post Graduate Trg. College, Shillong-793003.	Mrs. J.S.Shullai	1964	B.Ed.
2. Shillong Law College, Shillong-793003	Sri H.Ahmed	1964	LL.B.
3. Tura Law College, Tura-794001.	Sri L.Momin	1975	LL.B.
4. B.Ed.College, Tura	Mrs.Charlollow W.Momin	1993	B.Ed.

Mizoram:

1. Mizoram Institute of Education, Aizawl.	Sri Wawmkima Khawlhing	1975	B.Ed.
2. Aizawl Law College, Aizawl.	Sri R.C.Thanga	1994	LL.B.

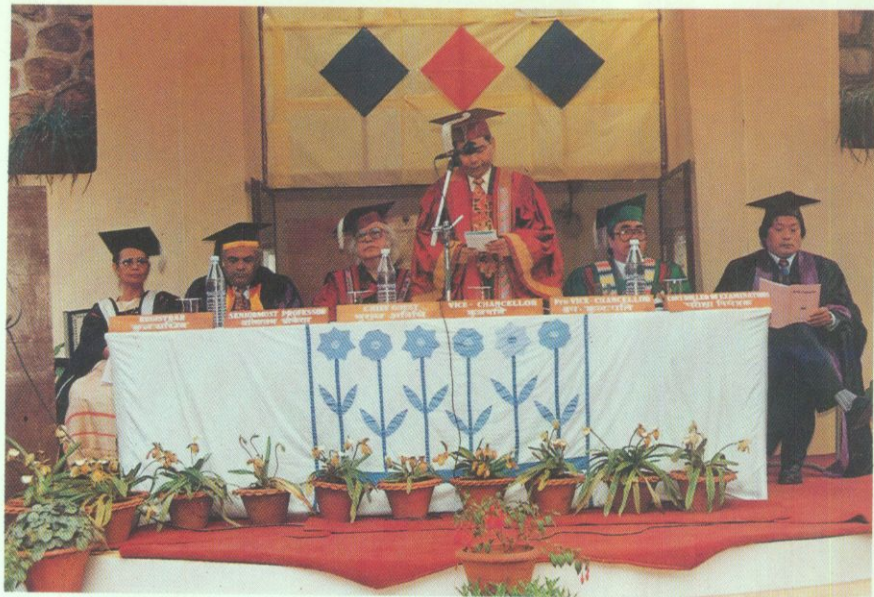
* *Permanent Affiliated College.*

** *Constituent College.*

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Tenth Convocation held in Shillong on 4th November, 1995