



**SIXTH ANNUAL REPORT
1979-80**

(July 1,1979 to June 30, 1980)

**NORTH-EASTERN HILL UNIVERSITY
SHILLONG.**

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NEHU ORGANISATIONAL STRUCTURE

Visitor

Mr. Neelam Sanjiva Reddy President of India.

Chief Rector

Mr. L. P. Singh Governor of N. E. States.

Vice-Chancellor

Dr. A. K. Dhan

Pro-Vice-Chancellor

Dr. S. C. Banwar Since July 10, 1979.

Deans

School of Languages — Dr. A. G. George.

School of Social Sciences — Dr. G. S. Aurora.

School of Life Sciences — Dr. P. S. Ramakrishnan.

School of Education — Dr. C. L. Anand.

School of Physical Sciences — Dr. K. K. Gupta.

School of Environmental Sciences — Vacant.

Heads of the Departments

Botany — Dr. P. S. Ramakrishnan.

Chemistry — Dr. H. Junjappa.

Economics — Dr. T. Mathew.

English — Dr. A. G. George.

Education — Dr. C. L. Anand.

Geography — Dr. M. Hussain.

History — Dr. S. N. Rao.

Mathematics — Dr. R. Jothilingam.

Philosophy — Dr. M. Miri.

Physics — Dr. K. K. Gupta.

Political Science — Dr. C. N. Bhalerao.

Sociology & Anthropology — Dr. G. S. Aurora.

Zoology — Dr. R. G. Michael.

(ii)

Registrar

- Mr. O. K. C. Grovor — Upto September 17, 1979
Mr. R. Kharlukhi — Upto February 18, 1980.
Mrs. M. R. Mawlong — Since February 19, 1980.

Officers on Special Duty

- Mr. R. Kharlukhi — Campus Development & Finance.
Mr. P. Maososang — NEHU, Nagaland Campus.
Mr. Darchhawna — NEHU Mizoram Campus.

Librarian

Mr. J. C. Binwal

Planning Officer

Mr. Anthony Patton — Since February 11, 1980.

Director of Sports

Mr. G. M. War.

Medical Officers

Dr. J. Sailo
Dr. (Mrs) M. Synrem — Since August 6, 1979.

Assistant Registrars

Mr. O. D. Shira — Administration.
Mr. S. N. Maitra — Academic.

Mrs. S. Rynjah — Affiliation & Examinations.

Assistant Finance Officer.

Mr. B. Dam.

Principals (constituent colleges)

Dr. M. C. Pandey — Agricultural College,
Medziphema, Nagaland.
Mr. J. W. Smith — Pachhunga University
College, Mizoram.

(iii)

Centres

Mr. C. P. Tewari — Adult & Continuing
Education.

Dr. H. Bareh — Creative Arts.

Project Officer

Mr. Nowenly Rynjah — Upto April 5, 1980.

College Development Council

Mr. Sainganga — Director.

THE YEAR IN RETROSPECT

The academic year, 1979-80, having come to a successful close, the North-Eastern Hill University now enters the seventh year of its existence. One of the youngest Universities in the country and one of the few Central Universities, NEHU came into being in July, 1973. To begin with, the University had only one campus at Shillong, its headquarters. With its jurisdiction extending over Meghalaya, Mizoram and Nagaland, it is only appropriate that the University should be able to call itself a multi-campus one, as it does today. It now has three campuses—the campuses at Kohima and Aizawl, besides, the original campus at Shillong. It goes without saying that the new campuses at Kohima and Aizawl await urgent development.

It was during the year under review that Departments of English and Education were set up in Kohima (September 8, 1979) and Departments of English, Economics and Education inaugurated in Aizawl (October 19, 1979). Plans are now under way to build up the campuses at Aizawl and Kohima on a permanent basis.

Six years is not a long time in the life of an institution like NEHU, which has a great potential for growth and expansion. Nevertheless, within this short period, it has already become a hub of activities, a considerable centre of academic and intellectual life, drawing students not only from within the North-Eastern Region but even from outside.

The progress made by the University and the various problems faced by it have been under constant review. During the year in question the University bodies and functionaries met from time to time to assess the over-all

position. The Court held its 5th meeting on March 28, 1980 at Shillong. The Executive Council held its 20th and 21st. meetings on September 22, 1979 and April 26, 1980 at Shillong and Kohima respectively. The Academic Council met at Shillong on September 1, 1979 and March 15, 1980,

In pursuance of its plans, submitted earlier, to set up a Department of Bio-Chemistry in the School of Life Sciences at Shillong, and Department of Commerce in Nagaland campus, the University appointed Dr. S. Lalthantluanga Reader-in charge of the Bio-Chemistry Department and advertised the posts of a Reader and two lecturers for the Department of Commerce.

For the convenience of the out-station students, NEHU provides hostel accommodation on a limited scale. The University offers a number of scholarships from its own resources. Students are also awarded various scholarships by the States and Union Territories. NEHU also accepts CSIR and UGC Junior Research Fellowships which are offered directly to the candidates on application through the University.

NEHU provides Health Services to students, teachers and the administrative staff. There are two medical officers running the University clinic.

The year 1979-80 was indeed an eventful one. The University was privileged to have been chosen the venue for the meeting of the Executive Council of the Association of Commonwealth Universities (ACU) from January 31 to February 2, 1980. The Conference was attended by a number of Vice-Chancellors, including some from abroad, who visited the different Schools of the University.

On June 12, 1980 the President of India, who is the Visitor of the University, appointed Dr. Homi N. Sethna, Chairman of the Atomic Energy Commission, as the third Chancellor of the University.

On September 17, 1979, Mr. O.K.C. Grovor tendered his resignation 10 months after taking over as the first Registrar of this University. The Vice-Chancellor, in exercise of the powers conferred on him by Clause (3) of the first Statute, appointed Mr. R. Kharlukhi, I.A.S. to perform temporarily the duties of the Registrar in addition to his normal duties as OSD Finance Campus Development. On February 5, 1980 the Ministry of Education and Social Welfare appointed Mrs. M.R. Mawlong the second Registrar of NEHU. Mrs. Mawlong took over as Registrar on February 18, 1980.

On April 5, 1980 Mr. N. Rynjah, Project Officer left the University after four years of service. Mr. Rynjah had seen to the completion of all the buildings meant to provide ad-hoc accommodation to the various Departments. All the Departments are now housed in these temporary buildings. Under Mr. Ranjah's supervision the 1025 acres Umshing-Mawkynroh (the site for the permanent campus) has been marked with boundary pillars. The 2.2 k.m. approach road to the proposed permanent campus was also completed during his tenure.

On March 4, 1980 the Vice-Chancellor, Dr. A.K. Dhan, inaugurated the Laboratory of the Department of Chemistry in the School of Physical Sciences. The new laboratory is expected to provide research facilities for 35-40 students for M. Phil and Ph. D. studies.

The University, though so young and located in a rather secluded and difficult part of the country, is nevertheless very much in the national picture. Prof. P. S. Ramakrishnan and Prof. R. George Michael were elected Fellows of Indian National Science Academy and National Academy of Science respectively. Teachers of the University have participated in national and international Seminars and Symposia, and

contributed research papers to journals, both Indian and foreign.

The Centre for Adult and Continuing Education and the Centre for Creative Arts have been active in organising programmes and short-term-courses.

No Institution is entirely free from problems. However, the difficulties experienced by this University are of a special nature. Situated in an extremely 'sensitive' region of the country, the University had to grapple with numerous problems—social and psychological besides those relating to accommodation; equipments and man-power. But in the process to grip with such inhibiting factors, the University has become more mature in its approach. Whatever the handicaps and impediments, this University is determined to forge ahead in the discharge of its social, cultural and academic responsibilities.

The University takes this opportunity to acknowledge the great measure help and cooperation extended by students, teachers, the administrative staff and the Governments of this region. We express our gratitude to all those who have contributed in different ways towards the progress and expansion of this University.

SCHOOL OF LANGUAGES

Department of English.

The Department of English of NEHU was established in 1973. It is the first and the only Department of the School of Languages. The Department of English at Kohima, Nagaland was inaugurated in 1979. This is a teaching cum research Department. The Department has been trying over the years to contribute to the sociocultural development of the people of the North Eastern Region by catering to the educational needs of the people of the hill areas.

Achievements of the Department :

The Department feels proud to place on record the fact that one of the faculty members, Miss Janita War, was awarded a Commonwealth Scholarship to pursue doctoral research at the University of Edinburg, U.K.

Thirty-five students were in the M.A. final class and thirty-five were admitted in the M.A. previous class. Three students who were admitted to the M. Phil Programme have successfully completed semesters I and II and now they are doing their M. Phil dissertations.

Break up of students' intake :

Year	Male	Female	Total	Out of which	
				SC	ST
1979-80	16.	19.	35		25

Department of English at Aizawl :

The Mizoram Campus of this University came into being after a formal inauguration by Dr. A. K. Dhan, Vice-Chancellor on October 19, 1979. The Department aims at the intellectual progress and academic advancement of the students of the region in the field of Language and Literature.

All the students who joined the Course are Scheduled Tribes of Mizoram. As the Department is just one year old, only the first semester examination had been conducted. The Department looks forward to producing able students in the field of Language and Literature in the near future and hopes to organise seminars symposia, guest lectures and research programmes. The Department is related by the English Department of the Shillong Headquarter.

The Department at the moment is facing some difficulties—scarcity of teaching staff, shortage of Library books and accommodations. The University is trying to pull together all the resources to solve these problems.

Break up students' intake :

Year	Male	Female	Total	of which	
				SC	ST
1979-80					
Semester I & II	7	nil	7	nil	7

Department of English at Kohima :

The Post-Graduate Department of English in Nagaland Campus at Kohima was inaugurated by Dr. A K. Dhan, Vice-Chancellor on September 9, 1979. The students admitted were from the different Naga Tribes of Nagaland. In the beginning some teachers had to go from Shillong to deliver lectures to the students. In November 1979, the University appointed three permanent teachers for the department.

Break up of Students' intake :

Year	Male	Female	Total	of which	
				SC	ST
1979-82					
Semester-I.	1	7	8	nil	8

SCHOOL OF SOCIAL SCIENCES :

Department of Economics

The Department of Economics, as a constituent unit of the school of Social Sciences of the University started functioning from October 1974.

The Courses of study and research in the Department of Economics are designed to train up competent economists who will have the capacity and expertise to interact with the sister branches of learning and to relate the theories learnt to the institutional and historical conditions of Society and to analyse the current economic problems of the Region as well as of the nation. In particular, the Department has oriented its teaching and research in accordance with the primary objectives of the University as laid down in the Act, and has been striving for their promotion. In the M. A. programme there are compulsory courses on the Economy of the North Eastern Region. In addition, there are also optional courses on Economics of Agriculture and Economics of Industry (including small scale industries), all focussing on the development aspects of the Hills Areas of this Region in the light of the theory and emperical findings in these areas of study. Besides, from the current academic year, the first semester students will be given an inter-disciplinary courses of the School of Social Sciences. The course for the time being would be a non-credit course offered by all the Departments of the Schooi.

Break Up of Students' intake :

During the academic year 1979-80, 52 students were admitted in the first semester and 34 in the third semester

classes. The break up of the students' intake is given below :

year	Male	Female	Total	of which SC	— ST
M A. I Semester.	41	11	52	—	34
M. A. III Semester.	22	12	34	—	22
M. Phil/Pre Ph. D.	1	2	3	—	2
Ph. D.	2		2	—	1

Of those admitted in the 1st Semester, 18 are B. A Hons. and 36 (pass) students.

Department of Economics at Aizawl :

The University is offering the M. A. Programme in economics at the Aizawl Campus from the academic session 1979-80. The Department was formally inaugurated by the Vice-Chancellor, Dr. A. K. Dhan on October 19, 1979. The emphasis of the M. A. programme in the Campus is to provide advanced study on the subject. The programme is designed for students who either propose to proceed to professional work in development planning or in related areas in government business, national and other organisations or who may decide to pursue their interest in economics at a higher level of study and research or take up careers as teachers,

The Department began its teaching programme with the first batch of 9 students admitted in the first semester. The Department works closely with to the parent department at Shillong.

Break up of students' intake :

year	Male	Female	Total	of which SC	ST
M. A. I. Semester 1979-80.	9	—	9	—	9

Department of History

The Department of History was established in October, 1974. Since its inception the department has been endeavouring to concentrate on the evolution and development of the culture and institutions of mankind from the pre-historic to the contemporary period as its academic perspective. The Department has so far been able to introduce 34 courses including 7 courses on the history, institutions, culture and archaeology of North East India. The students are encouraged to offer courses relating to North East India, and during 1977-80 about 40 students offered courses on this Region. The emphasis on the study of people and regions is more on the social and cultural evolutions and the historical patterns of changes and progress rather than on the chronology of dynasties and details of wars. The courses concerning N.E. Region are Archaeology of N.E. India, Neolithic and Meghalithic cultures, Government and politics in N.E. India, History of Himalayan region which included Bhutan and Sikkim.

Achievements

Till 1978 the Department admitted about 159 Scheduled Tribes and Scheduled Castes students. The total number of successful students being about 60% percent. Of these about 10 students who belong to Scheduled Tribes passed in 1st Division and 73 in Second Division

Year	Male	Female	Total	of which	
				SC	ST
Semester I. 1979-80	30	7	37	—	33
M. Phil.	—	3	3	—	2
Ph D.	—	—	—	—	—

Publications

Dr. J.B. Bhattacharjee "The Messenger of Khasi Heritage" in u Hipson Roy (ed), Khasi Heritage, Shillong 1979.

Dr. J.B. Bhattacharjee "Agrarian change in Garo Hills ; Nineteenth Century Experiences" in B. Dutta Ray (ed) Agriculture In the Hills, Shillong 1979.

J.B. Bhattacharjee "Agrarian Movement in Garo Hills" Journal of the North East Indian Council for Social Sciences to be organised by the Planning Commission.

Dr. Milton S. Sangma "Origin and migration of the Garos" Journal of the NEICSR, Vol III, No. 2, Shillong 1979.

Department of Philosophy

In Philosophy the idea of relevance (to the hill areas of the North-Eastern Region) has to be understood somewhat differently from other subjects. The nature of the Subject is such that it does not normally undertake any direct empirical study of social, cultural and human phenomena. However, the general direction in the Department has been to give in both teaching and research, special attention to such areas of philosophical thought as would facilitate the achievement of an authentic self awareness among the students with regard to their own cultural tradition history and social life. In fact as the Department grows and has more and more students from the region engage in research in such areas of philosophical thought, it is likely that it will become a source of genuinely creative cultural regeneration in the area.

Break up of students' Intake :

The following table shows the intake of students in the Department during the year 1979-80.

Year	Male	Female	Total	of which	
				SC	ST
M. A. I Semester ('79-'80)	10	5	15	—	6
M. A. III Semester.	4	5	9	—	6
M Phil. ('79-'80)	3	5	8	—	2

Two of the research scholars submitted their Ph. D. theses in early 1980, they are awaiting the reports of the examiners. The two scholars are Anju Joshi (the subject of Ph. D. dissertation is "The Role of Religious Belief in North East India") and S. C. Deniel (the subject of his Ph. D. dissertation is "Some Central Problems in Hume's Philosophy").

Publication :

Mrinal Miri "What is a person ?" July 1930.

Sujata Miri "Religion and Society of North-East India (Ed) 1980.

Rita Gupta "The Buddhist Doctrine of Momentariness and its pre-suppositions" published in Indian Philosophy Journal, 198 .

N. Na rain "What is Religious Language ? Religious Language", N.S.S Raman and K. N. Mishra, eds (Varanasi, Banaras Hindu University 1979) 104-117.

"University without a universal" Indian Philosophical Quarterly, VI, 4 (July 1979.)

"Indian Youth : The Need for ideological Commitment" Manthana, III, I (June 1930), 55-62

"Ibn Rushd Ka Darsana" being Chapter XX of Pascatyā Darsana Ka. Itihāsa, Daya Krishna, Ed (Jaipur : Rajasthan Hindi Grantha Akademi, 1979).

N. Malla "Logic of decision and public policy" a symposium paper published in the abstract of Indian Philosophical Congress, December 1979.

Jagat Pal "Hare on Universalizability" Journal of the Jain Vishva-Bharati 1979, Vol. V No. 1-2.

"The Mystic Symbolism of the Sound 'OM'" Journal of the Jain Vishua-Bharati Vol. V June-July, '79.

"Ryle's concept of category-mistake" Darshana International Vol. XIX, July '79, No. 3.

"On the meaning of Karma" Journal of the Jain Vishva-Bharati, Vol V. No. 9-10, December-January, 1979-80.

"On the Nature of Imperatives" Samadarshan, 1279.

Publication by research scholars

Anju Joshi : "Commitment and Conversion" published in the Religion and Society of N. E. India 1980.

S. Panigrahi : "Gandhi on Humility" forthcoming in Indian Philosophical Quarterly, 1980.

Bishon Buam : "God according to Nietzsche" forthcoming in Indian Philosophical Quarterly' 1980.

Department of Political Science

The Department of Political Science started functioning on the year 1974 with 36 students. The Department aims at building up an academic community of students, teachers and research scholars devoted to a dispassionate, open and critical study of the political problems of India in particular and the world in general. The Department has incorporated modern trends and techniques in the teaching of Political Science. The Master Degree Programme of the Department is based on the semester system and provides due opportunity for the over-all intellectual development of the students. The weightage and stress on seminars, class discussions tutorials etc. has been of great help to the students community not only in their academic performance but also in the development of their personality. In this academic year the Department has on its rolls about 68 students in the M. A. (previous) and M. A. (final) year classes. Most of the students are from the N. E. Region of India.

Research Activities

The Department of Political Science has on its rolls 15 students who are invited in the research programme. Most of them are working on topics having a bearing on the politics of the North-Eastern Region of India. The M. Phil Programme in the Department is commencing from the academic year 1980.

Break up of Students' intake :

Year	Male	Female	Total	of which	
				SC	ST
Semester I '79-80	16	12	28	—	18
Semester III	17	12	29	—	22
M. Phil			10		
Ph. D			5		

Department of Sociology and Anthropology

The Department of Sociology started its teaching and research programmes in 1976. The objectives of the Department are to advance and disseminate knowledge about the social and cultural aspects of Man in general and North-Eastern Hills States in particular.

The Department is especially interested in developing research and instructional excellence in the following areas :

- (i) Regional Development and Planning : with special reference to economic transformation and emerging social inequality :
- (ii) Sociology of Inter-ethnic Relation in Rural societies with special reference to frontier societies and divided communities :
- (iii) Sociology of movement and Political Dynamics :
- (iv) Sociology of change and Modernization : and
- (v) Sociology of Science, Profession and Technological innovation.

Achievements :

The Department has a total strength of 45 students the details of which has been given the following table. An M. Phil programme which has been going on since 1876 is being actively pursued by 10 research scholars. Three of them have already submitted their theses and are waiting for their viva-voce examination. One faculty member has also registered for Ph. D. degree in the Department and is about to complete.

Bresk-up of students' intake :

Year	Total	S.T.	S.C.
Previous (1979-80)	23	18	1
Final	22	17	—
M. Phil	12	7	—
Ph. D.	1	—	—

Research Activities :

Two research projects have been sanctioned in the year 1979-80 as per details below :

Name of Project	Supervisor	Sponsoring agency
(i) Nation Building in Bhutan.	Dr. A. C. Sinha	ICSSR
(ii) Rural Electrification as a Level of Social change in N. E. India.	Dr. G. S. Aurora	Rural Electrification Corporation.

SCHOOL OF ENVIRONMENTAL SCIENCES

Department of Geography.

The Department of Geography in the School of Environmental Sciences was established in July 1976. Its basic aim is to endeavour to develop an understanding of the various environmental processes, both physical and cultural so that the training and knowledge which is imparted during the formal M.A. M.Sc., and research courses would be meaningful for the purpose of analysing various spatio-temporal problems of the country with specific emphasis on the North-Eastern Region and to develop a proper strategy for the socio-economic development of the hill areas of the North-East.

Achievements of the Department

Dr. R. Gopalakrishnan was admitted to the degree of Doctor of Philosophy in 1979 in the Jawaharlal Nehru University and Mr. S.S.A. Jafri submitted his Ph.D. thesis in the same University. The Ph.D. research work of Mr. A C. Mohapatra, and Mr. Ali Ahmad lecturers, Mr. N.P. Goel, Statistical Assistant and Mrs. P. Chittaranjan is nearing completion.

Research Activities

In the field study programme, the Department conducted a socio-economic survey in the Umran Basin (Khasi Hills) taking fifteen villages as samples. In the field work all the M.A./M.Sc, and research students participated under the supervision of faculty members. On the basis of the information gathered, a documentary report was prepared. A similar survey was made in the city of Shillong to ascertain the ethnic structure, population composition and social amenities in the selected localities of the city.

The students of M.A. IV semester led by Dr. R.K. Rai and Mr. S.S.A. Jafri, conducted a geomorphic and socio-economic survey of Kalimpong and Gangtok (Sikkim) in March, 1980 as a part of their curricular programme. The students studied the fluvioglacial features along Kalimpong - Gangtok road and collected useful data on the cultural landscape of Sikkim. The purpose of study was to assess the role of rigorous environment on the socio-cultural and economic life of the communities. Work is in progress on a project "Impact of Modern Technology on the cropping patterns in Khasi Hills".

Break up of Students' intake

Year	Male	Female	Total	of which	
				SC	ST
1979-80					
MA/M.Sc. I Semester.	17	5	22	—	7
M.A./M.Sc. III Semester.	15	6	21	—	7
M. Phil	11	3	14	—	1
Ph. D.	4	1	5	—	—

SCHOOL OF EDUCATION

Department of Education

The Department of Educational Research and Studies of the School of Education of the University started functioning in Shillong from 1976. The M.A. programme was opened in 1978 and another M.Ed programme at Aizawl in 1979. The M. Phil programme started in Shillong in 1979. In all these programmes including the doctoral programme special attention is given to relate what is taught to the actual needs and problems of the region. The M.Ed programme is aimed at developing advanced level competence in various fields of Educational work so that it will help the improvement of standards.

Achievements of the Department

Out of the total number of students who qualified for the degree of M.Ed, 45.46 percent belonged to scheduled tribes. Many of them have become faculty members in Teacher Training Institutions, degree colleges, specialised institutions like the SCERT and also in the Department itself. Some of them function as heads of institutions.

The dissertation is one of the requirements of M. Ed programme. So far 33 dissertations have been submitted and cleared for award. These dissertations are on problems in education pertaining to this region. The results of such research is being brought out in the form of a bulletin. The research projects on micro-teaching and teacher abilities sponsored by the Ministry of Education on followup study of national scholarships is also going on in the Department.

Break up of students' intake

Year	Male	Female	Total	of which	
				SC	ST
1979-80.					
M.Ed. Semester I	—	6	6	—	1
M.Ed. Semester II	—	2	2	—	1
M. Phil	3	—	3	—	1
Ph.D.	1	2	3	—	2

Publications

Dr. C.L. Anand.

1. Anand, C.L. and Dave, P.N. Correlates of Achievements : A Trend report, Chapter 12, Second Survey of Research in Education (Ed. M.B. Buch) Society for Educational Research & Development, Baroda, 1979, pp. 331 - 339.
2. Anand, C.L., Teaching in Higher Education, Calicut University Bulletin, Calicut, vol. 10, No. 4. Oct. 1979 pp. 12-14.

Dr. Mathew George.

1. George, Mathew, "Self Concept of Secondary School Teachers and their Classroom Behaviour" Indian Psychological Review - A Quarterly Research Journal, Indian Psychological Society. 1980. Vol. 19, No. 1. pp. 28-32.

Dr P. K. Ganguli.

1. Ganguli. P. K. Programmed Learning Potential in India. The Educational Review, Madras, 1979 (This issue was published in 1980.)

2. Ganguli, P. K, Concept of Social intelligence. Quest in Education, Bombay, 1980.

Department of Education : (Aizawl).

After the establishment of the Campus at Aizawl, Mizoram in October 1979, applications were immediately called for the M. Ed. Course. Classes were started in the month of February 1980. The course mainly caters to the need of the teachers and Administrative staff who are working in the Education Department of the Union Territory.

In the first instance, the Department admitted 19 students to the first Semester. Out of the 19 students, 17 belonged to the Scheduled Tribes of Mizoram.

Break up of Students' intake :

Year	Male	Female	Total	of which	
				SC	ST
M. Ed. 1979-80	14	5	19	—	17

Department of Education : (Kohima)

The Department of Education (M. A. Edn) at Nagaland Campus was inaugurated by Mr. L.P. Singh, Governor of Nagaland on September 7, 1978. The first academic session (1978-80) of M.A. (Edn.) has been completed. Results of the three semesters have been declared. The dissertation work which was started late on account of shortage of teaching staff, is expected to be completed by the end of the coming semester. Results of the 1979-81 session have been declared. All students of the academic session (1978-80) have cleared their three courses.

The M. Phil and Ph. D. Programmes are proposed to be started in the coming academic years.

Break up students' intake :

Year	Male	Female	Total	of which	
				SC	ST
M. A. I. 1979-80	5	10	15	—	13

Research Programmes :

In the Academic year 1979-80 two research projects on "Micro-teaching", "Integretion of Teaching Skills" were undertaken by the Department. Another project sponsored by the NCERT. Delhi was carried out at the PGT College, Jorhat and PGT College, Shillong.

SCHOOL OF LIFE SCIENCE :

Department of Zoology

From its very inception, the teaching and research programmes of the Department of Zoology were organised with a view to fulfil the aims and objectives envisaged in the Act of the University to develop the academic infrastructure of the hill states under the jurisdiction of the University. The Department of Zoology, thus seized with this problem, has been striving hard to identify the needs of the region and to work on these lines. Being a part of the Indian sub-division of the Oriental Region, these hill states are blessed with a wide variety of fauna both terrestrial and aquatic. With a fairly high rainfall, these areas are endowed with abundant hill streams of all dimensions inhabited by both macro and micro fauna.

The objectives of the Department are two-fold. Firstly, the Department trains Post-Graduate Students much needed in this region to take up teaching in schools and colleges, to work administrative and research personnels in scientific institutions of State and Central Governments. The Second objective is to take up research on various problems related to the animal life in these hill regions with a view to utilise such knowledge for future development.

During the year 1979-80, some of the researchers have completed their doctoral theses. Their particulars are given below :

Name of scholar	Title of thesis	month of submission	Guide
1. Miss D. Roy,	Studies on certain aspects of ecology and develop of Rema limnocharis Wiegmann.	Aug. 1979.	K. K. Khare

2. Mr. A. Majhi Studies of Biology and chromosome analysis of some teleostean fishes of North Eastern India. Jan. '80 K. Chattarj e
3. Mr. V. Reddy Ecosystem structure and function of Pine Forest of Meghalaya March '80 J.R.D. Alfred

Break up of students' intake :

Year	Male	Female	Total	of which	
				SC	ST
M. Sc. I ('79-'80)	11	7	18	—	11
M. Sc. III	11	5	16	—	7
M. Phil.	3	—	3	—	1
Ph. D.	29	6	35	—	6

Honours and Awards :

Prof. R. G. Michael was elected Fellow of the National Academy of Sciences (F.N.A.Sc.), Allahabad, India (October 1979).

Dr. K. Chattarj e received in Germany the Gregor Mendel Medal from the European Mendel Memorial Committee.

Conferences and Seminars

A paper was read on behalf Prof. R. George Michael and Dr. B.K. Sharma at the 2nd International Rotifer Symposium. (Gent, Belgium, Sept. 1979).

Dr. M.K. Khare presented paper at the 49th Annual Session of the National Academy of Sciences of India at Nagpur (October, 1979).

Dr. J.R.B. Alfred and Dr B.K. Sharma presented papers in the 67th Indian Science Congress at Jodhpur (January 1980).

Dr. B. K. Ratha presented papers at the 4th Cell Biology Conference in 1980 and also at the 48th Annual Meeting of the Society of Biological Chemists (India) at Calcutta (January 1980).

Publications

(a) Paper published

1. R.G. Michael and B.J. Hann, (1979) On the resurrection of the Cladodera species *Chydorus reticulatus* Dady (Clydoridae, Cladocera) and its relationship to *Clydorus venetricosus* Daday 1898. *Hydrobiologia* 65 : 225-232.
2. (1980) Synopsis of taxonomic studies on Indian ROTATORIA. (Presented at 2nd International Rotifer Symposium. Sept. 1979 Gent, Belgium. *Hydrobiologia*, 73 : 229-236.
3. Sabu A.K. and M.K. Khare 1980. Field key of tadpoles of *Rana Limnocharis*. *The Nat. Acad. Sci. Letters* 3 (5) : 161-164.
4. A. Raghu Varman (1979). Helanins in the pecten of pigeons and their possible roles. *Science & Culture* 45 : 289-290.
5. A. Raghu Varman (1980) Resilin in the cuticle of physogastric queen terminate, *Experientia* 36 (5): 564-565.

6. Reddy, M.V., and J.R.B. Alfred, (1980). Effect of some atnotic factors on *Kusca* population. *Geogios* 7(2): 49-52.
7. (1979). Utilization of Caster(*Ricinus Communis* Linn.) leaves by the last instar larvae of the silk both *Philosmia ricini*. Hutt. (Lipidoptora : Saturniidae). *Indian Biologist* XI, (1 and 2) : 36-40.
8. J.R.B. Alfred and R. George Michael, (1979) Biosystematics and Ecology of fine species of Indian Chironomicae. *Bull. Meghalaya Science*, Sec. 3 : 5-12.
9. Ramanuham, S.N. and Ratha, B.K. (1980). Studies on poscicidal plants of North-Eastern India: Hope for an indegenous plant poison for fish nursery mangement, *Curr. Sci.* 49 : 251-252.
10. (1980). Effect of the alcoholic extract of *Zanthoxylum armatum* fruits of certain haematologic parameters of *Heterophetes familia*, *Curr. Sci.* 49 : 487-489.
11. Nasar, S.A.K. (1979), Effect on certain organs chlor insecticides on primary production in a freshwater pond. *Prog. Tech.* 11(6): 247-751.
12. Nasar, S.A.K. and M. Dasgupta (1979) On the occurence of Ichthyophthiriosis in *Acrossocheilus hexagonolepis* (Mc Cleiland). *Matsya* 5: 73-74.
13. Nasar, S.A.K. and J.D. Nunshi (1979). Studies on the seasonal variations in the fungal population of a freshwater pond of Bhagalpur, India. *Limnological* 12 (1): 137-139.
14. Nasar, S.K.T., and Nasar, S.A.K. (1979) know your pesticides. *Intensive agriculture*, 17(9): 25-26.
15. Sharma, B.K. (1979). Further contributions to the lecanid fauna (Rotifera Lecanidae) of West Bengal. *Acta Hydrobiol.*, 21 (1) : 253-59.
16. (1979) Rotifer from West Bengal. IV. Further contributions to to Eurotatoria. *Hydrobiologia* 65 (1) 39-47.

17. Sharma, B.K. (Contributions to the rotifer fauna of Orrisa, India *Hydrobiologia*. 70 (3): 225-233.
18. (1980) Taxonomic notes on some freshwater *Castrotricha*. From West Bengal, India, *Hydrobiologia* 70(3): 265-267.
19. & Michael R.G. (1980). Synopsis of Taxonomic studies on Indian Rotatoria, *Hydrobiologia* 73: 229-236.

(b) **Papers accepted for Publications**

1. Das, Sumita, Sharma, B.K. and Michael, R.G. 1980. The biology of *Daphnia lumholtzi* Sars I. *In vitro* development of the parthenogenetic egg. *Hydrobiologia*.
2. —do— 1980. Laboratory studies on the longevity instar duration and growth of male *Daphnia lumholtzi* Sars (Cladocera : Daphidae) *Curr. Sci.*
3. —do— (1980.) Field key of tadpoles of *Analeps afgharus*. *Bomb. Nat. Hist. Soc.*
4. Chatterjee, K. Kollinger, G. Schmidt, C.R. Anders, A and Anders, F. 1980. Cytogenetics of *Xiphophorus*. *Cen Genetics and Cytogenetics*.
5. Anders, F., Chatterjee, K. Schwals, M., School, E and Anders, A. 1980. Gene Expression and interphase chromatic appearance in *Xiphophorus*. *Amer. Zool.*
6. A. Raghu Varman, G. Sundara Rajulu and J.B. Acariah (1980). Quinone-tanning in the teeth of *Petromyzon marionus* Linnaeus. *Experientia*.
7. Ramanujam S.N. & B.K. Ratha (1980). Studies on acetylcholinesterase activity in different tissues of air gill breathing fishes ; *Comp. Physio. Ecol.*
8. —do— (1980). comparative studies on the activities of two glucose metabolising enzymes, Glucose

- 6 phosphate dehydrogenase (G6 PDH) and two gill breathing species of fish *Prod. Indian Nat. Sci. Acad. (B)*.
9. Nasar, S.A.K., and M. Sharma (1980). Primary production in relation to the abiotic factors in temporary freshwater pond. *Acta Hydrochemize et Hydrobiol.*
 10. Nasar, S.A.K. (1980). Primary productivity studies on freshwater fish ponds of Bhagalpur. India. *Acta Hydrochem. Hydrobiol.*
 11. Mrinal Dasgupta and Nasar, S.A.K., (1980) Preliminary observations on the biology of the juvenile of *Barilins berdelri* Ham. from river Simsang, Meghalaya (India) *Arguivers do Muzlu Bocage.*
 12. Nasar, S.A.K., Aloka Sarkar and R.V. Bedri (1980). An abnormal record of high oxygen production in the Eol of river Ganga at Bhagalpur, India, *J. Ichthyology.*
 13. Nasar, S.A.K. and S. Kaur (1980) Some limnological observations on a shallow pond in Shillong (India) : Physico-Chemical factors and plankto periodicity. *Verb. Internat. Veroin. Limnol.* 21.
 14. Vasht. H.S. and Sharma, B.K. 1980. Diurnal variations in freshwater pond in Ambala city (Haryana) India. *Proc. Zool. Soc, Calcutta.* 31
 15. Sharma B.K. 1980. Contributions to the rotifer fauna of Punjab state, India. I, Family Brachionidae. *Hydrobiologia.*

Department of Botany

The Department of Botany, a constituent of the School of Life Sciences, came into existence in 1974. The setting up of a Post-Graduate Department of Botany in the North Eastern Hill Region under the North-Eastern Hill University has special significance as the entire area is extremely rich in forests and forest resources. Also this area has the unique distinction of being one of the richest geographical regions both from the floristic and faunistic points of view. On the other hand, the North Eastern Region has also the unique problem of rapid depletion of its forest resources, a part from the continuing danger to its environment due to slash and burn agriculture (Jhum) and the felling of trees for timber and fire wood.

In view of the above, forest Biology was identified as the major thrust of the Department. At present, research is being carried out on various aspects of forest ecosystem, weed biology and population ecology, microbial ecology and plant pathology, cytogenetics, experimental morphology and morphogenesis, floristic and ethnobotany, algal ecology and physiology and tree physiology,

Apart from the emphasis on general botanical studies special emphasis is laid on an integrated approach to the study of forest biology and freshwater biology at M. Sc level. The Department offers specialization in forest ecosystem / freshwater ecosystem and second level specialization in the biological areas mentioned above.

Research activities :

The Department has made considerable studies in various areas of research undertaken by the Faculty members.

The current research interests of the faculty members are given below :

Professors P. S. Ramakrishnan and his group ; are engaged with the studies on :

- (i) Productivity, diversity and dominance over successional stages.
- (ii) Energy flow and nutrient cycling in agro-ecosystems.
- (iii) Hydrological cycle.
- (iv) Ecological strategies.
- (v) Growth pattern and tree architecture.
- (vi) Ecological adaptations of tree species.
- (vii) Population studies.

Professor R. R. Mishra and his group are engaged with the studies on :

- (i) Soil microbiology of Jhum land
- (ii) Ecology of rhizosphere fungi
- (iii) Mycorrhizal association and nutrient uptake fungal symbiont in trees, weeds and crop plants.
- (iv) Phyllosphere microbiology.
- (v) Plant litter decomposition
- (vi) Fresh water microbiology
- (vii) Fungal flora of Balphakram forest reserve
- (viii) Seed microbiology

The group is currently engaged in studies on soil microbiology of jhum lands and association of bacteria and fungi with roots of higher plants. The ecological aspects of mycorrhizal association of economically important timber species, local and exotic varieties of crops, various weeds and certain species of orchids of this region are being worked out. The role of fungal and actinomycete symbionts in the nutrient uptake is being studied.

Dr. R. S. Tripathy and his group are engaged with the studies on :

- (i) Regulation and dynamics of population of weedy species
- (ii) Population interaction studies with particular reference to competition between grass and legume species.
- (iii) Allolopatly
- (iv) Reproductive strategies of weeds.
- (v) Weed seeds dynamics in soil

Dr. Avtar Singh and his students are engaged in cytogenetical studies of Weeds growing at different localities with particular reference to their chromosome number and behaviour. The weed populations from different altitudes have been examined to determine the effect of temperature on chromosome associations and chiasmata frequency. Weeds so far studies and *Eupatorium adenephorum*, *E. odoratum*, *E. riparium*, *Hydochaeris radicata*, *Mikania scandaus*, *Galinsoga pawiflora*, *Panicum bravefolium*, *P. astrosanagguineum*, *P. Paludosum*, *P. psilopodium*, *P. mazimum*. Role of B-chromosome with respect of adaptation of *Galinsoga* at different altitudes has been studied. Besides, tannis (*Xanthosoma*) a tuber crop of Meghalaya has been studied and compared with a variety from Kerela with respect to kanyotype, protein content and electrophoretic bands. Similar studies have been made on 13 strains of *Colocasia* from Meghalaya and two strains from the plains. Similar works is being extended to other tuber and cereal crops.

In the field of experimental morphology, effects of gamma rays and ethylene on alkaloid yielding *Solanum* species are being studied by Dr. Y. S. Chauhan and his group. The emphasis is on the study of radiation and plant growth hormone effects on growth, productive biology and differentiation in medicinal and other economically important plants

of the north-eastern region. The group is also engaged with the studies on hormonal regulation of xylogenesis and cytodifferentiation in the cultured juice vesicles of *Citruses* of the north-east with an aim to understand the phenomenon of granulation disorder.

The taxonomic studies pertaining to the monocot and weed flora of Meghalaya, ethnobotanical studies and medicinal plants of Meghalaya, ferns of N. E. region and Pteridophytic flora of Shillong are being pursued by Dr. R. R. Rao and his group.

Dr. P. Tandon is engaged in research activities in the following areas :

- (i) Genetic, biochemical and physiological and mechanism that underline evolution and adaptation of plants,
- (ii) Role of plant tissue organ culture in studies on normal and abnormal growth in plants.
- (iii) Genetic organisation and expression in plants.
- (iv) Role of growth regulators on plants growth, development and metabolism.

Plant pathological studies pertaining to (i) induced resistance to Fusarium wilt, (ii) plant pathological survey of agricultural and forested systems with particular reference to chemical and biological control (iii) aero-microbiological survey in relation to plant disease for recasting and allery diseases are being undertaken by Dr. B. K. Datta.

The researches on ecology of edaphic algae and heavy metal pollution were being carried out by Dr. L. C. Rai until he left this Department towards the end of October, With the joining of Dr. V. M. Reddy, the work on the physiology of cellular differentiation and biological nitrogen fixation by the blue-greed algae has been initiated.

Ph.D. thesis submitted/approved : The following students submitted their their Ph.D. theses to the North Eastern Hill University, Shillong.

Name of the student	Title	Supervisor
Mr. P.K. Das	Micorbial decomposition of pine liter : an ecological approach	Prof. R.R. Mishra
Mr. B. Neogi	Studies on weed flora and agricultural lands and fishery tanks of Meghalaya.	Dr. R.R. Rao

Awards, honours and participations in Symposia Seminars

Prof. P.S. Ramakrishnan was elected Fellow of the Indian National Science Academy, New Delhi.

He visited Australia during May-September, 1979 on a Visiting Professional assignment of the Australian Vice-Chancellor's Committee (AVCC) sponsored through La Trobe University. He also gave seminars to several institutions in Australia, and completed work on germination ecology of *Tehmeda australis* as a Visiting Scientist of C.S.I.R.O. (Australia).

He was Co-convenor of symposium on "Environmental degradation, Agro-forestry and conservation of Natural Resources" at the 67th Session of the Indian Sciences Congress, Calcutta, 1980. He alongwith his students presented two papers entitled, "Agro-ecosystem and forest fallows under slash and burn agriculture at lower elevations of north-east India an ecological assessment" and "Shifting cultivation and its impact on forested ecosystem at high

elevation of Meghalaya with special emphasis on nitrogen budget''.

Prof. R.R. Mishra was elected Fellow of the National Institute of Ecology.

Prof. R.R. Mishra was invited to attend the Third International Symposium on "Ecology of leaf surface micro-organisms" held at Aberdeen from September 1-5, 1980. Apart from presenting a paper entitled "Fungal succession on needles of coniferous trees" at the said symposium he also attended the Second International Symposium on Microbial Ecology and presented his paper at University of War Wick, Coventry, U.K. during September, 1980.

He has been nominated as a member of the International Union of Forest Research Organisation (IUFRO) and has been invited to attend the IUFRO working party meeting on conifer needle diseases in Sarajevo, Yugoslavia during September 1980, He presented a paper on "Conifer Needle diseases in North Eastern India" in the above mentioned gathering.

A paper jointly by Prof. Mishra and Mr. G.D. Sharma entitle "Impact of Shifting Cultivation on the structure and function of micro-organisms in forested ecosystem" was presented by Mr. Sharma for the focal theme symposium on Environment Degradation, Agro-forestry and conservation of Natural Resources', at the 67th Session of the Indian Science Congress, Calcutta, 1980.

Dr. Y.S. Chauhan attended a Symposium on "Recent trends in the study of plant structure" at Allahabad and presented a paper on "Ethrel and gamma rays induced variation in shoot apex organisation of *Solanum khasianum*" jointly prepared with Miss J.S. Kharbteng.

Dr. Tandon worked on the genetic organisation of chloroplast DNA in the Department of Molecular Biology and Biochemistry at University of California, Irvina, USA under a Govt. of India National Scholarship award.

Dr. B.K. Dutta attended the 67th Session of Indian Science Congress held at Calcutta. 1980 and presented two papers "Trace elements as plant chemotheropentant to control *Verticillium* wilt" and "Studies on the biology and control of *Fusarium monilifer* isolated from pine seedling (*Pinus kesiya* Royle)".

Publications :

- Ramakrishnan, P.S. 1980 : Ecological Impact of jhum (slash and burn agriculture) on foresaid ecosystems of North Eastern India, INSA Newsletter No. 60, 3-7.
- Ramakrishnan, P.S. and Teky, O.P. : Preliminary observations on the impact of Jhum (shifting agriculture) on the forested ecosystem. In "Resources, Development and Environment in the Himalayan Region", Department of Science and Technology, New Delhi (Published in 1980).
- Mishra, R.R. and Pandey. K.K. 1979 : Phyllosphere Microflore of *Barassica compestris* L. Environment India 2 (1) : 18-22.
- Mishra R.R. and Tiwari, R.P. 1979 : Studies on phyllosphere microflora. Effect. of antibiotics and fungicides on leaf surface fungi and bacteria. Acta Botania Indica 7. 57-63;
- Mishra, R. R. and Sharma, G. D. 1979 : Distribution of Edo-genaceae in a sub-tropical Humid forest of Meghalaya, In Special Vol. on Environment Nat. Acad. Sci. 61-66.
- Mishra, R. R. and Sharma, G. D. 1980 : Report on root nodule formation in *Eupatorium* app. to Cum. Sci. 49 44-47.

- Mishra, R. R. 1980 : Soil born diseases in relation to some ecological factors In Recent advances on Biology of micro-organisms. Part I. (Eds K. S. Bilgrami and K. K. Vyas), Bisan Singh Mahendra Pal Singh, Dehradun 41-51.
- Mishra, R. R. and Sharma, G. D. 1980 : Mycorrhizae in the ferns of North Eastern India. Proc. Indian, Sci. Acad B. 46 546-551.
- Mishra, R. R. Tiwar, B. K. and Heka, H. K. 1980 : Fungistasis activity of Pine (*Pinus kasiya* Royle) needle extracts. Acta. Botanica Indica Vol. 8 (2) 158-163.
- Mishra, R. R. and Sharma, G.D. 1980 : Report on nodule formation in *Grassinephalum crepidioides* Acta Bot. Indica 8 : 253-255.
- Tripathi, R. S. and Gupta, G. P. 1979 : Competition between *Bothriochloa pertusa* (L) A. Camus and *Dichanthium annulatum* (Forsk) stop by their time of emergence in mixture Trop. Ecol. 20, 147-154.
- Tripathi, R. S. and Gupta. 1980 : The growth *Bothriochloa pertusa* and *Dichanthium annulatum* in relation to crowding and herbage removal. Oikos 34, 216-227.
- Mukherjee, U., Tripathi, R. S. and Yadav, A. S. 1980 : Fate of buried seeds of *Alysicarpus monilifer* and *Indigofera enneaphylla* under award situation. Indian J. Ecol. 7 : 88-95.
- Pradhan, P. and Tripathi, R. S. 1980 : On the co-existence of *Trifolium rupens* and *Paspalum dilatatum* in the grasslands of Shillong Indian J. Ecol. 7 : 207-214.
- Dwivedi, R. P. and Tripathi, R. S. 1980 : The response of *Alysicarpus monilifer* and *Indigofera enneaphylla* to selective removal of association in a grassland vegetation. Proc. Indian Natn. Sci. Acad. B46, 330-336

- Trivedi, S and Tripathi, R. S. 1980 : Bamboo flowering and increase in rodent population in Mizoram ; A preliminary report. In "studies on Redents and their Control" (ed. A. K, Ghosh) p. 66-72 Meghalaya Science Society, Shillong.
- Singh, A. and Gopal, J. 1979 : Higher polyploids in *Trigonella foenum graecum* Cytogia 44 : 661-667.
- Gopal, J. and Singh, A. 1979 : Meiotic behaviour and seed fertllity in advanced generation antotetraploids of Femygreek Indian J. Genet. 39 : 323-329.
- Singh, A. and Kuruvilla, K. M. 1979 : Effect of dimethyl sulfoxide on multivalents in autotetraploids of *Trigonella corniculata*. Cell Chrom. Newsletter 2 : 13-14
- Singh, A. and Ahmed, R. 1979 : Effect of demethyl sulfoxide on chiasmata in *Trigonella corniculata*. J. Cytel. Genet. 14 : 99-101.
- Chauhan, Y. S. and Ravidran, S. 1979 : Gamma-ray effects on heterestyle in *Solanum khasianum* clarks. Curr. Sci. 48(15) : 698.
- Kharbteng, J. S. and Chauhan, Y. S. 1979 : Ethrel-induced inhibition of pistel in *Solanum khasianum*. L. Curr Sci. 48(18) : 819-821.
- Ganguly, D., Singh, K. K., Bhagat, S. D., Upadhyay, D. N. Chauhan, Y. S., Gupta, N. K. and Singh, H. S. 1979 : "RRL Jor-3 1979" an improved strain of Java citronella *Cymbopogon winterianus* Jowitt Indian, Perfumer 23 (2) : 107-111.
- Rao, R. R. 1979 : Changing pattern in Indian flora. Bull bot. Surv. India 19(1-4) 156.
- Rao, R. R. 1979 : *Parthenium hysterophorus* Linn. (asteraceae) in Gauhati—A new record for N. E, India. Jour Indin Bot. Soc. 58 (1) : 44-47.

- Rao, R. R. & Narayana, K. S. 1979 : Introduced weeds in the vegetation of Mysore district. **Jour Bombay nat. Hist Soc.** 74(2) : 688-697.
- Roa, R. R. & Kharkongor, P. 1979 : Floristic composition and phenological pattern of vegetation of pine forests in Meghalaya. **Jour. Bombay Nat. Hist. Soc.** 75(2) : 273-285.
- Rao, R. R. & Razi, B. A. 1979 : A contribution towards a grass-flora of Mysore district. **Indian For.** 105(8) : 598-608
- Rao, R. R. & Jain, S. K. 1979 : A synopsis of some recent name changes in plants of the Indian sub-continent. **Indian For.** 105(8) 565-570.
- Rao, R. R. & Razi, B. A. 1979: An artificial key to the deciduous trees of Mysore district. **My. forest** 14(4) : 253-260.
- Dutta, B. K. & Isaac I. 1979 : Effect of inorganic amendments (P&K) to soil on the rhizosphere microflora of antirrhinum plants infected with *Verticillium Dahliae* kles. **Plant and Soil** 52 : 561-569,
- Dutta, B. K. & Isaac. I. 1979 : Effects of organic amendments to soil on on the rhizosphere microflora of antirrhinum plants infected with *Verticillium dahliae* Kles. **Plant and Soil** 53 : 99-103
- Dutta. B. K. & Isaac, I. 1979 : Seasonal variation of fungistasis in some soils **Trans. Br mycol Soc.** 73(1) 157-159.
- Dutta, B. K. 1979 : Effects of growth regulators on carbohydrates metabolism of *Zizy jujuba* gall and normal stem tissues in culture. **Biochem Physiol Pflanzen** 174, 772-779.
- Kohli, R. K. and Sawhney, S : Promotory Effect of Ga^{13} on flowering of *Amaranthum*, a short day Plant, **Biol. Plant (praba)** 21 (3) : 206-213, 1979.

SCHOOL OF PHYSICAL SCIENCES

Department of Physics

The Department of Physics aims at Providing opportunities for Post-Graduate teaching and offers research facilities in areas of Physics relevant to the National and regional needs. It is intended to appropriately train the students so that they may be able to tackle various problems using their scientific skill. It is thus hoped to build the scientific man-power required particularly for the North-Eastern region of the country. This was the fourth year of existence of the department.

The Department started a Pre-Doctoral Programme of studies. About half a dozen students attended the four courses which were offered. The second batch of 1.Sc. students took their degree, one in First Division three in Second. In the third batch, seven students have cleared the course requirements for M.Sc degree.

In addition to the students of the departments some college teachers also attended the Pre-Ph.D. programme this year.

Analysis of Student intake.

	Male	Female	Total	ST	SC
M. Sc. (Prev)	5	1	6	0	0
M. Sc. (Final)	7	2	9	1	0
M. Phil	2	2	4	2	0
Ph. D	1	2	3	1	0

Participation by faculty in Symposia/Seminars Workshops etc:

- (1) Discussion Meeting on Non-linear Optics, I.I.Sc.,

Bangalore. Oct., 1979. Dr. A.L. Verma was invited by the Indian Academy of Sciences. Bangalore to Participate.

- (2) DAE Nuclear Physics and Solid State Physics Symposium, Bombay, Dec., 1979. Dr. P. Shukla presented a paper.
- (3) Meeting on Spin-Glass Alloys, Roorkee, Feb., 1980. Dr. P. Shukla was invited speaker and presented two papers.
- (4) National Workshop on Advanced High Energy Accelerator Facility, Bombay, Oct., 1979. Dr. Raghuvir Singh attended.
- (5) Discussion Meeting on Non-linear Optics, Bangalore, Oct, 1979. Dr. Y.S. Jain participated.

Publications :

1. P. Shukla, Theory of neutron scattering by excitons, J. Phys. C 12 5463 (1979) with R.L. Elliott.
2. —do— Spin-glass behaviour in Fe-Al alloys : a microscopic model, Phys. Rev. B21,159(1980) with M. Wortis.
3. R. Singh, Spin alignment in $^{12}\text{C} + ^{12}\text{C}$ inelastic scattering Z. Physik A 296. 187 (1980), with W. Trombik, E. Dunnweber, W. Trautmann, W. Dahma, K.A. Eberhard, W. Hering and D. Konnert.

Department of Chemistry

The Department was established in 1979, to undertake Post-Graduate teaching and research programmes. The M. Sc. teaching programme was framed with an integrated approach comprising major areas of the subject incorporating the current trends and developments. Emphasis is laid on the modern instrumental techniques with a sound theoretical background so that the students are trained to handle the challenging problems in their chosen areas of specification. The Research activities of the Department centre round the individual specializations of faculty members who have been so chosen as to cover major areas of interest in the subject.

Analysis of students' intake

	Male	Female	Total	of which	
				ST	SC
M. Sc (Pre) '79-'80	11	1	12	4	0
M. Sc (Final)	11	1	12	2+1*	0
Ph.D. (Full time)	12	3	15	3	0
**Ph.D. (teacher)	7	0	7	0	0
Post Doctoral	2	1	3	0	0

*From other backward communities.

**Ph.D. candidates : Teachers from affiliated colleges.

The Department was further expanded with the addition of its new building with eight research laboratories, glass blowing laboratory and a library. In addition to the availability of excellent working conditions in the laboratories, there exists a wide range of sophisticated equipments housed in a new building. The establishment of the Instru-

mentation Centre is another important addition to the University.

Awards and Distinction

Dr. (Mrs.) H. Ila, Reader in Chemistry accepted UGC Career award for a period of three years.

Research Projects:

(1) Prof. T.S.B. Narasaraju

"Preparation and characterisation of apatites for use as ionexchangers for the removal of toxic ions" (UGC)

(2) Dr. J. Subramanian

"Electrochemical and ESR studies on Prophyrlins" (CSIR)

(3) Dr. S.N. Bhat

"Charge transfer interaction in biomolecules" (UGC)

(4) Dr. M. K. Mahanti

"Kinetics of Oxidative Cyclizations of Heteracyclic Molecules containing Amine, Imine and Thiol Functions" (UGC).

Seminar and Conferences :

The following faculty members have been invited and presented papers as indicated in the table.

Name	Title of Paper.	Venue
1. Prof. H. Junjappa	Plenary Lecture on 'Keten dithioacetals as potential three carbon fragments'.	Convention of Chemists Kurukshetra (Sept. 1979).

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|------------------------|--|--|
| 2. Dr. (Mrs) H. Ila | "Novel and Convenient method for synthesis of 2-N-Alkylarylsmino pyrimidines using polarized ketone S, Nacetals. | Convention of Chemists Kurukshetra (Sept. 1979). |
| 3. Dr. S. N. Bhat | (i) Phase diagram studies of charge-transfer complexes.

(ii) Transference Number of charge transfer complexes. | do |
| 4. Dr. M. K. Choudhuri | (i) "Reactions of perchloro-cyclopentadiene with mental carbonyls"
(ii) Studies on Fluoromanganate (III). | do |
| 5. Dr. M. K. Mahanti | "Kinetics and mechanism of oxidation of diphenylmethane by ferricyanide ion in acid media". | |
| 6. Dr. J. Subramanian | (i) "Some aspects of the ESR of Metalloporphyrins."

(ii) 'Basic Principles of ESR'

(iii) "Electronic Structure of metalloporphyrins" | Winter School on Electron Feramagnetic Resonance" IIT, Bombay (Nov. '79).

Summer School on 'Bioinorganic Chemistry, Indian Insti- |

- (iv) "Structural aspects of heme enzymes" tute of Scienne, Bangalore
- (v) "Physico-chemical behaviour of open chain tetrapyrrole pigments". (June-July 1980).

Publications :

1. A novel and convenient synthesis of 2-amino-4-aryl allylamino pyrimidines using polarized keten S, S-Acetals, A. Kumar, V. Aggarwal, H. Ila and H. Junjappa, *Synthesis*, 748 (1980).
2. Newer Synthesis methods. One-Step synthesis of Methylacetates from Acetopoenones using Lead Tetraacetate, B. Myrboh, H. Ila and J. Junjappa, *Synthesis*, 1980.
3. A new general method for the Synthesis of 1-Substituted-4-aryl-s-Methylthio-2-aminopyrroles using ketoken S.S Diacetals, A. Apparao, H. Ila and H. Junajppa, *Synthesis*, 1980.
4. Potential antifertility agents-Synthesis of 3-(phydroxyphenyl)-4-(3-oxecyclopentyl) hexane and 3-(phydrozyphenyl)-4-(3-oxecyclehexyl) hexane and attempted Synthesis of 3-p-(hydroxyphenyl)-4-(.-methyl-5-oxocyclopentyl)-hexane, V. Debrai, H. Ila and Nitya Nand, *Indian J. Chem*, 18 B, 152 (1979).
5. Determination of solubility products of hydroxyapatities, clorapates and their solid solutions, T.S.B. Narasaraju, U.S. Rai and K.K. Rao, *Canadian J. Chem*, 57, 1919 (1979)
6. Some thermedynamic aspects of dissolution of solid solutions of hydroxyapatities of phosphorus and arsenic,

- T.S.B. Narasaraju and U.S. Rai, *Canadian J. Chem.* 57, 2662, (1979)
7. Preparation and characterization of hydroxyapatites of phosphorus and arsenic and their solid solutions T. S.B. Narasaraju and U.S. Rai. *Indian J. Chem.* 17 A, 293 (1979).
 8. Nature of Water in Hydroxyapatites of phosphorus and arsenic and their solid solutions, T.S.B. Narasaraju. K.K. Rao and U.S. Rai, *Indian J. Chem.* 18A, 257 (1979).
 9. Preparation and characterization of solid solutions of hydroxyapatite and chlorapatite, T.S.B. Narasaraju, U.S. Rai and K.K. Rao, *Indian J. Chem* 18A, 168 (1979)
 10. Synthetic oxygen carriers; R. Singh and J. Subramanian, *J.Sc. and Ind. Res.* 00, (1980.)
 11. Surface tension measurements in the study of molecular complexes R.A Singh, S.P. Mishra and S.N. Bhat, *Proc. Ind. Acad Sci*, 89, 139 (1980).
 12. Thermal Reactions of perchlorocyclopentadienes with iron carbonyl, M.K. Choudhuri, *Indian J Chem* 19 A 125 (1980).
 13. Synthesis and studies on alkali metal pentafluoromanganates (IV), M.K. Choudhuri, J.C. Das and H.S. Dasgupta, *J. Inorg. Nucl. Chem.* 1980.
 14. Mass spectrometry of metal compounds-I. Mass spectra of $Mn(CO)_5Cl$. Evidence that C-O cleavage competes with Mn-C and Mn-Cl cleavages, M.K. Choudhuri, H.S. Dasgupta, N. Roy and D.T. Khathing, *J. Organometallic Chem.* 1980.
 15. Fixation of double bonds in bicyclic (4.1.0) hepta-1,3,5, triene, using molecular orbital calculations, M.K. Mahanti,

- Indian J. Chem, 198, 149 (1980).
16. Application of Environmental Relaxation Model to the transport behaviour of glassforming melts, N. Islam and Ismail K. C. Polymer Sci. 17, 4021 (1979).
 17. Modified Frenkel equation and isothermal concentration dependence of Walden Product, N. Islam, Ismail K and Anwar Ali, Indian J. Chem. 19 A, 254 (1980).
 18. Viscometer-cum-deductivity cell, K. Ismail and N. Islam, Indian J. Chem. Chem Education 7, 17 (1980).
 19. Mass spectral studies of 2-mercapto pyrimidines, S.M. Sondhi, M.P. Mahajan and N. K. Ralhan, J. India Chem. Soc. 56, 390 (1979).
 20. Studies in heterocyclics : Part IX : S.M. Sondhi, M.P. Mahajan and N. K. Ralhan, Indian J. Chem, 178 632(1980)
 21. Mass Spectral studies on thiazolo triazapines, S. M. Sondhi, M.P. Mahajan and N. K. Ralhan, J. Indian Chem Soc., 57 (1980).
 22. Alkali metal induced transformations of cis 1,2-dibenzyl alkenes, B. Pandey, M. P. Mahajan and M. V. George, Angew. Chem Intl. Ed. (eng) (1980).
 23. Revelation of Pentacyclo (6.2.1.0^{2,7}0^{4,10}0^{5,9}) udnecone oxabird cage equilibrium by ¹³CNMR spectroscopy, G. Mehta, V. Singh, P. N, Pandey. B. Choudhuri and H. Duddeck Chemistry Letters, 59 (1980).

Department of Mathematics

The Department of mathematics a constituent unit of the School of Physical Sciences completed the sixth year of its existence in 1980. The Department aims at the intellectual, academic and cultural uplift of the people of the North-Eastern Region in imparting good grounding in mathematics, and in providing facilities to students in fields like Statistics, numerical analysis, operation research and other applications of mathematics which are suited to jobs in this Region and to jobs likely to come up in the near future and to develop a strong centre of advanced research in mathematics so as to enable students of this Region to play a significant role in the scientific development in India and abroad as well.

In the beginning, the Department was mainly oriented towards Pure Mathematics. Now efforts are being made to create a group of people interested in Statistics and other applications of Mathematics which may in turn be helpful in training students in the directions having better job potential. In view of the fact that teachers and statisticians will be in great demand in the North-Eastern Region, the Department has altered the syllabus of the M.Sc. programme from 1979 and made it more broadbased with the inclusion of various courses such as mechanics and statistics. The Department at present offers M. Sc., M. Phil and Ph. D. programmes.

Break up of students' intake :

Year	Male	Female	Total	of which SC	ST
M. A/M. Sc. I Semester ('79-'80)	15	5	20	1	2
M. A/M. Sc. III	2	2	4	—	—
M. Phil.	1	—	1	—	—
Ph. D.	—	1	1	—	—

Research Activities :

The following table gives the name of students who got their M. Phil from the Department in 1979-80.

Name	Title	Supervisor
1. Miss S. P. Choudhury	"Projective Module over a certain class of Rings and Serre's conjecture."	Dr. P. Jothilingam
2. Mr. P. Rajkhowa	"Cohomology of Groups and some applications."	do

Publications :

1. Mr. B. K. Dev Sarma "Flow in a horizontal circular cylinder bounded by porous medium", Acta Mechanical 1979, 34, pp. 251-255
2. Mr. S. Ramasubramaniam "An elementary proof of Girsanov's formula, Sankhya" The Indian Journal of Statistics, 1979, Vol. 41, Series A, Pts. 3 and 4, pp. 263-270.

Centre for Adults and Continuing Education

In setting up the Centre for Adult and Continuing Education in 1974, the North-Eastern Hill University committed itself to an extremely ambitious and wide-ranging development of the community oriented education. The growing realisation among the policy makers, administrators and intellectuals that apart from performing its traditional task of preparing youngmen and women to fill the various positions in society and to widen the frontier of knowledge through fundamental research, the University owes it to the community to assist and partake in its process of development and modernisation, also help the authorities of the new University in taking this bold decision to invest in new fields of endeavours.

The main thrust of the Centre's programmes is on extending and updating the skills of individuals and organisations in very part of the local, regional and national community through oriented courses, conferences, seminars and workshops. Much of its work is innovatory and exploratory in character and are aimed at both immediate and long term returns. The basic formulation behind all the activities of Centre is to develop linkages between education, work and productivity, development, of local and national needs and aspirations.

The main programmes organised by the Centre during 1979-1980 are given below :

Name of Programme	Dates	No. of participants
1. A concert of light Western Music.	June 16,'79	500
2. Tabla recital by Pandit Sharda Sahai.	June 26,'79	200

Name of Programme	Date	No. of participants
3. Symposium on "The mother and Sri Aurobindo's philosophy"	July 3, '79	100
4. Workshop on University teaching Methods.	July 10-12, '79	20
5. Career lecture in Home Science at St. Mary's College.	July, 24, '79.	250
6. Symposium on the role of Financial Institutions in the Welfare of children.	July 26, '79.	60
7. Symposium on Mahathma Gandhi and the August 1942 Movement.	Aug. 9, '79	100
8. Visit of Mr. Eddo Van der Hoog, the violinist from Holland.	July 28 to Aug. 24, '79	—
(a) Concert cum lecture at Rotary Club.	Aug. 3, '79	25
(b) Concert cum lecture at St. Mary's College.	Aug. 10, '79	300
(c) Concert cum lecture at Jowai Govt. College.	Aug. 11, '79	150
(d) Concert at NEHU.	Aug. 13, '79	100
(e) Violin recital at State Central Library.	Aug. 17, '79	300
(f) Concert in collaboration with the Institute of Art & Culture at the State Library.	Aug. 18, '79	150
(g) Meeting with local artists.	Aug. 21, '79	25
9. Course in Western Music.	Feb to Sept, '79	6
10. Course in Library Science.	Aug. 16 to Nov. 23, '79	27

- | | | |
|--|---------------------|----|
| 11. Seminar on the role of Communication in Community Development with special reference to the Child Welfare. | March 24 to 26, '80 | 7 |
| 12. Seminar on Health development and education, | May 19, '80 | 52 |
| 18. Course in Fruits preservation. | June 23 to 27, '80 | 20 |

Collaboration with other Departments.

The Centre for Adult and Continuing Education collaborated with and seeks to get the involvement of different department of the University and the government of Meghalaya and other agencies in Shillong for running its programmes. The Centre also collaborated with the Central Institute of English and Foreign Languages, North Eastern Regional Centre in organising the refreshers' cours in Modern Techniques of teaching English. In organising the courses in Fruits Preservation and Home Gardening, the Centre took the assistance of the State Department of Agriculture and the Botanical Survey of India. The centre invited local artists and professionals of local organisations to the seminars, lectures, talks and concerts.

Centre for Creative Arts

The Centre has been surveying the feasibility of introducing M.A. Creative Arts in planned phase, so that the scheme will materialise, as and when a proper syllabus on a Regional Subject, for which, the Centre looks forward to undertaking a project. The scheme will be started after the posts of one Reader and three Lecturers are filled up.

Pending the setting up of the P.G. Department, the Centre has sought to provide a syllabus to the B.Ed. Degree on the art of teaching and has made available a special publication entitled Improved instruction in Khasi which is now used in B.Ed. and P.G. Training College. The Centre will also consult and make use of the proceedings of workshops in History of Art. 1977, published for the U.G.C. for framing the P.G. Syllabus. The syllabus as such will be intended to be of good standard and of relevance to students of this region.

Achievements

In the year under review the Centre held 4 Workshops on Creative Arts at selected places for the benefit of College and Higher Secondary students with an emphasis on the functional role of Creative Arts in Education. Of these, the first workshop was held at Jowai in July 19-20, 1979, inaugurated by the Deputy Commissioner, Jaintia Hills District. Besides the college, the following Schools participated in the workshop: (i) Govt. Boys' High School. (ii) Marlan Hill High School. (iii) Govt. Girls' High School, and (iv) Mary Mazzerello High School. The next workshop was held at Pynursla from 20-22, August, the third and fourth at Mawkyrwat and Pariong on October 18-20. The

programmes included items such as lecturers and seminars, debates, extempore speeches and cultural shows.

The themes were as follows :

- (a) The role of Creative Arts in improved instruction.
- (b) Scientific method of study.
- (c) Cultural heritage.
- (d) Role of Creative Arts in Socio-Economic Reconstruction.

The following motions were adopted for debates :

- (a) Knowledge of Creative Arts makes School and College studies fruitful (English debate).
- (b) Science makes faster advancement than Creative Arts.
- (c) Creative Arts play a role in Nation building.

During these workshop the Centre also arranged various cultural programmes on folk songs, dance, dramatics, exhibitions on crafts, embroidery, paper arts, drawing and painting.

Details of the numbers of participants and number of Institutions involed in the workshops.

Sl.	Name of Place	No. of participants	No. Institutions
1.	Jowal	600	5
2.	Pynursla	350	4
3.	Mawkyrwat	300	3
4.	Pariong	200	5
		Total	1450

About 150 College students were also benefited by a special programme held at Jowal.

Research.

Apart from its two publications entitled (i) "Improved Instruction in Khasi", and (ii) "Art of Parenthod and Art Appreciation" which are in circulation, the Centre has also a research project on forms and contents of local sculpture as part of an Arts History. The Centre expects to submit the full report when the survey is completed. This would be in continuation with the report submitted last year.

In view of the vast magalithic remains, the study of Sculpture will be of great significance regarding this important cultural aspect. The study becomes inter-linked with megalithic culture of these areas.

Photo Arts on Sculpture would be of great help to enrich in the collection of our Museum. The Centre has already photographed twenty four Coloured pictures and twenty eight in black and white on sculpture/stone relics. Captions on each photograph have been given in order to make the study as objective as possible.

Collaboration with other Departments

The Centre collaborated, with the Directorate of Public Instruction and the SCERT in holding the various workshops on Creative Arts as mentioned above.

The Khasi Cultural Society has also collaborated with the Centre for collecting large number of indigeneous folktones and folksongs. The Centre has been trying to have tape library of Local and instrumentai music with the help of the Khasi Cultural Society which has already organised meetings and exhibitions of talented local artists. This will be very helpful in promoting research activities on Ethnic Music.

Conferences and Seminars

The Reader In charge was invited by the Assam Sahitya Sabha to inaugurate the 47th Session of the Sahitya Sabha held at Raha in Assam on March 21, 1980. In his inaugural speech the Reader-in-charge of the Centre also laid stress on the rich artistic and cultural background and other historical landmarks besides giving a survey of the language and literature of Assam.

He participated in the Seminar on the History of Meghalaya organised by the SCERT and presented the following papers. "Confiscation of the Jaintia Hills in 1835 A.D." "Chinese Sculpture in the Old Mahadem Kingdom," "Social change in Meghalaya" and "Khasi Political Institutions."

The Centre conducted a Lecture Course on Audio-Visual Aids and Arts on September 20, 1979 at Shillong. The topics were ; the Functional Role of the Teacher, Relevance of Teaching Aids, Communication in Knowledge, Radio Arts Programme. The speakers, among others, were the Director, All India Radio, Shillong, the Librarian, North-Eastern Hill University and two College Principals. The Course centred on the teaching aids, designing, photographs cardiology, transparency slides, folk arts and crafts.

The Reader Incharge attended a special function held at Nongstion on the occasion of the International Year of the Child and conducted special educational programmes for the local college and school students. He also displayed audio-visual shows on Khasi Cultural heritage on the 9.11.'79.

Publication

1. Art of Parenthood and Art Appreciation, (1979) by Dr. H. Bareh.

Museum

The Museum was initially started in an improvised way. Apart from the collections made last year, the Centre has striven to collect rare and indigenous pieces. The centre looks forward to the most scientific evaluation and collection, to fall in line with the aim and objective of the Museum, as spelt out in the previous report

The Reader had participated in the teaching of Khasis in the Post Graduate Training College as an expert.

In spite of transport and other difficulties the Centre has taken steps to collect indigenous motifs, antiques, and specimens, to ensure proper development of the Museum. The sculpture has been intimately linked up with Arts History. This will be of significant help to researchers.

The extension projects of the Centre have made an impact in elevating the educational standards in the rural areas.

The collaboration with the Khasi Cultural Society will be of great help in producing interesting motion pictures.

Workshops on Creative Arts are welcome everywhere as a step to improve the academic standards through the the role of Creative Arts.

Faculty Members

1. Dr. H. Bareh, Reader-in-Charge.
2. Mr. O.L. Marbaniang Programme Organiser working up till October, 1979.

College of Agriculture : (Medziphema)

The College of Agriculture, the first professional institute to be set up by the North Eastern Hill University is situated at Medziphema, Nagaland. The college has successfully completed two academic sessions and the first batch of graduates will come out in 1983.

The academic emphasis of the college is mainly on Agriculture, Crop production and Animal husbandary with a multi-disciplinary approach towards rural development suited to the hill areas of the North-Eastern Region which the college is primarily meant to serve.

Additional buildings were added to the college comprising a chemistry laboratory, students' hostel, faculty and staff quarters.

Break up of students' intake :

State	Male	Female	Total	of which	
				SC	ST
Arunachal Pradesh	6	—	6	—	6
Meghalaya	4	2	6	—	6
Mizoram	4	—	4	—	4
Nagaland	17	—	17	—	17
Tripura	1	—	1	—	1
Manipur	3	—	3	—	3
Others	3	—	3	—	3

Publications :

1. Reddy, V. M., "Mass migration and mortality of *Anythus* (*Pheretima Alexandri*) (*Baddard*) (*Meghascolecidae*, *Oligochaeta*)," *Curr. Sci.* 49(15) 606 : (1908).
2. Kundu, A. K and Dubey, Y. P., "Characteristics of Literature use by Indian Library Scientists" *Harald of Library Science* 19 (37) (1980).

Library System

The Library System of the University has made appreciable progress with a collection of 92,000 volumes. The system makes active contribution to the pursuit of higher studies and research through its net work of the Central Library, School libraries, departmental libraries, college and Campus libraries. In addition to the usual services, of providing books and journals to readers the system is also now rendering other useful services such as references, bibliography and documentation and reprographic services.

During the year the following changes and development were made :

1. Appointment of a Standing Library Committee. The Executive Council has approved the appointment of a Standing Library Committee comprising the following members.

- (a) The Pro Vice-Chancellor Chairman
- (b) The Dean of Schools
- (c) Two Heads of Department—one representing the Social Sciences and the other the School of Sciences. These are nominated by the Vice-Chancellor.
- (d) Three members co-opted by the Vice-Chancellor ;
 - (i) Mr. J. S. Sharma, Librarian, Gauhati University,
 - (ii) Miss M. D. Pugh, Librarian State Central Library, Shillong, and
 - (iii) One Principal from the Affiliated colleges.
- (e) The Finance Officer, and
- (f) The Librarian, Ex-Office Secretary.

Since extensive research in the University is undertaken on the North-Eastern Region, priority has also been accorded to bibliographical control on this region. In this regard the section has brought out bibliographies on various subjects of this region. Xeroxing facility provided by the Section has been of immense help to the readers. This section has prepared 1904 copies of books and journals.

Campus development/Engineering Cell

The North-Eastern Hill University was established in the year 1973. For building the permanent Campus in this region the Government of Meghalaya donated a plot of land measuring about 1025 acres at Mawkynroh-Umshing, Shillong to the University. The University took formal possession of this land in December, 1976

The site on which the proposed Campus of the North-Eastern Hill University is to be built is undeveloped. After taking over possession of the land from the Government of Meghalaya, the University demarcated the land by providing boundary pillars around it at an estimated cost of Rs. 45,500/- (Rupees forty five thousand five hundred) only. As the first step of development of the Campus site, the University has taken up the construction of a 2.2. Km. Access Road to the University Campus at an estimated cost of Rs. 6.49,-200/- (Rupees six lakh forty nine thousand two Hundred) only. This road was completed in December, 1979. In addition to this, the University proposed to construct two internal ring roads around the Housing Complex and Academic Complex as per architectural design of the Master Plan of the North-Eastern Hill University Campus. In this regard, the estimates for both the above ring roads amounting to Rs. 0.249 crores and Rs. 0.183 crores respectively were submitted to the University Grants Commission on May and July, 1979 for approval and sanction.

The preliminary design for Part "A" Phase-II has been completed. Part "A" phase I consists of the construction of the academic Complex for six schools including common facilities, and Housing Complex.

The Six Schools are :

- (i) School of Languages.
- (ii) School of Social Sciences.

- (iii) School of Life Sciences.
- (iv) School of Environmental Sciences.
- (v) School of Education.
- (vi) School of Physical Sciences

The preliminary estimate submitted by the Architect for the construction of 'Part' "A" Phase-I" as mentioned above is Rs. 8.5 crores. This estimate has been submitted to the University Grants Commission in November 1978 for approval and sanction of the project. In the meantime, the University decided to get the construction of the Hostel for 200 students, quarters for 50 teachers and the School of Social Sciences at an estimated cost of Rs 2 crores only on a priority basis at the first stage, although the estimate for the project-"Part 'A' Phase-I" is Rs. 8.5 crores. This proposal is under consideration of the University Grants Commission. The two units office building for the Executive Engineers' has so far been constructed in the Campus site at an estimated cost of Rs. 3,78,300/- (Rupees three lakh seventy eight thousand three hundred) only as per revised estimate submitted to the University Grants Commission. The construction work has been completed except electrification and water connection.

The University had to face serious problems in respect of housing accommodation for the various academic classes and Departments in Shillong, since there are no suitable houses available for rent. Hence, in order to have congenial atmosphere for classes necessary steps were taken by the Campus Development Cell to construct temporary buildings for this purpose at Mayurbhanj and Bijni Estates, Shillong. These temporary accommodations have been completed in mid 1977 as per plan and design approved by the University Grants Commission at an estimated cost of Rs. 66,98,602/-

These buildings have been occupied and used by the various Departments of the North-Eastern Hill University since then. The list of buildings now used by the University at Mayurbhanj and Bijni is appended at annexure "A" below.

ANNEXTURE—'A'

List of buildings for construction for the adhoc accommodation of the Academic Departments/Classes of the North-Eastern Hill University at Mayurbhanj & Bijni Estate.

Amount of estimate Expenditure
approved by the
U. G. C.

- | | | |
|---|----------------|----------------|
| 1. Construction of temporary accommodation of the various academic Departments/ Classes of the North-Eastern Hill University at Mayurbhanj. | Rs. 9,52,000/- | Rs. 9,68,639/- |
| 2. Construction of temporary accommodation of the department of Education at Mayurbhanj Estate. | Rs. 2,10,000/- | Rs. 1,92,141/- |
| 3. Construction of three storied building for the adhoc accommodation of the department of Zoology and Botany at Mayurbhanj Estate. | Rs. 5,75,000/- | Rs. 4,58,627/- |
| 4. Enclosing the open terrace and Verandah-construction & staircase at Mayurbhanj Estate for Reading Rooms for the students at Mayurbhanj Estate. | Rs. 1,14,000/- | Rs. 1,08,944/- |

5. Provision of Canteen for the students as Mayurbhanj Estate.	Rs. 77,600/-	Rs. 75,414/-
6. Construction of two Glass Houses for the Life Plants of Botany Department at Mayurbhanj.	Rs. 50,000/-	Rs. 48,391/-
7. Providing additional Water Supply at Mayurbhanj complex from the State P.H.E Department storage reservoir at Madan-Rting, Shillong.	Rs. 75,130/-	Rs. 71,922/-
8. Providing H. T. Service connection of a sub-station buildings and installation of 25 × 2 KVA transformers at Mayurbhanj.	Rs. 4,34,014/-	Rs. 3,61,624/-
9. Providing fire extinguishers for various Academic Departments at Mayurbhanj Estate.	Rs. 24,800/-	Rs. 24,141/-
10. Construction of barbed wire fencing around Mayurbhanj Estate.	Rs. 1,24,500/-	Rs. 82,721/-
11. Providing wire net fencing around the plastic pond of the Department of Zoology at Mayurbhanj Estate.	Rs. 5,600/-	Rs. 4,918/-
12. Construction of retaining wall and breast wall around the temporary Campus at	Rs. 38,000/-	Rs. 27,355/-

**Mayurbhanj Estate (Social
Science Department at Ma-
yurbhanj).**

13. Construction of Latrines for Ladies and Gents attached to the Deptt of Zoology at Ma-
yurbhanj. Rs. 24,00 - Rs. 18,561/-

Rs, 32,53,634/- Rs. 24,43,548/-

Bijni Estate -

1. Construction of building for the adhoc accom-
modation of the Depart-
ments of Physics & Che-
mistry at Bijni Estate. Rs. 10,64,200/- Rs. 10,72,414/-
2. Construction of the Ma-
thematics Department at
Bijni Estate. Rs. 3,01,500/- Rs. 3,28,347/-
- 3, Construction of the Inst-
rumentation Centre, Con-
struction of three store-
yed building for the adhoc
accommodation of the
Instrumentation Centre and
Library attached to the
School of Physical Sciences
at Bijni Estate. Rs. 3,24,100 Rs. 2,79,136/-
4. Construction of Canteen
for the Students at Bijni
Estate. Rs. 58,600/- Rs. 60,613/-

5. Construction of Hostel building for 60 students attached to the School of Physical Sciences at Bijni Estate. Rs. 4,57,300/- Rs. 4,45,309/-
6. Construction of Servants' Quarter attached to the School of Physical Sciences at Bijni Estate. Rs. 27,000/- Rs. 26,799/-
7. Providing H.T. Service connection including construction of a Substation building and for purchase of 2 transformers each 200 KVA including other Substation equipments and providing underground Cable from the substation to the different Academic Departments. Rs. 3,80,370/- Rs. 3,52,502/-
8. Providing fire Extinguishers to the buildings/ Departments of the Physics, Chemistry etc, at Bijni. Rs. 1,59,600/- Rs. 84,544/-
9. Providing De-Humidifiers in the Instrumentation Centre. Rs. 2,46,000/- Rs. 1,24,097/- (work nearing completion)
10. Providing Food-path, steps and constructions of retaining wall at Bijni Estate. Rs. 1,03,950/- Rs. 14,672/-

- | | | |
|---|----------------|--------------------|
| 11. Providing and construction of fencing around Bijni Estate at Laitumkrah, Shillong. | Rs. 1,50,000/- | *Work in progress, |
| 12. Closed cycles water circulation system in the Departments of Physics & Chemistry at Bijni Estate. | Rs. 53,150/- | work in progress. |

Rs. 66,98,602/- Rs. 52,31,981/-

Finance Department

Against the total provision of Rs. 2,08,00,000 both under Revenue, (Rs.1,05,25,000:00) and Capital (Rs.1,02,75,000:00) (Non plan & Plan) an expenditure of Rs. 1,50,37,090:00 was incurred during the year 1979-80 broadly under the following two heads :

Revenue	—Rs. 1,05,14,925 : 00
Capital	— Rs. 45,22,165 : 00
Total	Rs. 1,50,37,090 :00

The expenditure figure shown above is subject to audit. The Annual Accounts for the year 1979-80 are under compilation and will be placed before Audit as early as possible.

For want of adequate fund released by the U.G.C during the year, Finance had to face tremendous difficulties to meet the liabilities committed.

The Finance Department is yet to have a full time Finance Officer consequently the work had to be managed by one A. F. O. under overall supervision of the of the Pro Vice-Chancellor.

Although no Internal audit Section could be set up as yet, 2 Stock Verifiers were appointed at the later part of the year to conduct physical verification of all Stores and Stock maintained by different Departments of the University. During the year they could cover as many as 10(ten) Departments.

Department of Physical Training Sports and Games

The Annual Inter-Collegiate Sports Meet of this University was scheduled to be held in the last week of October and the first week of November, 1979. As in the past the tournament was to be conducted on the Zonal basis, i.e two teams from the Meghalaya Zone, one team each from the Mizoram and Nagaland Zones were to compete in their inter zonal meet in Shillong. The Mizoram and Nagaland Zonals had completed their selection, while the Meghalaya Zonal selection was scheduled to be held in the second week of October. However, due to law and order problems, prevailing in the region, both the Zonal and the Inter Zonal Meets were cancelled.

Consequently no teams from this University were sent to the Inter-University Sports Meet, since no preparation and selection were made without the Inter-Zonal Meet. The Department has extended assistance to the Post-Graduate Students in their Annual Sports Meet held in the months of May-June, 1980.

Staff :

1. Mr. G. M. War, Director.
2. Miss Trossila Nongdhar (Athletic Coach)
3. Mr. Denis W. Dunn (Football Coach)
4. Mr. P. J. Lamare (Cricket Coach)

National Service Scheme (N.S.S.)

1) Enrolment	2) Allocation	3) Actual Enrolment
Meghalaya	2,500	2,057
Mizoram	1,600	1,200
Nagaland	1,000	500
Total	5,100	3,756

Twenty two colleges affiliated under the North-Eastern Hill University are having the National Service Scheme (N.S.S.)

The programmes and activities of the N. S. S. fall into two types ; Regular Activities and Special Camping Programmes.

Under the Regular Activities, altogether 20 villages and three Institutions (jails) were adopted by various N. S. S.. The main programmes taken up were-construction of roads, footpaths, playgrounds, water tanks, Adult Education, repairing, painting and cleaning of Primary Schools and tree plantation.

Under the Special Camping Programme the main project taken up were distribution of clothes, rulers and sweets to village children. Organised sports, drawing and singing competitions for Lower Primary School Children. Campaigns on Small Saving Schemes, Co-operative Societies, Preservation of trees and Wild Life, Health and Hygiene, Women and Children's Welfare.

During the year 16 Camps were held by the different Units. The total number of the campers is as follows :

Students	—	1,336
None-students	—	42
Teachers	—	46

College Development Council

The Department came into existence from October, 1979, The Council was constituted in pursuance of Resolution, EC 13 : 77 : 42 dated 19.8, 1977 with the following Members :

- | | | | |
|-----|---|---|------------------|
| 1. | Dr. A. K. Dhan, Vice-Chancellor. | — | Chairman |
| 2. | Prof. R. G. Michael, Zoology Department | — | Member |
| 3. | Prof. A. G. George, English | — | „ |
| 4. | Prof. K. K. Gupta, Physics | — | „ |
| 5. | Prof. M. Miri, Philosophy | — | „ |
| 6. | Mr. K. M. Momin, Principal, Tura Govt. College | — | „ |
| 7. | Mr. R. N. Upadhyay, „ Sankardev College | — | „ |
| 8. | Mr. Kiremwati Ao, „ Science College
Kohima | — | „ |
| 9. | Mr. I. Yanger Ao, „ Fazl Ali College | — | „ |
| 10. | Mr. Lalawia, „ Lunglei College | — | „ |
| 11. | Mr. L. Sailo, „ Champhai College | — | „ |
| 12. | Mr. H. W. Sten, „ Lecturer, Sankardev College | — | „ |
| 13. | Mr. B. B. Kumar, Lecturer, Science College
Kohima | — | „ |
| 14. | Mr. Romkamlova, Principal, Aizawl College | — | „ |
| 15. | Director of Public Instruction, Meghalaya | — | „ |
| 16. | Director of Education, Nagaland | — | „ |
| 17. | Director of Education, Mizoram | — | „ |
| 18. | Mr. Saingenga Director of College
Development Council, NEHU, | — | Member Secretary |

Governing Body of Affiliated College :

The Executive Council is to nominate members in every Non-Government College Governing body. The University

decided to pay TA DA of the nominated members for attending the Board's Meeting. A fresh list of nominated members is being finalised to fill up vacancies where the terms of the members expired

Affiliation of Colleges

There are 33 Colleges under NEHU and out of these, two are University Colleges. List of Colleges and Courses affiliated within this year can be seen In Appendix-XIV.

Reports on Affiliated Colleges

A resolved in the Fifth meeting of the Court of NEHU on 28.3.1980, all the affiliated Colleges have been requested to submit report so as to reach the Director, College Development Council before the end of October, 1980. In general, all the Principals reported that there was no problem of discipline in their Colleges. They had been requested to give report on Courses taught in the College, strength of teachers and students classwise, results of the University Examinations, Grants received from UGC, Conferences and Seminars held or attended, Teachers undergoing research for M.Phil Ph.D. and any other achievements of the College.

Affiliation & Examination Department

1. The following Examinations were conducted by this University during the year under review,
 - P.U. (2-Year) Arts/Science/Commerce.
 - B.Sc. (Pass/Honours)
 - B.Sc. (Home Science) Pass Course.
 - B.Com. (Pass Honours)
 - B.A. (Pass/Honours.)
 - B.Ed.
 - LL.B. (Preliminary/Intermediate/Final)
 - M. Sc.
 - M.A.
 - M. Ed.

The number of candidates who appeared at each of the examinations and their results are furnished in the Statistics. All Examinations were held according to the schedule notified by the University. For the first time there was a little set back in the timely publication of the results due to the disturbed law and order situation in the North-Eastern Region. The standard of student discipline in the University as well as in its affiliated colleges was of a high order. The University was able to provide examination centres in distant places of Nagaland and Mizoram inspite of the abnormal situation that caused disruption of normal means of communication in the region which has also many other difficulties. It was possible for the University to successfully conduct all its examinations simultaneously in three political units with the cooperation and support of the State Governments.

The enrolment of students at different levels during the year is furnished at the statistics. The University conducted the First and Second semester examinations of the College of Agriculture, Medziphema during the year. The First semester examinations of the Post-Graduate Departments of English and Economics of the Mizoram and Nagaland Campuses have also completed.

The randomisation of Roll Numbers which was first adopted by the University in 1979 in the P.U.C. (Arts) only was also extended to the P.U.C. (Science) and the Degree Arts Examinations in 1980.

The Second Convocation of the University was held on April 7, 1980 and Degree were awarded to the eligible Graduates qualified in year 1975 to 1978. The total number of candidates who had applied for the award of the Degree 774 in person and 314 in absentia.

CAMPUSES

Mizoram Campus

The Mizoram Campus of the North-Eastern Hill University came into being with the formal inauguration by the Vice-Chancellor, Dr. A.K. Dhan on October 19, 1979. Three Post-Graduate Departments were open in the Campus. They are English, Economics and Education.

The activities of these Departments have been incorporated in the respective departmental reports.

Nagaland Campus

Apart from the already existing Department of Education, the new department of English was inaugurated during the academic year 1979-80.

All efforts have been made to quicken the pace of development of the Campus. The Engineering Wing of the University has already finalised, at the estimated cost of Rs 86,00,000.00 lakhs for the construction project in the permanent site of the campus. The estimated cost for electrification and water connection amounts to Rs. 4,91,000/- and Rs. 3,14,700/- respectively and the scheme has been submitted to the UGC for approval and sanction. Moreover, the University has constructed a double storey teachers' quarter at the permanent site at the cost of Rs. 5,00,000/- lakhs. The President of India and Visitor of the University, Mr. Neelam Sanjiva Reddy laid the foundation stone of the campus.

The survey work at the permanent site was undertaken by the Senior Town Planner of Kohima and the work is nearing completion. An expenditure of Rs. 20,000/- was sanctioned for necessary survey work.

The government of Nagaland provided six new quarters for the University-campus, These buildings are being used as hostels for boys and girls and for staff quarters. In addition to the faculty members posted at the campus, a number of non-teaching staff has been sanctioned to give adequate support to the teaching departments.

The campus library has been set up with 1015,806, and 165 volumes of books on Education, English and Economics, respectively.

With the starting of new post-graduate departments the University is facing serious accommodation problems in Kohima. The assistance and help of the State Government have enable the University to conduct the post-graduate classes at the campus. In the coming years the University hoped that it will be able to solve these problems.

APPENDIX I

Department of English

List of faculty members (Shillong) ,

Professors : 1. Dr. D. P. Singh, Dean of the School and Head of the Department.

2. Dr. A. G. George.

Readers : 1. Dr. S, Homchaudhuri,

2. Dr. (Mrs) A. Desai,

3. Dr. N. Hasan,

4. Dr. M. Waseem,

5. Dr. E. N. Lall.

Lecturers : 1. Mr. P. S. Guptara (on leave),

2. Mrs. T. Ao,

2. Miss J. War,

4. Mr. P. Pimomo, and

5. Dr. R. P. Sharma,

Mizoram Campus : (Aizawl)

Lecturer : 1. Mr. K. C. Baral, Lecturer-in-charge.

Nagaland Campus : (Kohima)

Lecturers 1. Mr. A. Joshi, Lecturer-in-charge,

2. Mr. K. C. Joseph, and

3. Miss N. Ganguly.

Research Activities :

Five Ph. D. scholars are working on different areas of literature. The details about the research scholars are as follow :

Ph. D. Programmes :

Name	Topic	Supervisor
1. Fr. K. George, Headmaster,	Existentialism as as Literary Theory	A. G. George

- | | | | |
|----|--|--|-----------------|
| | St. Anthony's High School, Shillong. | and its impact on the Novel and the Drama. | |
| 2. | Mr. H. W. Sten,
Lecturer in English & Khasi, Sankardev College, Shillong. | The Development of Khasi poetry : A study of English influence (1842-1940) | do |
| 3. | Mr. Anjan. K. Nath | Northrop Frye and Criticism as a systematic Science. | do |
| 4. | Mrs. Manju S. Syiem | Image of man in the Novels of Joseph Conrad. | do |
| 5. | Mr. K. C. Joseph
Lecturer in English Nagaland Campus, NEHU. | Abraham Greene : The Novelist. | Dr. D. P. Singh |

M. Phil dissertation :

- | | | | |
|----|---------------------|--|----|
| 1. | Mrs. Alvareen Tham | Schopenhauer and Nietzsche on Tragedy : A Comparative study. | do |
| 2. | Mrs. Aroti Sengupta | D. H. Lawrence as a Literary Critic. | |
| 3. | Mr. Krishna Lal | T. E. Hulme as a literary critic. | do |

Positioning of some Ex-students :

1. Miss Emi Shitri, IAS.
2. Ajoyendra Pyal, IAS.
3. Malsawmi Khiangte, IRS.
4. Miss Nabonita Ganguly, University Lecturer at Kohima, English Department.
5. Miss Janet Pugh, at Cambridge University.

6. Jona Guha Thakurta, at the University of Texas.
7. Miss Kevilino Haralu, Lecturer, Kohima Science College.
8. Miss Bhubatola Longkumer, Lecturer, Kohima
Sc. College.
9. Miss Suktara Chaudhuri, Lecturer, Kohima Arts College.
10. Arup Saikia, Lecturer, St. Edmund's College, Shillong.
11. Ananya Guha. do
12. Pinuel Basumatari, do
13. Rahmingthangi Ralte, P. G. Department at Aizawl.
14. Lalsangdelli. do
15. John Joy, St. Anthony's College, Shillong.
16. Sela Kathing, Lecturer, Lady Keane College, Shillong.

Visiting Professor :

Prof. D. Thakur of the CIEFL, Lucknow, was invited to deliver a series of Lectures on Western Stylistics and Indian Poetics at the M. Phil level for a month from June 4 to July 3, 1980. The Department has been working in collaboration with the Regional Centre of the CIEFL, particularly in the field of Language Studies.

Self-Assessment of the Department (Kohima)

The Department of English at Kohima has extended a helping hand to the activities of the Education Department Kohima. It is hoped that with the endeavours and dedication of the teachers and students and support of the University itself, the Department will be in course of time become one of the best Departments in the region. The Departmental Literary Society was inaugurated in the Department.

List of Visiting Professors, Visitors (Kohima)

1. Dr. A.K. Dhan, Vice-Chancellor.
2. Dr. A.G. George, Shillong.
3. Dr. D.P. Singh, Shillong.

4. Dr. Thakur, Director, CIEFL, Lucknow.
5. Dr. N. Hasan, Shillong.
6. Dr. M. Waseem, Shillong.
7. Dr. E.N. Lall, Shillong.
8. Mrs. T. Ao, Shillong.
9. Dr. R.P. Sharma, Shillong.
10. Mr. K.C. Baral, Aizawl.

Dr. D. Thakur, delivered a series of lectures on "Language-Structure of Modern English" to the first course of the 1st Semester students.

APPENDIX II

Department of Economics

List of Faculty members (Shillong).

- Professor : 1. Dr. T. Mathew, Dean of the School and Head of the Department.
- Readers : 1. Dr. S.N. Guha Thakurta,
2. Dr. K. Bez,
3. Dr. A. Banarji.
- Lecturers : 1. Mr. Tlanglawma,
2. Mr. M.K.S. Nair,
3. Mr. N. Gupta,
4. Mr. A. Patton (on leave),
5. Mr. U. Bajakal. and
6. Mr. E.D. Thomas.

Mizoram Campus : (Aizawl)

- Lecturers : 1. Mr. Lianzela, Lecturer-in-charge. and
2. Mr. S.K. Ghose.

Research Activities : (Shillong).

During the the year under review the Department has admitted the following students in the Pre. Ph.D course.

1. Mrs N.D. Sohkhlet, Lecturer. Economics, St. Mary's College, Shillong.
2. Miss Sanchita Sen, and
3. Mr. Markus Kharkongor.

Besides, offering the Pre. Ph. D. Course to full time students, the Department is also offering Pre. Ph D. Course for the benefit of college teachers so that the department might help in the efforts at upgrading the standard of teaching at the college level.

1. Prof. T. Mathew & Mr. M.K.S. Nair "Mode of production Relations in N.E. Region : A Study with reference to Meghalaya" ICSSR Research Project (in progress).
2. Dr. S.N. Guha Thakurta "Poverty, Unemployment and Development Policy in N.E. Region (phase I) ICSSR Research Project.
3. Mr. M.K.S. Nair "Agrarian Relations in Meghalaya"
4. Mr. A. Patton "Some aspects of Agricultural Development in Nagaland."

Positioning of some ex-students

1. Mr. Parijat Dutta, Asstt. Administrative Officer, General Insurance Corporation,
2. Mr. M. Kharkongor, Lecturer, Synod College, Shillong.
3. Mr. Nirmalaya Dutta, Lecturer, St. Edmund's College, Shillong.
4. Miss Sahara Ahmed, Lecturer, U.C. College, Barapani.

5. Mr. I. Marsharing, Lecturer, Nongstoin College.
6. Mr. Donkumar Roy, Lecturer, Synod College, Shillong.
7. Miss Robina Laloo, Research Assistant, Govt. of Meghalaya.
8. Miss Martha Kharshiing, Research Officer, Govt. of Meghalaya.
9. Miss C. Langstieh, Research Officer, Govt. of Meghalaya.

Visiting Professor

Professor N. Krishnaji, Centre for Studies in Social Sciences, Calcutta was in the Department as a consultant in the Research Project and delivered lectures on Political Economy of Land Reforms on June 17, 1980.

Collaboration with other Departments

By the very nature of inter-relationship between the discipline of the Departments of the School of Social Sciences, the academic activities of the Department are organised on an inter-disciplinary basis ; the courses of study and programmes of research take into account the close relationship that exists in the study of man in his social life and social relations. The Department is offering a course on North Eastern Region and its Economy along with other Departments of the School of Social Sciences as a compulsory non-credit course for the time being.

APPENDIX III

Department of History

List of Faculty members

- Professor : 1. Prof. N. Subramanian (on contract for 2 years ending June 1979).
- Readers : 1. Dr. S.N. Roa, Head of the Department.
2. Dr. J.B. Bhattacharjee,

3. Mr. P. Sudhir, (on leave)
4. Mr. Sandeep Chawla, and
5. Miss M. Momin.

Research Activities

The Department has been engaged in research relevant to the N.E. region, in its political, social and economic aspects. Almost all the research students in the Department are working on various themes and the teachers have undertaken some individual projects and published papers relevant to the region, of which are as follows.

Students

1. Mr. David R. Syiemlieh : "Constitutional development in the K& J Hills 1824-1950".
2. Miss Jharna Dutta : "Social Change in South Cachar 1800-1900."
3. Mrs. Pryiam Goswami : "Socio-Economic impact of Tea Industry in upper Assam."
4. Mrs. E. Tham : "Khasi Syiemship & the British till 1947."
5. Mrs. C. Pari : "Social Change in Mizoram"
6. Mr. Lal Rinawma : "Political Development in Mizo Hills 1935-65."
7. Mr. K. Nakro : "Megalthic Culture of the Angami Naga."
8. Mrs. A. Bareh : "Cultural Heritage with special reference to their megalithic monument."
9. Miss Sudata Sikdar : "Assam-Arunachal Pradesh (NEFA) Trade 1874-1905: A study of British Policy."

10. Miss V. Soma : "The works of the American Baptist Mission in Nagaiand, 1835-1855"
11. Mrs. I. Kharsati : "Social Change in Khasi Hills, 1833-1931."
12. Mr. Susil Dutta : "The Mughals Relation with Eastern India, 1661-1741."
13. Mrs. Withal M. Shullai : "The Jaintia and the English."
14. Mr. Dillip Dutta : "Megalic culture among the Khasis."

Teachers : research activities.

J. B. Bhattacharjee.

"Bhutan Policy of the Ahoms" paper presented in the XVIIth Annual Conference of the Institute of Historical Studies, Gangtok, 1979.

"U Kiang Nongbah : A Rebel or Liberator," paper presented in the seminar on "History of Meghalaya" organised by the SCERT, Govt of Meghalaya, Shillong, 1979.

"Khasi-Bengali to Roman : Colonial Transformation of the Khasi Jaintia Hill" a paper co author S. Bhattacharya of Lady Keane college, presented in NEICSSR Seminar on 'Linguistic Situation in N. E. India', Shillong

"Colonialism and Language Politics in Assam" a paper presented in the XVIIth Annual Conference of the Historical Studies, Nagpur, 1979.

"The Dimassas" a paper contributed for the seminar on 'Development Strategies In N. E. India' to be organised by the Planning Commission.

Helen Giri.

"The role of women in Khasi Society" a paper presented at the seminar organised by the SCERT, Shillong, 1979.

"Administration of Justice in Khasi Hills" ICSSR (programme of occasional papers, N.E.R. Centre).

Milton S. Sangma

"Annexation of the Garo Hills by the British" presented in the seminar on 'History of Meghalaya' organised by the SCERT, Shillong.

Positioning of some Ex-students :

1. Mr. David R. Syiemlieh, Lecturer in the Uni. Department.
2. Mr. K. Nakro, Lecturer in the Uni. Department.
3. Mr. A. Sandilya, Lecturer, St. Edmund's College, Shillong.
4. Mrs. E. Giri Tham, Lecturer, UCC, Barapani.
5. Mr. Andrew Khiangte, Joined as the Junior Research fellow
6. Mr. K. Pradhan, do
7. Mr. Ajit Kr. Irom do
8. Mr. M. Akang do

Visiting Professors

The Department invited experts from other Universities and Centres as visiting professors to deliver lectures to the students on topics related to the courses offered.

1. Prof. V. A. Narain, Patna University delivered lecture on "Social Change in Modern India, 1979".
2. Dr. V. A. Raikar, Dy. Director Govt. of Arunachal Pradesh spoke on "Archaeology of Arunachal Pradesh"—18th & 19th October, 1979.
3. K. S. C. G. wda Research Officer, Central Institute of Indian Languages, Mysore, lectured on "Linguistic aspect of N. E Indian".
4. Prof E. J. Swartzburg, University of Minnesota, USA, delivered lecture on the "Historical Atlas of South Asia", March 15, '80.

The Department organised a UGC sponsored seminar on the History and Culture of the North East India from April 26-28, 1979. The seminars and conferences were planned on themes relevant to the region and research programmes of the Department were on the areas where materials were circulated and revised in the light of the discussions and being used by the Department. This has helped in strengthening the teaching programme and in planning further studies.

In a seminar organised by the Department a number of experts belonging to the Scheduled Tribes of the region were invited. Besides, experts from Gauhati and Dibrugarh Universities participated.

Assessment of the Department

The Department takes pride in putting on record its achievements in the last five years promoting the objectives as enshrined in the University Act. The courses on the region are a major breakthrough considering that the Indian Universities have so long done very little towards the creation of mutual understanding of the problems of evolutions, change and the values of traditional institutions of this area. The efforts of the Department are being appreciated and the response is encouraging. The Documentation and Archaeological Centres proposed by the Department are expected to further strengthen its activities.

Departmental Organisation.

The History Association formed in 1974 to promote the creative faculties of the students, is managed by the students, in which teachers are also involved. The association organised seminars, symposia, lectures and film shows on historical and allied subjects. The association has instilled a sense of discipline and purpose amongst its members.

The members of the faculty have been instrumental in the formation of the North-East India History Association for

the promotion of research in regional history. The association organised a seminar on "History and Culture of North East India" in 1979. The seminar was attended by historians and history teachers of this region. Dr. J. B. Bhattacharjee and Dr. Milton S. Sangma were elected General Secretary and Treasurer respectively. Dr. S. N. Roa, Dr. Imdad Hussain and Mr. K. Nakro were elected members of the Association.

Dr. J. B. Bhattacharjee and Dr. Milton S. Sangma were elected President and member of the Governing Body of the North East India Council for Science and Research.

APPENDIX IV Department of Philosophy

List of faculty members

- Professor : Dr. Mrinal Miri
- Readers ; Dr. (Mrs) Sujata Miri, Head of the Department.
Dr. Harsh Narain,
Dr. Netrananda Malla,
- Lecturers : Dr. R.V.Vyas,
Dr. (Miss) Rita Gupta.
Mr. Jagat Pal, and
Mr. S.C. Daniel (temporary).

Research Activities

A research project of "An Anthropo-Philosophical approach to study of man and his religion in North-East India" under the auspices of the ICSSR, undertaken by Dr. (Mrs) S. Miri is now nearing completion of its first phase. In the first phase of the project the main object was to clear

the various Intellectual and emotional obstacles which stand in the way of an authentic understanding of the traditional tribal religions. The results of this research are likely to be published in the near future.

The following students are working towards their Ph.D degree in the Department. Topics of their research are mentioned against their names.

1. Shephali Panigrahi, : "Gandhi's Philosophy of man."
2. B. Hmar. : "Morality and Tribal Culture."
3. B. Mahanta. : "The Concept of Heaven and Hell."

The following students have cleared their course work for the M.Phil degree and working on their respective dissertations. The topics of their research are mentioned against their names.

1. Bilkis Banu Begum : "Dispositional property of Mind."
2. D. Chattopadhyay : "Philosophical problems in the Religious thought of Rama Krishna."
3. Geeta Sinha : "The Concept of Dreaming."
4. Imchayanger : "Religious Life : Ao Nagas."
5. Khatpade Mahanta : "Private Language : A Critical Study."
6. Mahua Sircar : "The Philosophy of Un-conscious Dispositions in the mind."
7. Sipra Serbajaa : "Nietzsche : Culture and God."
8. S.M. Paokai : "Understanding Tribal Culture with particular reference to 'Thaddu' tribal culture of N E. India."

The following students are doing their course work towards their M.Phil degree. The proposed subjects for their theses are mentioned against their names.

1. Bishon Buam : Knowledge of Culture : A problem in the Theory of Knowledge.
2. D. Tarafdar : Meaning of Culture.
3. L. Sailo. : Love and the Moral Life.
4. Lalthansanga : Philosophy of Mind and Culture.
5. Querang Z.L. : Language and Reality.
6. Ranjit Deb : Gandhian Concept of Man.
7. Dipti Das. : (To be finalised).

The Department proposes in the near future to bring out books, in various areas of philosophy, which will be useful to college teachers and under-graduate students. This will essentially be a collective endeavour on the part of the part of the faculty. Some work has been done towards this end.

Positioning of ex-students

1. Archana Baruah : Lecturer, St. Mary's College, Shillong.
2. Tapan Senapati (SC) : I.A.S.
3. L.T. Sailo (ST) : Lecturer, Pachhunga Univ. College, Aizawl.
4. Ruma Ghosh : Research Fellow, Jadavpur Univ., Calcutta.
5. Lima Chankary (ST) ; Lecturer, Fazi Ali College, Mokokchung.
6. Shephali Panigrahi : Junior Research Fellow in the Deptt.
7. B. Hmar (ST) : —do—
8. Bina Mahanta : —do—

Seminars

The Department organised an All India Seminar on "Religion and Society of the North-East," in June 1979. The

proceedings of the seminar was edited by Dr. (Mrs) S. Miri has now been published by Vikas Publishers. Dr. V.C. Kanito Sema of Fazi Ali College and Mr. P.J. Jamir of Patkai Christian College presented papers in the seminar mentioned above. Their papers are also included in the book.

Dr. R.P. Pandey of Visva-Bharati,, Santiniketan and Dr. R. Prasad of Kanpur visited the Department in 1960 and gave lectures to the students.

Regular weekly and fortnightly seminars of the Department are held for the benefits of students. The Department is also making effort to collaborate its programmes with other Departments of the School of Social Sciences. The Philosophy Association of the Department organised weekly seminar and this has proved very useful for the students and has broadened their vision of the various problems of the region.

APPENDIX V

Department of Political Science

List of faculty members :

- | | |
|-----------|---|
| Professor | : Dr. C. N. Bhalerao, |
| Readers | : Dr. B. Pakem,
Dr. R. L. Walli, Head of the Department
Dr. R. S. Gabriel |
| Lecturers | : Mr. M. B. Nair
Mr. S. Balan
Mr. R. Borgohain
Mr. S. J. George
M. L. S. Gassah, and
: Mr. P. S. Lorin |

Positioning of some Ex-students :

1. Mr. K. Puroh, Lecturer, Kohima Arts College,
2. Mr. W. Mero do
3. Miss Pamela Phillips do
4. Mr. P. S. Dkhar, Lecturer, Lady Keane College, Shillong
5. Miss Khongsngi, do
6. Miss E Laiteloang, Lecturer, Sankardev College, Shillong,
7. Mr. Nongkhaw, Lecturer, St. Anthony's College, Shillong
8. Miss B. Nongrum, Lecturer, St. Mary's College, Shillong
9. M. C. Jamir, Lecturer, Fazl Ali College,
10. Mr. V. Sema do
11. Mr. Sangtam do
12. Mr. D. Bhattacharjee, Lecturer, Cachar College, Silchar
13. Mr. Lalchamlina, Lecturer, Aizawl College,
14. Mr. W. S. Boney, Principal, Nongstoin College, and
15. Miss T. Marbaniang, Lecturer, St. Mary's College, Shillong

Seminars and Conferences :

During the year 1979-80 the Department in collaboration with other Departments organised the following talks :

- i. Talk on "Caste, Class and Politics of Bihar" by Mr. Ghanshyam Pradesi, Alumnus Hopkins University and presently at the School of International Studies, JNU, New Delhi on March 12, 1980.
- ii. Talk on the Role of Local Self Government in the Transformation of rural society" by Mr. Prasanta Sur, Minister

of Local Self Govt. of West Bengal on October 17, 1970 was organised jointly by the Department and the NER Centre of the ICSSR, Shillong.

A workshop sponsored by the USEFI at Hyderabad on "American History" from March 23 to April 13, 1980 was attended by Mr. S. J. George, Lecturer of this Department.

Dr. R. L. Walli attended a workshop organised by the Punjab University on "The Revision of International Politics Courses" from April 2-15, 1980.

APPENDIX VI

Department of Sociology & Anthropology

List of faculty members

Readers : Dr. A. P. Sinha

Dr. A. C. Sinha

Dr. M. N. Kama

Lecturers : Dr. C Nunthara

Dr. V. Xaxa

Mr. N. Kumar, and

Mr. L. Imchen

Positioning of some Ex-students :

1. Mr. K. L. Khana—International Crop Institute of Semi-Arid Regions Hyderabad
2. Miss Margaret B. Challam—Meghalaya Tribal Research Institute, Shillong
3. Mr. Vanupa Zathang—Assistant Manager (Admn), Ordinance Factory Govt. of India, Kanpur,

4. Mr. Sujit Kumar Dutta—Research Scholar, IIT/Kanpur.
5. Miss Saswati Biswas—Research Fellow, Centre for Himalayan Studies, North Bengal University, Siliguri,
6. Mr. L. A. Ao—Lecturer, Agricultural College, Nagaland.
7. Miss. A. Jamir - All India Radio, Kohima, Nagaland.
8. Mr. Hoto Sohe—Research Officer, Institute of Culture, Kohima.
9. Mr. Sunil K. Singh—Sales Executive (Training), Orient Longman India, Private Ltd. Calcutta.

Seminars and Conferences :

As a regular feature, the Department conducted internal seminars, every Friday, in which the P. G. students, research scholars and teacher participated. The Department organised, with the financial assistance of the NERC (ICSSR), a ten day workshop on Research Methodology in Social Sciences in March 1980. This workshop was attended by about 40 research scholars from the region and the Social Scientists.

APPENDIX VII

Department of Geography

List of Faculty members :

- Readers** : 1. Dr. Majid Husain, Head of the Department.
2. Dr. R.K. Rai.
- Lecturers** : 1. Dr. R. Gopalakrishnan
2. Mr. A.C. Mohapatra.

3. Mr. Ali Ahmad
4. Mr. S.S.A. Jafri.
5. Mr. P.G. Momin.

Visiting Professors

In the year 1979-80 a number of scholars visited the Department to deliver lecture and to conduct examinations. Dr. J.E. Schwartzberg, University of Wisconsin, a Fulbright Professor, who was attached to the Centre for the Study of Regional Development, J.N.U. New Delhi visited the Department in the second week of April, 1980 and delivered popular lectures on 13th, 14th and 15th April, Dr. Schwartzberg who prepared a "Historical Atlas of South Asia" which has been internationally recognised, delivered lectures on "Glimpses of Indian History through Maps," "Castes of the Great Plains of India and their role in the Indian Politics" and "How to prepare a Historical Atlas." Dr. A. Ahmed, Associate Professor in the Centre for the Study of Regional Development, JNU, New Delhi delivered 3 lectures on 2nd April, 1980 on "The Social Relevance of Geography".

Participation in Seminars and conferences.

The faculty contributed six papers at the Annual Conference of the National Association of Indian Geographers held at Chandigarh in January, 1980. The following are the names of faculty member who contributed papers to the conference.

Names	Nos. of Articles
1. Dr. R.K. Rai	— 2 Papers
2. Dr. M. Hussain	— 1 „
3. Dr. R. Gopalkrishnan	— 1 „
4. Mr. A.C. Mohapatra	— 1 „
5. Mr. S.S.A. Jafri	— 1 „

Publications

- Mr. A.C. Mohapatra ; Economic Development in the State of Madhya Pradesh-India. (published in the Third World Planning (Review, Vol. 11).
- Mr. S.S.A. Jafri ; "Aerial Photo Interpretation Techniques in Agricultural Geography" (published in "Recent Trends and Concept in Geography" ed. R.B. Mandal.)
- Dr. Majid Husain ; "Agricultural Geography" Inter India, New Delhi.

APPENDIX VIII

Department of Education

List of faculty members (Shillong)

- Professor : 1. Dr. C.L. Anand.—Dean of the School and Head of the Department
- Readers. : 1. Dr. K.J. Joseph,
2. Dr. P.P. Gokulanathan,
3. Dr. (Mrs) K.S. Lyngdoh.
- Lecturers : 1. Dr. Mathew George
2. Dr. P.K. Ganguli.

Collaboration with other Departments

The Departments of Geography and Sociology collaborated in the course work of the M. Phil programmes where areas related to these disciplines were to be taught. The Department undertook the research project on micro-teaching sponsored by the NCERT. Another research project

of the Ministry of Education is also being conducted now. The second research project of micro-teaching sponsored by the NCERT is nearing completion. The Department also organised in collaboration with the NCERT a Seminar on the Revision of the B.Ed. Programme. Dr. Anand, Dr. Joseph, Dr. Gokulanathan and Dr. Ganguli participated in the orientation programme for selection test organised by the State Bank of India. Dr. Anand acted as a resource person in the Comprehensive Access to Primary Education Programme (CAPE) project undertaken by the SCERT, Shillong. Dr. Ganguli helped the State Institute of Science, Kohima for developing educational instruments. Dr. Joseph and Dr. Mathew George helped the P.G.T.C. in their programme. Dr. C.L. Anand delivered a talk on "Models of Teacher Education Programmes at Higher Level in the University Department of Education Kerala". Dr. Anand also helped the UGC in evaluating the work of the Centre of Advanced Studies in Education, University of Baroda for the past 15 years and suggesting programmes for the future.

Dr. K.J. Joseph attended a seminar on Management of Educational System organised by the Administrative Staff College of India, Hyderabad, in June 1980. He delivered a talk on "research, development and the life of the people of North Eastern India in the Workshop on Research Methodology organised under the ICSSR in Shillong. He also delivered a talk on current problems in educational development in the meeting organised by the Thinkers Forum in Nagaland. He gave another talk on Planning Progress in education in the Nagaland College of Education.

Dr. (Mrs) K.S. Lyngdoh attended an All India Seminar on Women Education in Jabalpur and presented a paper on the 'Impact of Women's Education on India Society'. Dr.

Lyngdoh also attended as resource person a workshop-cum-seminar for production of literature in Khasi and also helped in the career masters training programme conducted by the SCERT, Shillong.

Dr. Mathew George acted as resource person in the career master training course organised by the SCERT, Shillong. Dr. P.K. Ganguli acted as resource person in the NAEP programme conducted by the State Institute of Education, Nagaland and also in the career masters training programme conducted by the SCERT.

Positioning of ex-students

1. Arena Tali, Research Assistant, NEHU.
2. James Langsteh, Councillor, SCERT, Shillong.
3. Suklin Mawroh, Lecturer, Synod College, Shillong.
4. Odelia Kharkongor, Lecturer, Tura B.Ed College, Tura.
5. Modest Hynniewta, Lecturer, Jowai Govt. College.
6. Rosana Lyngdoh, Lecturer, SCERT, Shillong.
7. Louis Vernal, Edn. Officer, Mizoram.
8. J. Liankhuma, Lecturer, St. Edmund's College, Shillong.
9. Gitika Dutta, Research in Baroda.
10. Kathak Solan, Lecturer, Patkai Christian College.
11. Meelam Sirha, PGTC, Shillong.

Seminars

The Department organised a seminar on Revision of the B.Ed Programme in collaboration with the NCERT, in which participants from different parts of the Region participated. Dr. C L. Anand directed the seminar. As a follow up action a draft syllabus for the revised B.Ed has been prepared and a workshop was organised to finalise the syllabus.

Dr. Anand is directing a project on the Effect of Micro-Teaching on Teaching Self-Concept. He is also engaged in compiling the survey work in Education in Meghalaya. In collaboration with Dr. S. Kumar, DERS, Aizawl he is preparing a Modernity Attitude Scale for the Region.

Dr. K J. Joseph directed a survey of school enrolment in Longkum village of Nagaland and he is preparing the report of the survey. Currently he is directing a project on the National Scholarship Scheme in Meghalaya and Assam, sponsored by the Ministry of Education.

Dr. P.P. Gokulanathan was a resource person in a workshop on Evaluation of Educational Outcomes organised by the Centre for Adult and Continuing Education, NEHU. He collaborated with the National Institute of Motivational and Institutional Development, Bombay in conducting a project on entrepreneurial development in tribal youth.

Dr. (Mrs) K.S. Lyngdoh presented paper on General Schools which was broadcast through the All India Radio, Shillong. She delivered a lecturer on the Importance of Psychology for teachers in a refreshers' course organised by the CIEFL.

Dr. M. George is continuing with the research project 'Effect of Micro teaching on Teaching Self-Concept and Teaching Competence of Student-Teachers'. The project was sponsored by the NCERT. The project is nearing completion.

Dr. P.K. Ganguli and Dr. C.L. Anand are jointly conducting a survey on the State of Meghalaya. The report is in progress.

Professors P.N. Dave and C.S. Subha Rao from the NCERT visited the Department in March, 1980.

faculty members : (Aizawl)

Reader-in charge : Dr. M. S. Padma

Lecturers : 1. Dr. M. A. Sudhir Kumar
2. Mr. P. K. Gupta

Seminar.

Dr. M. S. Padma gave a seminar on System of Observation at the Department of Education, University of Indore, in July 1980.

Mr. P. K. Gupta gave a seminar on Guildrod's Structure of Intellect at the Department of Education, Kohima in June 1980.

Faculty members : (Kohima)

Readers : 1. Dr. K. K. Sharma
2. Dr. S. P. Bhattacharya
Lecturers : 1. Mr. J. Chand
2. Dr. S. K. Jindal

List of visiting Professor/Lecturers :

1. Dr. M. S. Padma (Visiting Professor)
2. Dr. Methew George, Lecturer (Visiting)
3. Mr. P. K. Gupta, Lecturer (Visiting)
4. Dr. P. K. Ganguli, Lecturer (Visiting)
5. Dr. P. Gauri, Lecturer (Part time)
6. Dr. Amarjit Cemeotra, Lecturer (Part time)
7. Mrs. S. K. Sinha, Lecturer (Part time)
8. Mrs. C. Rai, Lecturer (Part time)

Seminar.

A one-day seminar on "Adult Education was organised by the Department in collaboration with Department of Education, Nagaland, and State Institute of Adult Education. The seminar was attended by students, officers and many other prominent citizens of Kohima. The faculty members of the

Department presented five papers in the seminar. The seminar aimed at evaluation of the Adult Education Programme of the Education Programme of the State and to encourage students of the Department to undertake more research works on the subject at the M.A. / M Phil. and Ph. D. Levels. The seminar got wide publicity from local newspapers, AIR (Kohima) and the University Magazine.

Self-assessment of the Department :

This Department is only two years old. Yet in this short period it has opened the minds of the students to the importance of specialised studies in different disciplines. Within a short span of two years, the Department has played a major role in the Educational life of the people of Nagaland.

Visiting Professors/Experts :

1. Prof. D. Thakur, Director, CIEFL, Lucknow, lectured on "The Philosophy of Education". The lecture was followed by a discussion.
2. Mr. R. K. Sharma, Director, Department of Education, Nagaland lectured on "The Role of English language in India" and "The National Adult Education Programme in India."
3. Dr. R. N. Prahan, 16 Assam Rifles, Kohima gave a talk on "Awareness regarding general diseases for a common man".
4. Mr. P K. Chakravarty, Programme Coordinator, Educational Technology, spoke on "Educational Technology"

Other activities :

On September 5, 1979, the Department celebrated the Teachers' Day in which Vice-Chancellor Dr.A.K. Dhan, was the

Chief Guest A seminar on "Ethics and Contemporary Politics in India: The Role of Educationists" was organised. Three best teachers from Meghalaya, Mizoram and Nagaland were honoured at the occasion.

APPENDIX IX

Department of Zoology

List of faculty members

	Name	Specialisation
Professor	1. Dr. R. G. Michael, Head of the Department	Animal Ecology, Fresh Water Biology and Taxonomy.
Readers	1. Dr. M. K. Khare	Developmental Biology of Animals.
	2. Dr. K. Chatterjee	Animal Cytogenetics.
	3. Dr. A. R. Varman	Animal Physiology.
	4. Dr. J. R. B. Alfred	Biosystematics, Ecology (Forest & Freshwater).
	5. Dr. R. Lalthan- tuanga	Animal Biochemistry.
Lecturers	1. Dr. B. K. Ratha	Animal Biochemistry.
	2. Dr. S. A. K. Nasar	Fish & Fisheries, Lim- nology and Fish Ecology.
	3. Dr. B. K. Sharma	Systematics and Limnology.

(A) Ph. D. Enrolments

Name	Title	Supervisor
1. Mr. Zohmingthanga JRF, 15.9.9	Survey of Mammals in Balphakram Forests.	Dr. R. G. Michael

2. Mr. Anypam Roy, JRF, 13.7.79 Survey of insect pests of Balphakram Forests. Dr. M. K Khare

3. Mr. SudiptaChou, JRF, Megh. Govt. studies on the colours of integument of insects, their influence of environmental and hormonal factors. Dr. A. R. Varman

(B) Research Schemes :

Project Leader Sponsoring Agency Schemes

1. Prof. R. G. Michael U.G.C. Biological Productivity in aquatic ecosystems of the Hill regions in the North Eastern India.

2. Dr. J.R.B. Alfred U.G.C. Biosystematics of family Chironomidae.

3. Prof. R.G. Michael N.E.C. Fishery production of North Eastern Hill Regions of India.

4. Prof. R. G. Michael F.R.C. Survey of vegetation and flora, fungal insect pathogens and wild mammal of Balphakram forests of Garo Hills.
Dr. R. R. Mishra Dehradun
Dr. M. K. Khare
Dr. R. R. Rao

5. Dr. A. R. Varman U.G.C. Hormones controlling molting and wound healing in housefly *Musca domestica*.

6. Dr. B. K. Ratha U.G.C. Studies on physiological and Biochemical effects

- on fishes of piscicidal agents from certain plants used in fish killing in this region.
7. Dr. B. K. Ratha (N.E.H.U.) Survey of plant with piscicidal properties in this region and their effects on freshwater animals.
8. Prof. R. G. Michael (I.C.A.R.) Studies on ecology and biology of commercially important fish fauna in selected water bodies of North Eastern Hill States.
Dr. K. Chatterjee
Dr. J. R. B. Alfred
Dr. S. A. K. Nasar
9. Dr. S. A. K. Nasar (U.G.C.) Studies on the Ecology of certain hill stream fishes of India.

Departmental Organisation (Zoonic Club)

The following were the activities of Zoonic Club during the session 1979-80.

The 'Zoonic News' (Vol. 7), the annual publication of Zoonic Club, was released on Nov. 21, 1979 by Mrs S. C. Barwar. Vice-Chancellor, Dr A. K. Dhan was the chief guest on the occasion. The Zoonic Club organised the following talks.

(i) A talk on 'University Education in W. Germany', was delivered by Mr. Olvar Muller-Liebman, Biologist from Tropical Institute, Hamburg, W. Germany. (October 1979).

(ii) A talk on "Ecology of Elephants" was delivered by Mr. B.K. Lahiri Choudhury (April 1980).

(iii) H.C. Sharatchandra from Bangalore delivered a talk on the Ecology of spotted-deer. (Nov. 1979).

Visiting Professor/Expert

- (1) Prof. N.K. Gupta (Chandigarh).
(March-July, 1979 as visiting Professor to teach Parasitology).
- (2) Mr. Olof Muller Liebman (Germany).
- (3) Mr. B.K. Lehiry Choudhury (Calcutta).
- (4) Mr. H.C. Sharatchandra (Bangalore).
- (5) Prof. H. Vashist (Chandigarh).

APPENDIX X**Department of Botany****List of faculty members.**

	Name	Specialisation
Professors	1. Dr. P.S. Ramakrishnan	Ecology.
	Head of the Department.	
	2. Dr. R.R. Mishra,	Micobial Zoology
Readers	1. Dr. R.S. Tripathi,	Population Ecology.
	2. Dr. A. Singh,	Cytogenetics.
Lecturers	1. Dr. Y.S. Chauhan,	Plant Morphology.
	2. Dr. R.R. Rao,	Plant Tezonomy.
	3. Dr. L.C. Rao,	Algal Ecology.
	4. Dr. P. Tandon,	Plant Physiology.
	5. Dr. B.K. Dutta,	Algology.
	6. Dr. R.K. Kohli (Pool Officer)	Plant Physiology.

Research Activities

Rao, R.R. & Jain, S.K. 1979 : A synopsis of some recent name changes in plants of the Indian sub-continent. *Indian For.* 105(8) 565-570.

- Rao, R.R. & Razi, B.A. 1979 : An artificial key to the deciduous trees of Mysore district. *My forest* 14 (4) : 253-266.
- Dutta, B.K. & Isaac. I. 1979 : Effect of inorganic amendments (P&K) to soil on the rhizosphere microflora of antirrhinum plants infected with *Verticillium Dahliae* Kles. (*Plant and Soil* 52 : 561-569.
- Dutta, B.K. & Isaac. I. 1979 : Effects of organic amendments to soil on the rhizosphere microflora of antirrhinum plants infected with *Verticillium dahliae* Kles. *plant & soil* 53: 99-108
- Dutta, B.K. & Issac, I. 1979: Seasonal variation of fungistasis in some soils *Trans & Mycol. Soc.* 73(1) 157-159.
- Dutta, B.K. 1979 : Effects of growth regulators on carbohydrates metabolism of *Zizyphora* gall and normal stem tissues in culture. *Biochem. Physiol. Plantarum* 174, 772-779.
- Kohli, R K, & Sawhney, S: Promotory Effect of Ga₁₃ on flowering of *Amaranthum*, a short day Plant, *Biol. Plant (praba)* 21(4) : 206-21, 1979,

Ph. D. students and the titles of their research works.

Name	Title of research	Supervisor
1. Mr. Pijush Kanti Das	Microbial decomposition of pine litter (<i>Pinus Kasya</i>) an ecological approach. (submitted).	Dr. R R. Mishra
2. Mr. Monojit Deb	Studies on the ecological & cultivational aspects of solosidine yielding solanums of Meghalaya.	Dr. P.S. Rama-krishnan

3. Mr. B.K. Tiwari Studies on Microflora of a freshwater lake of Shillong - an ecological approach. Dr. R.B. Mishra
4. Mr. G.D. Sharma Ecological studies on mucorhiza of pine (*Pinus Kesiya*) —do—
5. Mr. Jasbir Singh Studies on structural & functional aspects of two subtropical humid forest type of Meghalaya.
6. Mr. Ashosh Kumar Studies on the primary productivity growth pattern & nutrients Dynamic of Khasi pine (*Pinus Kesiya*). —do—
7. Miss Papiya Dev Contributions to the comparative biology of *Eupatorium* ssp. —do—
8. Mr. O.P. Toky Studies on the ecological impact of shifting agriculture (jhum) of forested Ecosystem. Dr. P.S. Ramakrishnan
9. Mr. Bhakar Neogi Study on the weed flora of Agriculture lands and fishery tanks in Meghalaya (submitted). Dr. R.R. Rao.
10. Mr. S. Ravindran Radiobiological in alkaloid yielding solanums. Dr. Y.S. Chauhan
11. Miss Jrialsibon Kharbteng Morphogenetic responses ethrel treatment in medicinal solanums. —do—

12. Mr. P.P. Kharbuli Ecophysiological studies on Mycorrhizae of two common timber yielding plants. (*Schinus wallichii* and *Mesua ferrea*) of North Eastern India. Dr. R.R. Mishra
13. Mr. A.S. Yadav Studies on population dynamic *Eupatorium odoratum*, *E. adenophorum* and *E. riparium* Dr. R.S. Tripathi
14. Mr. S.P.S. Kush Population dynamics of certain early colonisers in successional environments following slash & burn agriculture in Meghalaya. Dr. P.S. Ramakrishnan & Dr. R.S. Tripathi
15. Miss A. Khonglam Cytogenetical studies on weeds of N.E. India. Dr. Avtar Singh
16. Mr. K. Kuruvilla Cytogenetical studies on North Eastern crop plant. —do—
17. Mr. R.P. Shukla Studies on the adoptive strategy of a few selected tree species of the north-eastern India. Dr. P.S. Ramakrishnan
18. Mr. K. Haridasan Forest Flora of Meghalaya Dr. R.R. Rao
19. Mr. S. Myrthong Studies on Monocot Flora of Meghalaya —do—
20. Mr. N.S. Jamir Fern Flora of Nagaland —do—
21. Miss M. Satptue Aerobiological studies of Shillong. Dr. R.R. Rao & Dr. B.K. Dutta.

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|-------------------------------|--|------------------------|
| 22. Mr. Y. Kumar | Studies on the Forest Flora of Balphakram Sanctuary. | Dr. R.R. Rao |
| 23. Mr. B.P. Roy | Studies on the weed biology of <i>Echinochloa crusgalli</i> and its competitive relationships with rice. | Dr. P.S. Ramakrishnan |
| 24. Mr. A. Gathphoh | Mycorrhizal fungi of orchids. | Dr. R.R. Mishra |
| 25. Mr. Priyatosh Chakravorty | Survey of diseases of forest flora of Balphakram | —do— |
| 26. Mr. J.P.N. Rai | Population regulation of certain weedy species of Meghalaya. | Dr. R.S. Tripathi |
| 27. Miss Indira Bhattarai | Study on mycorrhiza of certain crops of Meghalaya. | Dr. R.R. Mishra |
| 28. Mr. P. Pradhan | Studies on competitive interaction between <i>Paspalum dilatatum</i> and <i>Trifolium repens</i> | Dr. R.S. Tripathi |
| 22. Sudhir Trivedi | A comparative study of reproductive strategies of two common plants Meghalaya. | —do— |
| 30. Shri Ram Boojh | Ecological adaptations forest ecosystem with emphasis on some tree species. | Dr. P. S. Ramakrishnan |

31. Shri B. K. Mishra : Studies on jhum (slash and burn cultivation) at higher elevations of Meghalaya.
32. Shri K. G. Saxena : Studies on the co-physiology of early successional plant population of jhum fallows.

Distinguished Visitors to the Department :

During the session following Scientists visited the department and gave seminars and took part in discussion with staff and students.

Name of the Visitor	Title of talk/seminar
1. Prof. K. K. Nanda, University of Gorakhpur	Ecology of vivases.
2. Prof. K. K Nanda Department of Botany Punjab University Chandigarh	Physiology of flowering plants and effect of hormones on root formation.
3. Prof. V. S. Ramadas School of Life Sciences University of Hyderabad.	Photosynthesis hotorespiration and stomatal physiology.
4. Prof. V. Kaul Srinigar University Srinagar.	About ecological aspects of Dal Lake in Srinagar.

Apart from the above distinguished scientists, the following persons also visited the Department and had discussions with students and staff members.

Prof. R. N. Kopil, Dr. K. G. Mukherjee, Dr. S. N. Daxeni, Dr. S. P. Bhatnagar, Delhi University, Delhi, Prof. G P. Mishra Saugar University, Sagar, Prof. S. N. Dixit, Gorakhpur University, Gorakhpur.

Research Projects :

The following research projects as per details given below are in progress.

Title of the project	Sponsoring agency	Principal investigator	Co-investigator
(1)	(2)	(3)	(4)
1. Ecosystem function of the pine forests of Meghalaya.	UGC	Prof. P. S. Ramkrishnan	Prof. R. R. Mishra, J. R. B. Alfred (Zoology)
2. Survey of medicinal Flora with emphasis on solasodine yielding solanums.	CSIR	do	Dr. Y. S. Chauhan Dr. R. R. Rao
3. Ecological implications of jhum cultivation on the ecosystem functions of subtropical humid forest stands.	DST	do	Prof. R.B. Mishra Prof. G.S. Aurora (Sociology) Prof. R. G. Michael (Zoology) Dr. R.S. Tripathi
4. Ecological adaptations & distribution of important tree species of the north-east India.	DST	do	Dr. J.R.B. Alfred (Zoology)
5. Biological productivity of aquatic ecosystem of the hill regions of N. E. India.	UGC	Prof. R. G Michael (Zoology)	Prof. R. R. Mishra Dr. J. R. B. Alfred (Zoology)

- | | | | |
|--|-------------------|------------------------------|-------------------|
| 1. Survey of vegetation & flora fungal & insect pathogens and wild mammals of | Forest Department | Prof. R.G. Michael (Zoology) | Prof. R.R. Mishra |
| Balphakram forest of Garo Hills, Meghalaya | | | |
| 7. Ecological investigations of edaphic microbial communities of N. E. Region in relation to different agricultural practices. | CSIR | Prof. R. R. Mishra | — |

Student activity :

The Botany Club was inaugurated by Dr. A. K. Dhan, Vice-Chancellor, NEHU, on 18.10.1979.

Under the auspices of the Botany Club a botanical excursion to Garo Hills was organised during October 1979. Besides studying the natural vegetation of these areas, the party collected a large number of plants for the Department. The party was lead by Dr. R. R. Rao, Mr. G. D. Sharma and Mr. Jasbir Singh, The Party consisted of both M. Sc Previous and Final students. Another excursion was organised to Zero point near Barapani. In this trip both Research Scholars and M. Sc. students took part.

A competition on "General knowledge of Botany" was organised for the students under the auspices of Botany Club. Besides, an extempore talk competition was held. Both M. Sc and Ph. D. students participated in these competitions. Several Seminars were also given by the M. Sc. and Ph. D. students.

Collaboration with other University/Department/outside agencies :

Although the Department emphasises discipline oriented studies in keeping with the modern concepts in biology,

about 40% of the entire courses in Botany are taught in an integrated mode jointly by the Departments of Zoology and Botany. Thus at the M. Sc. level the students are given training both in botanical studies and in areas of inter-disciplinary nature to ensure that while learning botany, they also develop some appreciation for inter-disciplinary approach study.

Some of the research projects are inter-disciplinary nature. Collaboration with the Zoology and Sociology Departments of this University may be particularly mentioned in this connection. Consultative collaboration also exists with the Indian Council of Agricultural Research Complex, Shillong, Botanical Survey of India, Shillong, Forest Department, Government of Meghalaya, Forest Training College, Burnihat and Regional Research Laboratory, Jorhat on research problems related to jhum, forest ecology, weed biology, taxonomy and studies on medicinal plants.

APPENDIX XI

Department of Physics

List of Faculty members:

	Name	Specialization
Professor	1. Dr. K.K. Gupta	Many-body Problem Nuclear Structure (Theory)
Readers (Head)	2. Dr. Y.S.T. Rao	Many-body Problem. Nuclear Structure (Theory)
	3. Dr. Y.S.S. Shinshodia (on leave)	Position Physics and Nuclear Instrumentation (Experimental)
	4. Dr. A.L. Verma	Laser Physics Resonance Floorescence and Raman Scattering, Solid State Physics (Experimental)

- 5. Dr. P. Shukla** : **Condensed Matter Theory and Phase Transitions (Theory)**
- Lecturers** **6. Dr. R. Singh** : **Nuclear Reactions (Experimental)**
- 7. Dr. S. Singh** : **Condensed Matter Theory and Phase Transitions (Theory)**
- 8. Dr. Y.S. Jain** : **Resonance Florescence and Raman Scattering, Solid State Physics, (Experimental)**
- 9. Mr. D.T. Khathing** : **Neutron Activation Analysis (Experimental)**
- 10. Dr. P.N. Pandita** : **Particle Physics (Unified Theories), (Theory)**

The U.G.C. has sanctioned funds for the following projects :

- (a) Dr. P. Shukla : Study of Spin-Glasses.
- (b) Dr. R. Singh : Study of the fluctuations Heavy Ion Reactions.
- (c) Dr. D.T. Khathing : Application of Pattern Recognition Techniques to Environmental and Seismological Studies.
- (d) Dr. P.N. Pandita : Asymptotic Behaviour in Field Theory.

Dr. P. Shukla was an invited visitor of the Institute of Physics, Bhubaneswar (November 1979) and gave lectures on magnetism in disordered systems.

Dr. Raghuvir Singh visited the Tandem Van de Graff Laboratory, Sektion Physik, University of Munich from December 1979 to February 1980 and participated in the measurements on $^{14}\text{C} + ^{14}\text{C}$ system, and completed the remaining part of the $^{12}\text{C} + ^{16}\text{C}$ and $^{12}\text{C} + ^{12}\text{C}$ system. Work was undertaken as an Alexander von Humboldt fellow (upto May 1979).

Dr. Y.S. Jain was an invited visitor of the Department of Physics, I.T.T., Kanpur during January 1980.

Dr. D.T. Khathing is continuing work on elemental analysis of coal and ore samples, supplied by the Directorate of Mineral Resources, Govt. of Meghalaya. Dr. Khathing also did Chromium analysis for ore samples supplied by the Directorate of Geology and Mining, Nagaland.

Dr. D.T. Khathing is participating in Remedial Course (Started March 1980) for tribal students.

Research Activities

1. Dr. A.L. Verma, I.I.T., Kanpur, NRCC, Ottawa and University of Amsterdam.
2. Dr. P. Shukla, University of Oxford and University of Illinois, Disordered Systems and Amorphous Materials.
3. Dr. Raghuvir Singh, University of Munich, Heavy Ion Reactions.
4. Dr. Surjit Singh, TIFR, Bombay and Max-Planck Institute for Festkörperforschung, ferroelectric Phase Transitions.
5. Dr. D.T. Khathing, Chemistry, NEHU and Bose Institute Calcutta, Trace Element Analysis.
6. Dr. Y.S. Jain, I.I.T., Kanpur.

APPENDIX XII

Department of Chemistry

List of faculty members

		Area of Research
Professors :	1. H. Junjappa, Dean, School Physical Sci- ences.	Synthetic Organic Chemis- try, Molecular rearrange- ments and Reactive Interme- diates.
	2. T.S.B. Nara- saraju, Head of the Depart- ment.	Studies on : (i) Insomorphous Substitutions (ii) Solid So- lution Formation among Iso- morpous Crystals ; their Characterization and Disso- lution Phenomena.
Readers :	1. J. Subrama- niam.	(i) Theoretical Calculations of Metalations on Metallo- porphyrins, using SCF Per- turbation Theory (ii) EST and Electrochemical Studies on Metalloporphyrins.
	2. H. Ila	Synthetic and Mechanistic Organic Chemistry.
	3. S. N. Bhat	Studies on (i) Charge trans- fer Complexes of Biologically Importance systems ; and (ii) Electrical and optical Properties of Organic Semi- conductors.
	4. M. K. Chaudhuri	(i) Synthesis of Fluoro and other Complexes of Transi- tion Metals in their Lower

Lecturers 1. M.K. Mahanti

Oxidation States ; (ii) Analysis of coal in the N. E. Region ; (iii) Mass spectrometric Studies on Organometallics.

(i) Kinetics of Electron Transfer Reactions, with particular emphasis on the Oxidation of Organic Substrates by one Electron Oxidants ; (ii) Molecular Orbital Calculations on Organic Molecules with emphasis on Correlation between Structure and Reactivity.

2. R.K. Poddar

Studies on Ni (0), Ni (II) and Ni (III) Complexes with Tertiary Phosphines Arsines and other Ligands.

3. K- Ismail

Theoretical and Experimental Studies of the Transport Properties of Liquids and Electrolytic Systems.

4. M.P. Mahajan

(i) Generation and study of 1,3 Dipolar Species ; (ii) Transformations in Heterocyclic System.

5. P.N. Pandey

(i) Dehalogenation of Aromatic Halides ;
(ii) Oxidative Generation of Carbocations.

Details of the Project Work undertaken by the M.Sc. Students of 1979-80

	Supervisor	Title of the Project
1. Miss. M. Bhatta, charjee	Dr. M.K. Mahanti	Kinetics and Mechanisms of Reduction of Ferricyanide by Sodium borohydride.
2. Mr.D. Mushahary	Prof. H. Junjappa & Dr. H.Ila	(i) Reactions of Ketone S, S,-Acetals with Dimethylacetylene dicarboxylate. (ii) Studies of Phase-transfer Catalysed two-phase Reactions.
3. Mr. R.C.Bor- thakur	Prof. P. Junjappa & Dr. H. Ila	Preparation & Oxidation of Polarised Keten S. Nacetals with lead tetracetate.
4. Mr. M.N. Mazumdar	Dr. M.P. Mahajan	Synthesis of Substituted Thiazoles and Attempted Generation and Trapping of 1,3-Dipolar Iminoazene.
5. Mr. S. Chatterjee	Dr. M.P. Pandey	Unconventional Routes to Thiocubanes.
6. Mr. D. Gurung	Dr. K. Ismail	On the Concentration Dependence of Viscosity in the Region Dilute to Hydrate Malt Ca (NO ₃) ₂ H ₂
7. Mr. S.K. Ghosh	Dr. M.K. Choudhuri	Studies on Halogeno and Oxyhalogenovanadates V (III) and (II).

- | | | |
|--------------------------|-------------------------------|--|
| 8. Mr. S. Purkhayastha | Dr. R.K. Poddar | Reactions of $NiX_2(pph_3)_2$ with Nitrosyl Chloride. |
| 9. Mr. A.K. Deb | —do— | Reactions of $NiX_2(pph_3)_2$ with Nitric Oxide and Carbonyl Sulphide. |
| 10. Mr. S.N. Chakraborty | Dr. M.K. Mahanti | Kinetics and Mechanism of Oxidation of Benzion by Alkaline Ferrocyanide. |
| 11. Mr. O.N.K. Singh | Prof. H. Junjappa & Dr. H Ila | Experiment in Advance Laboratory Course. |
| 12. Mr. A Kathipri | Dr. M. K. Chaudhuri | Novel Syntheses of Pentafluoro and tetrafluoromanganates (III). |

Positioning of Ex-Students

- | | |
|--------------------------|---|
| 1. Miss M. Bhattacharjee | Jr. Research Fellow, Department Chemistry, NEHU. |
| 2. Mr. D. Mushahari | Jr. Research Fellow, Department of Chemistry, NEHU. |
| 3. Mr. R.C. Borthakur | Research Fellow, Department of Chemistry, NEHU. |
| 4. Mr. S.N. Majumdar | Lecturer, St. Edmund's College, Shillong. |
| 5. Mr. S. Chatterjee | Ph. D. student, Michigan State University, U.S.A. |
| 6. Mr. S.K. Ghosh | Applicant for a JRF of DAF/CSIR. |
| 7. Mr. S. Purkhayastha | Lecturer, St. Edmund's College, Shillong. |
| 8. Mr. S.N. Chakravorty | State Bank of India, Shillong. |

9. Mr. O.N.K. Singh

Lecturer in a College in
Manipur.**Names of the Ph.D. Students and their Supervisors****Supervisors**

Dr. Arvind Kumar

Dr. H. Junjappa

Mr. P.V.R. Rao

Dr. T.S.B. Narasaraju

Mr. S. Gupta

—do—

Mr. B. Chakravarty

Dr. J. Subramanian

Mr. R.C. Borthakur

Dr. (Mrs.) H.lla

Mr. A. Rahman

—do—

Dr. (Mrs.) A. Varshney

Dr. S.N. Bhat

Mr. V. Shedvalkar

—do—

Miss B. Bhattacharjee

—do—

Mr. M.N. Bhattacharjee

Dr. M.K. Choudhuri

Dr. H.S. Dasgupta (Part time)

—do—

Mr. N. Roy

—do—

Miss M. Bhattacharjee

Dr. K. Mahanti

Mr. A. K. Bhattacharjee

—do—

Mr. K. P. Sharma

Dr. R. K. Poddar

Mr. S. Mohiuddin

Dr. K. Ismail

Mr. A. Deb Roy

Dr. M. P. Mahajan

Mr. M. L. Purkayastha

Dr. P. N. Pandey

Collaboration :

Dr. M. K. Choudhuri and Dr. D. T. Khathing of the Physics Department are collectively analysing some of the ores and minerals obtained from the state of Meghalaya and from Directorate, Geology and Mining, Government of Nagaland.

APPENDIX XIV
Department of Mathematics

List of faculty members :

Specialisation

- Readers :** 1. Dr. P. Jothilingam, Algebra and Number Theory.
2. Dr. S. S. Khare. Algebraic and Differential topology.

- Lecturers :** 1. Mr. B.K. Dev Sarma. Fluid Mechanics.
2. Mr. S.L. Marbaniang Operations Research.
3. Mr. P.K. Saikia
(on study leave)
4. Dr. M. B. Rege. Ring Theory.
5. Mr. H K. Mukherjee. Algebraic and Differential Topology.
6. Mr. S. Ramasubramaniam. Probability Theory.

Visiting Professor :

Prof. S. S. Abhyankar, Head of the Department of Mathematics, Pune University, visited the Department in October 1979. He lectured the students on Algebraic Geometry.

Positioning of ex-students :

1. Mr. Watisangba Ao, Lecturer, Kohima Science College.
2. Mr. P. S. Marpna, Lecturer, Sankardev College, Shillong.
3. Miss Y. M. Nongsiej, Teacher, H. S. Nongstoin.
4. Mr. B. N. Lamare, Lecturer, Jowai Govt. College.
5. Mr. D. Bhattacharjee, Lecturer, College of Agriculture, Nagaland.
6. Miss S. P. Chaudhury, Lecturer, Govt. College, Tura.
7. Mr. P. Rajkhowa, Doing Research for Ph. D.

8. Mr. B. S. Ray, Junior Engineer, Microwave, Shillong.
9. Mr. J. Gohain, P. O. Indian Overseas Bank, Gauhati.
10. Miss Anjana Das, Lecturer, Jail Road High School.

Self-Assessment :

The Department has made sincere effort to fulfil the objectives of the University by raising the academic and intellectual standards of the students of the Region. The Department received numerous requests for admission to the courses. This is a welcome trend that students of the Region are more and more attracted towards the study of Mathematics.

APPENDIX XV

College of Agriculture (Medziphema)

List of faculty members

	Name	Specialisation
Principal :	Dr. M.C. Pandey	Plant Pathology.
Readers :	1. Dr. H.R. Kataria	Mycology & Plant Pathology.
	2. Dr. D.N. Upadhayay	Mycology and Plant Pathology.
Lecturers :	1. Dr. R.C. Gupta	Chemistry.
	2. Dr. P.M. Reddy	Botany.
	3. Mr. M.V. Reddy	Zoology
	4. Mr. D. Bhattacharjee	Mathematics.
	5. Mr. R.C. Laloo	Botany.
	6. Mr. A.S. Mallick	Plant Breeding.
	7. Mr. R.S. Thakur	English.
	8. Mr. A K. Kundu	Librarian.

Visitors

The following persons visited the college during the year.

1. D.T. Lakdawala. Deputy Chairman, Planning Commission.
2. Mr. H.N. Haldipur, Lt. Governor, Arunachal Pradesh.
3. Mr. Gagong Apang, Chief Minister, Arunachal Pradesh.
4. The Members of the Executive Council, NEHU.

Library

At present the college has approximately 1200 books comprising mainly text books and books on allied subjects. The break up is as follows.

Text-Books (prescribed)	400. Nos.
Subject Books	650. Nos.
Reference Books	1500. Nos.
Periodicals	60. Nos.
Magazines	10. Nos.
Newspapers	18. Nos.
Information Bulletins (Govt. publications).	5. Nos.

APPENDIX XVI

Library System

Acquisition Section

The Acquisition Section has been procuring books for the entire system of North-Eastern Hill University including Nagaland and Mizoram,

Efforts are being made for building up a complete and balanced collection so as to meet the needs and demands of students and teachers alike. Following steps have been taken in this respect.

The library has received a number of publications from the State Governments of this area in response to the request made by the Central Library.

Processing Section

The Section is chiefly concerned with the processing of books for effective use.

Centralised Processing

With the exception of Agricultural college at Medziphema, which is now having one Assistant Librarian, the Central Library is responsible for the processing of books for the entire Library system of North-Eastern Hill University.

To provide in-service training to junior staff who have recently received Library Certificate Training and also to increase the output of processed books, the section is availing their services in processing books during the summer and winter vacation when there is less pressure of work at service points.

The Circulation Section is directly dealing with readers. Therefore, all efforts have been made to improve its services.

Consultation System

Through this, a provision is made by which recommended outsiders are allowed to consult books and periodical within the library for a specific period of time. During this year about 55 persons have been benefited through this system.

Stock-Taking

The work of stock-taking by physical verification was undertaken for the first time during the month of January to February, 1979 and completed in September 1979. The report of the stock-taking is as follows :

(i) Total number of books upto Dec, 1, 1978.	—	74,150 volumes
(ii) Total number of books lost	—	3,788.
(iii) Amount of cost involved	Rs.	2,12,323.83
(iv) Total number of bound periodicals upto 1st. December 1978.	—	9113
Amount of cost involved		Rs. 9,825.00

Data Bank

The year about 400 numbers of statistical publications have been added to this collection.

Documentation Section

The Documentation section was started in August, 1979 with the appointment of one Documentation Officer. Within the short period, the section has made valuable contribution has made valuable contribution in providing documentation service to both teachers and research scholars.

Bindary

The University proposes to establish well equipped bindary section in order to cater to the need of the whole University and to start with one binder has been appointed.

Statement of Journals ordered to different Suppliers for the Calendar year 1980.

ORDERED TO

Department	F.W. Faxon U.S.A.	Indian Publi- shers	Interna- tional Book House Bombay	Central News Agency N. Delhi	Allied Publi- shers Cal.	India Book House Subs Agency Bombay	Narosa Pub. Co. (For- New Delhi	Direct	Remarks
Botany	12	17	—	19	11	4	4	—	67
Chemistry	16	16	18	—	8	1	1	—	60
Contg. Education	2	2	—	1	—	—	—	—	5
Economics	29	25	—	33	3	1	—	3	94
Education	17+17	7	—	13	—	—	—	1	63
English	31	3	30	—	4	—	—	—	68
General	1	49	—	2	—	—	—	—	52
Geography	11	1	25	—	1	—	—	2	40
History	11	11	—	23	2	—	—	1	48
Lib. Sc.	4	4	—	6	—	—	—	—	11
Life Sc.	6	—	—	1	2	1	1	—	11
Mathematics	16	2	—	26	8	5	3	—	60
Philosophy	19	2	15	—	4	—	—	—	40

Physics	16	3	22	—	11	3	2	—	57
Pol. Science	41	26	—	32	7	—	—	—	106
Medical	1	—	—	1	—	—	—	—	2
Sociology	13	13	—	9	4	—	—	—	39
Zoology	13	12	—	20	7	4	—	—	56
ICSSR (NERC)	—	—	—	—	—	—	—	—	14
Shastri Indo	—	—	—	—	—	—	—	—	11
Canada	—	—	—	—	—	—	—	—	20
Gratis	—	—	—	—	—	—	—	—	—
Total	276	190	119	186	72	19	11	7	924

APPENDIX XVII

College Development Council

Short reports of the affiliated Colleges :

1. St Edmund's College was established in 1924.

Courses / Subjects taught.

- | | |
|-----------------------|---|
| 1. P. U. C. Arts : | English, Assamese, Khasi, Bengali Mizo, Nepali, Hindi, Geography, History, Political Science, Economics, Mathematics. |
| 2. P. U. C. Science : | English, Assamese, Khasi, Bengali Mizo, Nepali, Hindi, Geography, Chemistry, Physics, Mathematics, Biology, Botany,. |
| 3. B. A. | (Pass & Honours) English, History, Economics, Political Science, (Pass Course) Geography, Assamese, Khasi, Bengali, Mizo, Hindi Nepali. |
| 4. B. Sc. | (Pass & Honours) Chemistry, Physics, Mathematics, Botany, Zoology (Pass Course) Geography. |

Number of Teachers doing Research for M. Phil Ph. D. :—
Five (5) teachers are doing research for M. Phil and three are doing research for Ph. D.

Games and Sports were organised by the Games & Sports Committee. The College debates were organised by the Debating Society. Students took active part in NCC&NSS Activities.

2. St. Anthony's College :

The College was established in 1934.

Courses/Subjects taught :

1. P.U.C. Arts : English, Latin, Assamese, Bengali, Khasi, Hindi, Mizo, Nepali, Alternative English, History, Economics, Political Science, Logic, Mathematics and Statistics.
2. P. U. Science : English, Assamese, Bengali, Khasi, Hindi, Nepali, Alternative English, Mathematics, Physics, Chemistry, Botany, Zoology, Biology, Statistics and Additional Mathematics.
3. P. U. Commerce : English, Assamese, Bengali, Khasi, Hindi, Mizo, Nepali, Alternative English, Economics, Book-Keeping, Business Methods, Commercial Arithmetic, Commercial Geography and Secretarial Practice.
4. B. A. (Pass & Honours) English, History, Economics, Political Science, Khasi, (Pass Course) Philosophy, Mathematics, Assamese, Bengali, Hindi, Mizo, Nepali and Alternative English.
5. B. Sc. (Pass & Honours) Mathematics, Physics, Chemistry, Botany, Zoology, Economics, Statistics, (Pass Course) English.
6. B. Com. (Honours) Advanced Accountancy & Auditing. (Pass Course) English, Principles of Economics, M.E.D. Statistics, Commercial Geography, Accountancy, Business Organisation, Commercial Law, Assamese, Bengali, Khasi, Hindi, Mizo, Nepali, Alternative English.

The College received Rs. 14,000/- only under the FIP.

Four teachers are doing research for M.Phil and Ph. D.

Three NCC Cadets attended Advance Leadership Training with Rock Climbing at Pachamary in June, 1980. One Cadet was adjudged as the 'best Boxer' in the Competition. Games and Sports were organised on inter-class basis. Debates, Dramas, Music, Elecution, Essay and extempore Speeches were also held.

The N.S.S. of NEHU conducted a joint camp with the College during the holidays. College construction work is in Progress.

Lady Keano Girls' College was established in 1935.
Courses/Subjects taught.

- | | |
|---------------------------|---|
| 1. P.U. Arts | English, Assamese, Bengali, Khasi, |
| 2. P.U. (Science) | Nepali, Hindi, Mizo, Political Science, |
| 3. B.A. (Pass & Honours) | Economics, Logic, Sanskrit, Philosophy, |
| 4. B. Sc (Pass & Hocours) | Chemistry, Botany, Zoology and Mathematics. |

Achievements of the College

- (i) The College secured the 2nd Position of PUC Final Examination.
- (ii) The College secured first Class first position in Chemistry (Honours), Physics (Hons) and Sanskrit (Hons) in the Degree Examinations
- (iii) The College secured Championship in the Inter-Collegiate Sports Meet.
- (iv) The College team snatched away prizes in the Debate Competition organised by the Rotary Club, Shillong.

Union Christian College, Barapani was established in 1952.

It is residential and Co-educational institution. Students are mostly drawn from rural and backward areas.

Courses/Subjects taught ;

B.A. Course. (Pass & Honours) English and History.
(Pass Course) English, Political Science.
Economics, Geography, Logic, Philosophy.
History. Khasi, Mizo, Assamese and
Alternative English.

One teacher is doing Research for M Phil & three are doing research for Ph.D.

Shillong College was established in 1956

Courses/Subjects taught :

The College conducted 2 (two) shifts. Arts, Science & Commerce are taught in the Day shift and Arts & Commerce are taught in the Evening shift. The college opened Honours Courses in Botany, Zoology and Khasi. It is a Co-Educational institution.

Tura Government College was established in 1958

It provided two shifts.

Courses/Subjects taught

- (1) PUC Arts & Science
- (2) B.A. and (3) B.Sc.
- (1) PUC Arts —English, Garo, Assamese, Bengali,
Alternative, English, Economics,
Political Science, History, Logic,
Book-keeping & Commercial Arith-
matic, Education. Geography and
Mathematics.

- (2) P.U. Science —English, Garo, Assamese, Bengali, Alternative English, Physics, Chemistry, Biology, Mathematics, and Geography.
- (3) B.A. —(Pass & Honours) English, Economics, Political Science, History, Philosophy. (Pass) Education, Garo, Assamese, Bengali and Alternative English.
- (4) B.Sc, —English, Physics, Chemistry, Botany, Zoology and Mathematics.

The College received Rs. 7,000/-from the UGC for construction of College Play Ground. Five teachers are doing Research for Ph.D. The College conducted Social works in some villages by the N.S.S. Unit

STATISTICS

Analysis of Examination

Final LL.B.

Name of College	Name of Examination	APPEARED					
		General		S. T. S.		C.	
		M.	F.	M.	F.	M.	F.
Total							
		M.	F.	M.	F.	M.	F.
SHILLONG LAW COLLEGE	LL.B (Feb. 1980)	19	3	15	3	34	6
TOTAL :-		19	3	15	3	34	6
TURA LAW COLLEGE	LL.B (Feb. 1980)	1				1	
TOTAL :-		20	3	15	3	35	6

Results : 1980
 February : 1980

Number of passed

Genl.			Sch. Tribe.						Sch. Caste								
I		II		Total		I		II		Total		I		II		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
		6		6			2			2							
		6		6			2			2							
		6		6			2			2							

**Analysis of Degree
B. Ed.**

Name of College	Name of Examination	Appeared									
		Genl		ST		SC		TOTAL			
		M	F	M	F	M	F	M	F		
Mizoram Instt. of Ed. Nagaland	B. Ed	5	1	56	10					61	11
College of Ed	B. Ed	33	14	27	4	1				61	18
St. Mary's College Shillong.	B. Ed	3	39	1	11					4	50
P.G.T.C.	B. Ed	157	44	17	18					174	62
TOTAL :		198	97	101	43	1				300	141

Number of Passed

S. Tribe

	I		II		SP		Total		Remark
	M	F	M	F	M	F	M	F	
	Mizoram Instt. of Ed. Nagaland College of Ed.	1	1	24	5	19	3	44	
St. Mary's College Shillong.			11	2	12	1	23	3	
P.G.T.C. Shillong		5	1	2		3	1	10	Dist. on 2 M
Total	1	7	40	15	35	11	76	33	

P.U. Science Results
College wise

Name of the College	Regular Appeared						Total	
	General		S. Tribe		S. Caste		Apprd.	
	M	F	M	F	M	F	M	F
St. Anthony's	148		127				275	
St. Edmund's	103		40		1		144	
St. Mary's		23		21				44
Sankardev	60	2	67	10	5		122	12
Jowai	1	10	9				10	10
Tura	13	6	25	9			38	15
Shillong	35		25	5			60	5
Lady Keane		40		43				83
Total of Meghalaya	360	81	293	88	6		659	69
Pachhunga	1	1	68	11			69	12
Lungei			9				9	
Total of Mizoram	1	1	1	77	11		78	12
Science College	13	7	106	27			119	34
Total of Nagaland	13	7	106	27			119	34
Mizoram	1	1	77	11			78	12
Meghalaya	360	81	293	88	6		659	169
Grand Total :	374	89	476	126	6		856	275

Analysis 1980
State wise

General						Total	
M			F			M	F
I	II	III	I	II	III		
19	25	19				63	
30	52	10		7	13	92	21
1	13	1				15	
	1	1			3	2	3
	4	7				11	
				2	13	11	26
50	5	38	9	29	12	183	50
1	6	1			2	8	2
1	6	1			2	8	2
50	95	38	9	29	12	183	50
51	101	39	3	31	12	91	52

P.U..C Science

Regular Passed								
Name of the College	S. Tribe						Total	
	M			F			M	F
	I	II	III	I	II	III		
St. Anthony's	5	18	25				48	
St. Edmund's	6	21	6				33	
St. Mary's				3	11	2		16
Sankardev		2	15		1	2	17	3
Jowai		2			2		2	2
Tura		6	3		1	1	9	2
Shillong		2			4	1	2	5
Lady Keane					11	8		19
Total of Meghalaya	11	51	49	3	30	14	111	47
Pachhunga	1	10	10		3	2	21	5
Lunglei		1	2				1	2
Total of Mizoram	1	11	12		3	2	22	7
Kohima Science		13	21		4	4	34	8
Total of Nagaland		13	21		4	4	34	8
Mizoram	1	11	12		3	2	22	
Meghalaya	11	51	49	3	30	14	111	47
Grand Total :	12	75	82	3	37	20	167	62

Science

Regular Passed

I	S. Caste			F			Total	
	II	III		I	II	III	M	F

1

1

2

2

1

2

3

1

2

3

1

2

3

P.U.C. Science**Certain Subjects Appeared**

Name of the College	General		S. Tribe		S. Caste		Total	
	M	F	M	F	M	F	M	F
St. Anthony's	11		10				21	
St. Edmund's	3		6				9	
St. Mary's								
Sankardev	3		8				11	
Jowai				3				3
Tura	2	2					2	2
Shillong	4			2			4	2
Lady Keane		4		3				7
Total of Meghalaya	23	6	24	8			47	14
Pachhunga			3				3	
Lunglei			1				1	
Total of Mizoram			4				4	
Kohima Science								
Kohima	3	2	37	3			40	5
Total of Nagaland	3	2	37	3			40	5
Nagaland	3	2	37	3			40	5
Mizoram			4				4	
Meghalaya	23	6	24	8			47	14
Grand Total :	26	8	65	11			91	19

Certain Subjects							Remarks
General		S.T.		S. Caste		Total	OBC-NIL
M	F	M	F	M	F	M	
7		3				10	
2		6				8	
2		1				2	1
			2				2
	2						2
3			1			3	1
	4		3				7
14	6	10	6			23	13
		2				2	OBC-NIL
		1				1	
		3				3	
1	2	22	2			23	4
1	2	22	2			23	4
1		22	2			23	4
1	2	22	2			23	4
		3				3	
14	6	10	6			23	13
15	8	35	8			49	17

Analysis of Pre-University

Name of the College	Regular Appeared								General		
	General		S. Tribe		S. Caste		Total		Male		
	M	F	M	F	M	F	M	F	I	II	III
St. Anthony's	67		42				109		3	16	16
Shillong	104		45	16			150	16	1	6	29
MEGHALAYA	171		88	16			259	16	4	22	45
Dimapur	49	1	36				85	1		4	13
NAGALAND	49	1	36				85	1		4	13
Meghalaya	171		88	16			259	16	4	22	45
Nagaland	49	1	36				85	1		4	13
Grand Total :	220	1	124	16			344	17	4	26	58

(Commerce) Results : 1930

Regular Passed											
S. Tribe											
Female			Total		Male			Female			
I	II	III	M	F	I	II	III	I	II	III	Total
			35		1	5	20				26
			36				12		4	6	12 10
			71		1	5	32		4	6	38 10
			17								
			17								
			71		1	5	32		4	6	38 10
			17								
			83		1	5	32		4	6	38 10

Analysis of Pre-University.

Name of the College	M		S. Caste		F	
	I	II	III	I	II	III
St. Anthony's Shillong						
Meghalaya Dimapur						
Nagaland Meghalaya Nagaland						
Grand Total :						

(Commerce) Results : 1980

College wise

State wise

Certain subject appeared.

Passed

College wise								State wise							
Certain subject appeared.								Passed							
General		S.T.		S.C.		Total		General.		S.T.		S.C.		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
19		7				26		19		6				25	
26		24	3			50	3	10		12	2			22	2
45		31	3			76	3	29		18	2			47	2
34	2	33				67	2	21	1	13				34	1
34	2	33				67	2	21		13				34	1
45		31	3			76	3	29		18	2			47	2
34	2	33				67	2	21	1	13				34	1
79	2	64	3			143	5	50	1	31	2			81	3

**Analysis of P.U. (Arts).
College wise.**

Name of the College	Regular Appeared								Regular General Male.		
	Genl.		S.T.		S.C.		Total		I	II	III
	M	F	M	F	M	F	M	F			
St. Anthony's	126		157				283		22	63	15
St. Edmund's	15		81				96		3	6	5
St. Mary's		63		89				152			
Sankardev	35	46	40	86	8	6	83	138			14
Synod	18	3	162	216	4	4	184	223		3	1
Sengkhasi	8	2	20	20			28	22		2	10
U.C.C.	19	6	19	8			38	14	1	2	13
Jowai		1	47	48			47	49			
Tura	49	36	78	61			127	97	1	2	11
Mendipathar	1		36	4			37	4			
Shillong	65	79	54	58			119	137		2	17
Lady Keane		135		229				364			
Meghalaya											
Total :-	336	369	694	819	12	10	1042	1200	27	80	86
Patkai			40	21	1		41	21			
Fazl Ali			84	56			84	56			
Mt. Tiyi	6	1	36	3			42	4			
Kohima	9	6	160	62			169	68		2	2
Tuensang	4	3	23	4			27	7		3	
Dimapur	8	35	57	24			65	59		2	1
Nagaland											
Total :-	27	45	400	170	1		428	215		7	3

Results of 198J
State wise

PASSED FEMALE				SCH. TRIBE MALE			FEMALE			TOTAL			
I	II	III	Total	M	F	I	II	III	I	II	III	M	F
			100			3	22	58					83
			14			3	26	41					70
17	25	16		58					2	32	37		71
	1	5	14	6			6	16			2	22	2
		1	4	1			9	2		11	38	38	49
	4	5	12	9			4	10		2	5	14	7
	1	2	16	3			6	11	1	2	4	17	7
		1		1				11			17	11	17
	1	12	14	13			2	18		6	20	20	26
								3				3	
	1	12	19	13			1	10		1	12	11	13
3	14	44		61					1	22	60		83

20 47 98 193 165 6 76 207 4 76 195 289 275

						1	23	11		18	3	35	21
								16			16	16	19
	1			1				7				7	
1	1		4	2			3	42	1	1	14	45	16
		1	3	1				8			2	8	
	2	12	3	14			1	13			8	14	8

1 4 13 10 18 1 27 97 1 19 46 125 66

Analysis of P. U. (Arts) Results of 1980.

Name of the College	SCH. CASTE						TOTAL	
	MALE			FEMALE			M	F
	I	II	III	I	II	III		
St. Anthony's								
St. Edmund's								
St. Mary's								
Sankardev			3				3	
Synod			1				1	
Sengkhasi								
U.C.C.								
Jowai								
Tura								
Mendipatnar								
Shillong								
Lady Keans								
Meghalaya Total :			4				4	
Patkai			1				1	
Fazl Ali								
MT. Tlyi								
Kohima								
Tuensang								
Dimapur								
Nagaland Total :-			1				1	

College wise : State wise

CERTAIN SUBJ AFFLARED								CERTAIN SUBJS PASSED							
Cenl.		Si.T.		S.Ci		To.al		Genl.		S.T.		S.C.		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
4		9				13		2		6				8	
1		1				2		1		1				3	
		1	6			7				5				5	
8	9	3	2			11	11	1		4				5	
2	1	50	78	1	1	53	80			5	12			5	12
1	2	4	2			5	4	1	2	2	1			3	3
		1				1				1				1	
		10	7			10	7			6	2			6	2
9	4	20	7			29	11		2	8	4			8	6
3	2	19	3			22	5	1						1	
3	19	4	1			7	20		6	2				2	6
	16		7			23			8	3					11
31	54	121	113	1	1	153	168	6	18	35	27			41	45
		2				2				1				1	
		123	68			123	68			30	16			30	16
		8	4			8	4			4	3			4	3
3	2	86	17			89	19	1		22	7			23	7
		17				17				3				3	
4	9	30	10			34	19	3	4	10	3			13	7
7	11	266	99			273	110	4	4	70	29			74	33

Analysis of P. U.
Mizoram

Name of the College	Regular		Appeared				Total	
	General M	F	S. Tribe M	F	S. Caste M	F	M	F
Saiha College			21	6			21	6
Pachhunga		1	109	55			109	56
Aizawl	7		500	211			507	211
Kolasib			63	22			63	22
Lunglei			67	18			67	18
Serchhip			33	5			33	5
Champhai			61	23			61	23
Mizoram Total :	7	1	854	340			861	341
Meghalaya	336	369	694	819	12	10	1042	1200
Nagaland	27	45	400	170	1		428	215
Mizoram	7	1	854	340			861	341
Total of the Three	370	415	1948	329	13	10	2331	1756

(Arts) Results : 1939
Colleges

I	General		Regular Passed			Total	
	Male II	III	I	Female II	III	M	F
				1			1
	1	2				3	
	1	2		1		3	1
27	80	86	20	47	98	193	165
	7	3	1	4	13	10	18
	1	2		1		3	1
27	88	91	21	52	111	206	184

Mizoram

Name of the College	Scheduled Tribe							Total F
	I	M II	III	I	F II	III	M	
Saiha		4	4				8	
Pachhunga		14	48	1	13	25	62	39
Aizawl	1	36	135		8	61	172	69
Kolasib		4	17		3	5	21	8
Lunglei		9	22		5	6	31	11
Serchhip		6	12			2	18	2
Champhai	1		31	1		7	32	8
Mizoram Total :	2	73	269	2	29	106	344	137
Meghalaya	6	76	207	4	76	195	289	275
Nagaland	1	27	97	1	19	46	125	66
Mizoram	2	73	269	2	29	106	344	137
Total of the three	9	176	573	7	124	347	750	478

Colleges

I	M II	III	Scheduled Caste			Total	
			I	F II	III	M	F
		4				4	
		1				1	
		5				5	

**Analysis of P.U.
Mizoram**

Name of the College	Certain Subjs.		Appeared.		S. Caste		Total			
	General M	F	S. Tribe M	F	M	F	M	F		
Saiha										
Pachhunga			51	11			51	11		
Aizawl			91	36			91	36		
Kolasib										
Lunglei			34	3			34	3		
Serchhip			2				2			
Champhai			19	6			19	6		
Total of Mizoram			197	56			197	56		
Meghalaya	31	54	121	113	1	1	153	168		
Nagaland	7	11	143	154	68		273	110		
Mizoram			197	56			197	56		
Total of the Three			38	65	461	323	69	1	623	334

(Arts) Results 1980
Colleges

Genl.		Certain Subjs. Passed				Total		Remarks
M	F	S. Tribe		S. Caste		M	F	
		M	F	M	F	M	F	
		22	6			22	6	No. OBC
		51	20			51	20	„
								„
		0				10		„
								„
		9	2			9	2	„
		92	28			92	28	
6	18	35	27			41	45	
4	4	70	29			74	33	
		92	28			92	28	
10	22	197	84			207	106	

**Analysis of B.Sc.
College wise**

Name of the College	Schedule Casts								Total	
	Male				Female				M	F
	D	I	II	SP	D	I	II	SP		
St. Edmund's										
St. Anthony's										
St. Mary's										
Shillong										
Lady Keane										
Tura Govt.										
Grand Total Meghalaya										
Science College Kohima										
Pacchungu										
Total of the Three States										
St. Mary's College.										

Results Analysis of

Results of 1980
State wise

Certain Subjects Appeared								Certain Subjects Passed							
Genl.		S.T.		SC.		Total		Genl.		ST.		SC.		Total.	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
7		2				9		5						5	
5		3				8		4		3				7	
	1		2			1	2		1						1
	1						1		1						1
12	2	5	2			18	3	9	2	3				12	2
1		4				5		1		1				2	
		1				1									
13	2	10	2			24	3	10	2	4				14	2
B.Sc. (Home Sc.)															

**Analysis of B.Sc.
College wise**

Name of the College	Regular Appeared.										Regular		
	Genl.		S. Tribe		S. Caste		Total			General			
	M	F	M	F	M	F	M	F	D	I	II	SP	
St. Edmund's	83		3				86				15	22	10
St. Anthony's	93		24				117				8	30	6
St. Mary's		2					2						
Shillong	16	3	3	2			19	5			1		4
Lady Keane		38		15			53						
Tura Govt.	4	1	1	1			5	2					2
G. Total Meghalaya	196	44	31	18			227	62			23	53	22
SC College Kohima	2		11				13				2		
Pachhunga			6	1			6	1					
Total of the Three States	198	44	48	19			246	63			25	53	22
											Results Analysis of		
St. Mary's College	3		3					6					2

Results of 1980
State wise

														Schedule Tribe			
Female				Total		Male				Female				Total			
D	I	II	SP	M	F	D	I	II	SP	D	I	II	SP	M	F		
					47												
					44		2	3	3					8			
				2	2												
				2	5	2									1		
4	11		8		23								5	2	7		
					2												
	4	11	12	98	27		2	3	3				5	3	8		
			1	1	2	2			2						2		
									4						4		
	4	12	13	100	29		2	3	9				5	3	14		

B. Sc. (Home Science)

	1	3		3		3		3
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**Analysis of
B. Com.**

Name of the College	General		Regular Appeared				Total	
	M	F	S. Tribe		M	S. Caste	M	F
Dimapur	18		18				36	
St. Anthony	65		23				88	
Shillong	40		35				75	
Grand Total	123		76				195	

Name of the College	S. Tribe Passed				Total	
	Male		SP	Female		M
	I	II		I	II	
Dimapur			1			1
St. Anthony			5			5
Shillong			5			5
Grand Total :			11			11

Name of the College	Certain subject appeared				Total	
	General		S.T.		M	F
	M	F	M	F		
Dimapur	7		6		13	
St. Anthony's	6		2		8	
Shillong	20	1	4	10	24	11
Grand Total :	33	1	12	10	45	11

**Examination Results
1980.**

F

		Male Dis.	Meneral Passed				Total		
I	II		SP	I	FeWale II	Dis.	SP	M	F
			2					2	
1	7		3					31	
	3		15					18	
1	10		40					51	

S. Caste Passed									
I	M II	Dis.	SP	I	II	F Dis.	SP	M	Total F

Genl.		Certain subjects passed				Total		Remarks
M	F	S.T.		S.C.		M	F	
		M	F	M	F			
3		2				5		No. OBC
3						3		"
6	1	1	6			7	7	"
12	1	3	6			15	7	

**Analysis of
College wise**

Name of the College	Regular Appered							
	General		S.	T.	S.	C.	Total	
	M	F	M	F	M	F	M	F
St. Anthonys'	61		107				168	
St. Edmunds'	27		75				103	
St. Mary's		60		75				135
Sankardev	70	21	24	4	1		95	25
Synod	9	6	78	88	3	6	90	100
Senghkhasi			21	14			21	14
U.C.C.	2	5	19	5			21	10
Lady Keane		98		133				231
Mendipathar :	2	1	7	1			9	2
Jowai Govt.			14	25			14	25
Tura Govt.	26	13	32	27	2	1	60	41
Meghalaya Colleges :	197	204	377	372	7	7	581	583
Pachhunga			77	18			77	18
Lunglei Govt.		1	34	2			34	3
Serchhip	4	2	14	5			18	7
Aizawl	9		191	57			200	57
Mizoram Colleges	13	3	316	82			329	85

B.A. Results : 1980
State wise

Regular Passed									
Male				General Female				Total	
D	I	II	SP	D	I	II	SP	M	F
		2	38					40	
		11	11					22	
					1	29	27		57
			25				1	25	1
			4					4	
					1	13	24		38
			2				1	2	1
		3	7				4	10	4
		16	87		2	42	57	103	101
							1		1
			4				2	4	2
		1	2					3	
		1	6				3	7	3

Analysis of

SCHEDULED TRIBE										
	Male				Female				Total	
	D	I	II	SP	D	I	II	SP	M	F
St. Anthony's			8	36					44	
St. Edmund's			19	34					53	
St. Mary's							23	23		46
Sankardev				15				1	15	1
Synod			1	7			2	22	8	24
Sengkhkhasi				2				5	2	5
U.C.C.			11	1			2		12	2
Lady Keane							3	39		42
Mendipathar :										
Jowai Govt.				3				9	3	9
Tura Govt.				7				3	7	3
Meghalaya Colleges			39	105			30	102	144	132
Pachhunga			9	30			3	6	39	9
Lunglei Govt.				8					8	
Serchhip				8				4	8	4
Aizawl.			13	61			2	14	74	16
Mizoram Colleges			22	107			5	24	129	29

B. A. Results : 1980

Schedule Casts									
Male				Female				Total	
D	I	II	SP	D	I	II	SP	M	F
		1							1
			1						1
			1				1	1	1
		1	2				1	3	1

**Analysis of
College wise**

Name of the College	Certain subjects appeared						Total	
	General		S	T.	S.	C	Total	
	M	F	M	F	M	F	M	F
St. Anthonys'			1				1	
St. Edmunds'	2		7				9	
St. Mary's		2		6				8
Sankardev	18	6	3	1			21	7
Synod	2		37	24	1	2	40	26
Sengkhasi	1		1	2			2	2
U.C.C.			3	1			3	1
Lady Keane		32		5				37
Mendipathar	1	1	3				4	1
Jowai Govt.		9	2				9	2
Tura Govt.	4	8	2	4	1	1	7	13
Meghalaya Colleges	28	49	66	45	2	3	96	97
Pachhunga			32	4			32	4
Lunglei Govt.			21	1			21	1
Serchhip								
Aizawl	1		47	21			48	21
Mizoram Colleges-	1		100	26			101	26

B.A. Results of 1980
State wise

Certain subjects passed.

General		S.	T.	S.	C.	Total	
M	F	M	F	M	F	M	F
		4				4	
8	2	2	3			10	5
	2		1				3
1		6	2	1		8	2
		3	1			3	1
	12		1				13
		1				1	
		4				4	
2	2		1	1		3	3
11	18	20	9	2		33	27
		12	2			12	2
		2				2	
		14	8			14	8
		28	10			28	10

**Analysis of B.A.
College wise**

Name of the College	General		Regular appeared					Total	
	M	F	M	S.T. F	M	S.C. F	M	F	
Tuensang		1	6	1			6	2	
Patkai Christian			11	2			11	2	
Fazl Ali			38	19			38	19	
Mount Tiyi	4		20	3			24	3	
Kohima	18	1	132	33			150	34	
Dimapur	9	14	43	7			52	21	
Nagaland College	31	16	250	65			281	81	

Name of the College	Male			Scheduled Tribe Female				M	Total	
	D	I	II	SP	D	I	II		SP	F
Tuensang										
Patkai Christian				8				2	8	2
Fazl Ali				13				7	13	7
Mount Tiyi										
Kohima			1	20				4	5	29
Dimapur				4				1	4	1
Nagaland College			1	53				4	15	54

Results of 1980
State wise

				Regular Passed General						Total
D	Male		SP	D	Female		SP	M	F	
	I	II			I	II				
			4					4		
		1	5				1	6		
			4				4	4	4	
		1	13				5	14	5	

				Scheduled Caste						Total
D	Male		SP	D	Female		SP	M	F	
	I	II			I	II				

Name of the College	Certain Subjects. Appeared								
	Genl.		ST.		SC.		Total		
	M	F	M	F	M	F	M	F	
Tuensang									
Patkai Christian									
Fazl Ali			84	38			84	38	
Mount Tiyi			2				2		
Kohima	8	2	45	1			53		3
Dimapur	3	3	9	4			12		7
Nagaland Colleges	11	5	140	43			151		48

B.A. Results : 1980

Genl.		Certain Subjects Passed				Total	
M	F	ST.		M	SC.	M	F
		M	F		F		
		16	14			16	14
		1				1	1
6	1	22				28	1
	1	2				2	1
6	2	41	14			47	16

**Grand Total of B.A.
State**

Name of the State	Regular Appeared							
	Genl.		S.T.		S.C.		Total	
	M	F	M	F	M	F	M	F
Meghalaya Colleges	197	204	377	372	7	7	581	583
Mizoram Colleges	13	3	316	82			329	85
Nagaland Colleges	31	16	250	65			281	81
Grand Total :-	241	223	943	519	7	7	1191	749

	Male		Scheduled Tribe				Female		Total	
	D	I	II	SP	D	I	II	SP	M	F
Meghalaya College :			39	105			30	102	144	132
Mizoram Colleges			22	107			5	24	129	29
Nagaland College			1	53			4	15	54	19
Grand Total :			62	265			39	14	327	180

	General		Certain Subjects Appeared				Total	
	M	F	S.T.		S.C.		M	F
			M	F	M	F		
Meghalaya Colleges	28	49	66	45	2	3	96	97
Mizoram Colleges	1		100	26			10	26
Nagaland Colleges	11	5	140	43			151	48
Grand Total :-	40	54	306	114	2	3	348	171

**Results of 1980
wise**

Regular Passed										
General				Female				Total		
Male										
D	I	II	SP	D	I	II	SP	M	F	
		16	87		2	42	57	103	131	
		1	6				3	7	3	
		1	13				5	14	5	
		18	106			2	42	65	124	139

Scheduled Caste									
Male				Female				Total	
D	I	II	SP	D	I	II	SP	M	F
		1	2				1	3	1
		1	2				1	3	1

General		Certain Subjects Passed				Remarks	
		S.T.		S.C.		Total	
M	F	M	F	M	F	M	F
11	18	20	9	2		33	27
		28	10			28	10
6	2	41	14			47	16
17	20	89	33	2		108	53

Analysis of P.G. Deptts.

Name of Deptt.	Appeared Genl.		ST.		SC.		Total		General O		Passed A	
	M	F	M	F	M	F	M	F	M	F	M	F
Geography	10	3	4	2			14	5			1	
Maths.	1		1	1			2	1				
Zoology.	6	1	3	3			9	4				
Chemistry	10	1	1				11	1			1	1
Botany.	3		3	2			6	2				
Physics	6	2	1				7	2				
Total :—	36	7	13	8			45	15			2	1

N.B.—S/Caste NIL.

Analysis of P.G. Deptts.

Name of Deptt.	Appeared				SC.		Total		General O		Passed A		(Grade) B	
	Genl. M	Genl. F	ST. M	ST. F	M	F	M	F	M	F	M	F	M	F
English	5	7	10	11			15	18					2	1
Pol. Sc.	2	2	15	9			17	11						2
Philosophy		3	4	2			4	5						
History	5	3	15	5			20	8			1	2	1	1
Economics	6	3	15	11			21	14						
Sociology	1	5	9	9			10	14			1	1		3
Total of Arts :	19	23	68	47			87	70			1	4	3	8
Total of Science :	36	7	13	8			45	15			2	1	26	5
Grand- Total :	55	30	81	55			132	85			2	2	30	13

N.B.—S/Caste NIL.

End Semester : 1980

(Grade)						S/Tribe				Passed		(Grade)	
B		C		Total	O		A		B		C		
M	F	M	F		M	F	M	F	M	F	M	F	
6	2	3		10	2					4	2	4	2
		1		1						1		1	1
6				6	1					3	3	3	3
7		1		9	1								
3				3						3	2	3	2
		2		4	2					1		1	
26	5	5		33	6					12	7	1	21

End Semester : 1980

C		Total		O		S/Tribe		Passed		(Grade)		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F
2	3	4	4	4	4			3	3	3	6	6	9
1		1	2					2	4	10	5	12	9
1	1	1	2					2	1	2		4	1
3		5	3					11	3	4	2	15	5
		4	1					4	4	5	5	9	9
	1	1	5					8	8			8	8
11	5	16	17					30	23	24	18	54	41
5		33	6					12	7		1	12	8
16	6	49	23					42	30	24	19	66	49

APPENDIX "B"

Enrolment for the

Name of the States	Course	General		S. Tribe		S. Caste		OBC	
		M	F	M	F	M	F	M	F
Meghalaya	1st Yr. PU.	991	582	1441	891	37	12	2	2
Mizoram	—do—	4		1036	579	4	3		
Nagaland	—do—	414	156	799	321				
Grand Total :-		1409	738	3276	1791	41	15	2	2
Meghalaya	1st. Yr. Degree Course.	590	390	645	464	20	5	1	
Mizoram	—do—	6	3	231	85		1		
Nagaland	—do—	176	57	280	95				
Total :		772	450	1156	644	20	6	1	

APPENDIX 'B'

Academic Year 1979-80

Total		Course	General		S. Tribe		S. Caste		OBC			Total	
M	F		M	F	M	F	M	F	M	F	M	F	
2471	1487	2nd Yr.	1033	494	1295	899	45	15	2	2	2375	1410	
1044	582	—do—	8	2	879	392	2	1			889	395	
1213	477	—do—	373	149	646	273	1				1020	422	
4728	2546	Total :	1414	645	2820	1564	48	16	2	2	4284	2227	
1264	851	2nd Yr.	642	326	660	475	16	15	1		1320	815	
		Degree Course											
237	89	—do—	12	2	267	75	2				281	77	
456	153	—do—	187	49	297	102					584	151	
1957	1093	Total :	841	377	1224	652	18	15	1		2185	104	

Name of the States	Course	General		S. Tribe		S. Caste		OBC		Total	
		M	F	M	F	M	F	M	F		
		3	4	5	6	7	8	9	10		11
1	2										
Meghalaya	B. Ed.	112	87	12	2					124	110
Nagaland	B. Ed.	57	12	32	6	1				60	18
Mizoram	B. Ed.	6	2	50	1					56	13
Total :—		175	101	94	40	1				240	141

PRE-L.L.B.

1	2	3	4	5	6	7	8	9	10	11	12
Shillong Law	L.L.B.	82	5	111	42					193	47
Kohima	L.L.B.	19	1	18	1					37	2
Total :—		101	6	128	43					230	49

INTER L.L.B.

	1	2	3	4	5	6	7	8	9	10	11	12
Shillong Law L.L.B.			104	6	43	26					147	32
Kohima L.L.B.			21		10						31	
Total :—			125	6	53	26					178	32

FINAL L.L.B.

	1	2	3	4	5	6	7	8	9	10	11	12
Shillong Law L.L.B.			58	9	32	9					90	18
Kohima												
Total			58	9	32	9					90	18

Enrollment for the Academic Year 1979-80

Meghalaya Colleges

FIRST YEAR PRE-UNIVERSITY

Name of College	Course	General		S. Tribe		S. Caste		O B C		TOTAL	
		M	F	M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12
St. Anthony's	P (Arts)	69		165						234	
	PU (SC.)	120		179						299	
	P (Com.)	81		71						152	
Shillong College.	PU (Arts)	63	45	50	40	2				115	85
	PU (SC.)	24	3	23	9					47	12
	PU (Com.)	89	3	84	20	3				173	26
St. Edmund's	PU (Arts)	31		121						152	
	PU (SC.)	119		48						167	
St. Mary's	PU (Arts)		106			129					235
	PU (SC.)		47			25					72

I	2	3	4	5	6	7	8	9	10	11	12
Lady Keane	PU (Arts)		168		210		4				382
	PU (SC)		28		34						62
Sankardev	PU (Arts)	21	9	19	7	8	2			48	1
	PU (SC)	25	8	15	7	6	2			46	17
U. G. C.	PU (Arts)	54	35	52	33			2	2	108	70
Jowai	PU (Arts)			70	73					70	73
	PU (SC)			16	11					16	11
Tura	PU (Arts)	225	108	185	66	12				422	174
	PU (SC)	44	16	28	10	1				73	26
Sengkhasi	PU (Arts)	1		71	13					72	13
Mendipathar	PU (Arts)	6		23	1					47	23
Synod	PU (Arts)	19	6	204	181	7	1			230	188
TOTAL :—		991	582	1441	891	37	12	2	2	2471	1487

	1	2	3	4	5	6	7	8	9	10	11	12
Sankardev			61	35	43	15	8	3			112	53
			95	20	40	13	6	1			141	34
U. C. C.			49	29	47	18			2	2	98	40
Jowai					58	62						
					11	11					58	62
											11	11
Tura			143	87	88	43	10	2			241	132
				29	15	20	8				23	49
Sengkhasi				54	38						54	39
Mendipathar			31		71	11	1				103	11
Synod			22	3	188	210	6	6			216	219
Total :-			1033	494	1295	899	45	15	2	2	2375	1410
FIRST YEAR PU			991	582	1441	891	37	12	2	2	2471	1487
MEGHALAYA GRAND TOTAL :-			2024	1076	2736	1790	82	27	4	4	5846	2897

**Enrolment For The Academic Year 1979-80
FIRST YEAR DEGREE :**

MEGHALAYA.

Name of Colleges	Course	General		S. Tribe		S. Cast		O B C		TOTAL	
		M	F	M	F	M	F	M	F		
1	2	3	4	5	6	7	8	9	10	11	12
St. Anthony's	B Sc. (Hons)	51		20						71	
	BA. (Hons)	21		46						67	
	B Com (Hons)	31	1	13						44	1
	B Sc. (Pass)	11		7						18	
	BA. (Pass)	31		42						73	
	B Com (Pass)	18		15						33	
Shillong College	B Sc. (Hons)	5	1	5	4					10	5
	BA. (Hons)	5	2	3						8	2
	B Com (Hons)	24		10	1					34	1
	BA. (Pass)	20	6	19	25					39	31
	B Sc. (Pass)	5	1	4	1					9	2
	B. Com. (Pass). 31.			33	6					64	6

Enrolment For The Academic Year 1979-80

SECOND YEAR DEGREE

Name of Colleges	Course	General		S. Tribe		S. Caste		O B C		TOTAL	
		M	F	M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12
St. Anthony's	B.Sc. (Hons)	76		14		2				92	
	BA. (Hons)	12		40						52	
	B. Com. (Hons)	25	1	6						31	1
	B.Sc. (Pass)	11		9						20	
	BA. (Pass)	44		63						107	
	B. Com. (Pass)	34		15						49	
Shillong College	B.Sc. (Hons)	4	1	1						5	1
	BA. (Hons)	3	4	4						7	4
	B. Com. (Hons)	11	1	4						15	2
	BA. (Pass)	31	5	25	21					56	26
	B.Sc. (Pass)	10	3	4	4					14	7
	B. Com. (Pass)	33		37	8					70	8

	1	2	3	4	5	6	7	8	9	10	11	12
St. Edmund's		BSc. (Hons)	46		5						51	
		BA. (Hons)	19		33		1				53	
		BA. (Pass)	46		106			1			153	
		BSc. (Pass)	65		10						75	
St. Mary's		BA. (Hons)		41		32						73
		BA. (Pass)		22		37						59
		BSc. (Pass)		2								2
		BSc. (H. Sc)		4		3						7
Lady Keane		BSc. (Hons)		13		12						25
		BA. (Hons)		36		28						64
		BSc. (Pass)		38		11						49
		BA. (Pass)		93		156		4				253
Sankardev		BA. (Pass)	65	23	48	17	9	2			122	42
		BA. (Hons)				NIL						
Synod College		BA. (Hons)	1		5	19					6	19
		BA. (Pass)	23	2	133	64	1	8			157	74

1	2	3	4	5	6	7	8	9	10	11	12
Seng Khasi U.C.C.	BA. (Pass) BA. (Hons) BA. (Pass)	9 12	1 14	31 9 12	19 1 4			1		31 18 25	19 2 18
Govt. College Jowai	BA. (Hons) BA. (Pass)			1 15	1 26					1 15	1 26
Govt. College Tura.	BA. (Hons) BSc. (Pass)	7	4	1 2	2 1	1				9 7	6 3
Mendipathar	BA. (Pass) BA. (Pass)	38 10	15 1	16 13	6 2	2				55 23	21 3
Meghalaya Grand Total :-		642	326	660	475	16	15	1		1320	815

ENROLMENT FOR THE ACADEMIC YEAR 1979-80

NAGALAND

FIRST YEAR DEGREE

	1	2	3	4	5	6	7	8	9	10	11	12
Science College		BSc. (Pass)	3	2	34	1					37	3
		BSc. (Hons)	2	1	20	3					22	4
Dimapur College		BA. (Pass)	33	14	22	9					55	23
		B.Com. (Pass)	34	3	17	1					51	4
Fazl Ali College		BA. (Pass)			51	23					51	23
		BA. (Hons)			5	2					5	2
Kohima College		BA. (Pass)	102	37	84	30				186	67	67
Mount Tiyi College		BA. (Pass)			12	12				12	12	12
Tuensang		BA. (Pass)	2		5	3					7	3
Patkai College		BA. (Pass)			30	12					30	12
TOTAL :—			176	57	280	95					456	153

SECOND YEAR DEGREE

1	2	3	4	5	6	7	8	9	10	11	12
Science College	B.Sc. (Pass)	1		7	1					8	1
	B.Sc. Hons	5	2	4						9	2
Dimapur College	BA. (Pass)	34	12	22	8					56	2
	B.Com. (Pass)	32	1	19	1					51	20
Fazl Ali College	BA. (Pass)		87	41						87	41
	BA. (Hons)		13	5						13	5
Kohima College	BA. (Pass)	115	33	100	29					215	62
Mount Tiyi College	BA. (Pass)			12	12					12	12
Tuengsang	BA. (Pass)		1	12	1					12	2
Patkai College	BA. (Pass)		21	4						21	4
Total :		187	49	297	102					584	151

Enrolment For The Academic Year 1979-80

MIZORAM

FIRST YEAR DEGREE

Name of College	Course	General		S. Tribe		S. Caste		O B C		TOTAL	
		M	F	M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12
Pachhunga College	BA. (Pass)			11	4					11	4
	BSc. (Pass)			13						13	
	BA. (Hons)			43	21		1			43	22
Aizawl College	BA. (Pass)	2	2	71	36					73	38
	BA. (Hons)	4	1	55	14					59	15
Serchhip College	BA. (Pass)			7						7	
Longlei College	BA (Pass)			20	4					20	4
Champhai College	BA. (Pass)			11	6					11	6
Mizoram Total :—		6	3	231	85		1			237	89

SECOND YEAR DEGREE

MIZORAM

Name of College	Course	General		S. Tribe		S. Caste		O B C		TOTAL	
		M	F	M	F	M	F	M	F	M	F
I	2	3	4	6	6	7	8	9	10	11	12
Pachhunga College	BA. (Pass)				23	4				23	4
	BSc. (Pass)				5					5	
	BA. (Hons)				33	10	2			35	10
Aizawl College	BA. (Pass)	7			123	42				130	42
	BA. (Hons)	1			32	4				33	4
Serchhip College	BA. (Pass)	4	2		18	5				22	7
Lunglei College	BA. (Pass)				11	2				11	2
Champhai College	BA. (Pass)				22	8				22	8
Mizoram Total :-		12	2	267	75	2	2	281	77		

Enrolment In LL.B. Course For 1979-80

PRELIMINARY

Name of College.	General		S. Tribe		S. Caste		O B C		TOTAL	
	M	F	M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11
Shillong Law.	82	5	111	42					193	47
Kohima Law.	19	1	18	1					37	2
TOTAL :--	101	6	129	43					230	49

INTER-MEDIATE

	1	2	3	4	5	6	7	8	9	10	11
Shillong Law.		104	6	43	26					147	32
Kohima Law.		21		10						31	
TOTAL :—		125	6	53	26					178	32

FINAL

	1	2	3	4	5	6	7	8	9	10	11
Shillong Law.		58	9	32	9					90	18
Kohima Law.											
TOTAL :—		58	9	32	9					90	18

B. ED. ENROLMENT 1979-80 :

Name of Colleges	General		S. Tribe		S. Caste		O B C		TOTAL	
	M	F	M	F	M	F	M	F	M	F
P.G.T. College	109	45	11	14					120	59
St. Mary's "	3	42	1	9					4	51
Nagaland "	57	12	32	6		1			60	18
Mizordm "	6	2	50	11					56	13
TOTAL :-	175	101	94	40		1			240	141

Enrolment in Post-Graduate Deptts. NEHU. Shillong for the Academic Year 1979-80

REVIUOUS

Name of the Deptts.	General.		S. Tribe		S. Caste		O B C		TOTAL	
	M	F	M	F	M	F	M	F	M	F
M.Sc. (Chem)	5		4	1			2		11	1
M.Sc. (Phy)	4	1					2		6	1
M.Sc. (Bot).	5	2	8	3			1	1	14	6
M.Sc. (Zoo).	6	2	7	4			1	1	14	7
M.Sc. (Maths)	3	2	1	1					4	3
TOTAL :	23	7	20	9			6	2	49	18

	1	2	3	4	5	6	7	8	9	10	11
M.A. (Eng.)		10	8	12	8			2		24	16
M.A. (Eco.)		19	3	22	8					41	11
M.A. (P. Sc.)		6	7	12	9			4		22	16
M.A. (Phil.)		3	7	10						13	7
M.A. (Hist.)		3	1	27	6					30	7
M.A. (Geog.)		9	5	8		1				18	5
M.A. (Edn.)			2	5	8					5	10
M.A. (Soc/Ant.)		2	2	14	3	1			2	10	7
M. Ed.											
TOTAL :-		52	35	108	42	2		6	2	70	79

Enrolment in Post-Graduate Deptts. NEHU : Shillong for the Academic Year 1979-80 :

FINAL

	1	2	3	4	5	6	7	8	9	10	11
M. Sc. (Chem.)		6	1	1				4		11	1
M. Sc. (Phy.)		6	2	1						7	2
M. Sc. (Bot.)		2	2	2	3	1				5	5
M. Sc. (Zoo)		6	2	3	2					9	4
M. Sc. (Maths.)		1		1						1	1
TOTAL :—		21	7	8	5	1		4		33	13

	1	2	3	4	5	6	7	8	9	10	11
M.A. (Eng.)		7	7	8	10			1	2	16	19
M.A. (Eco.)		8	3	14	7					22	10
M.A. (P. Sc.)		1	3	15	10			2	1	8	14
M.A. (Phil.)			3	4	2					4	5
M.A. (Hist.)		9	5	14	4					23	9
M.A. (Geog.)		6	4	7	2			1		14	6
M.A. (Edu.)				5	10					5	10
M.A. (Soc/Ant.)		1	5	9	9				1	10	15
M.A. (Ed.)			5		1						6
TOTAL :-		32	35	76	55			4	4	112	94

Kohima - Nagaland Campus Enrolment 1979-80.

PREVIOUS

	1	2	3	4	5	6	7	8	9	10	11
M.A. Edn.			2	5	10					10	10
M. Ed.			2	5	8					5	10
M.A. Eng.				1	7					1	7
TOTAL :			4	11	25					13	27

FINAL

	1	2	3	4	5	6	7	8	9	10	11
M.A. Edn.				5	10					5	10
M. Ed.				5	10					5	10
M.A. Eng.											
TOTAL :-				10	20					10	20

Enrolment of M. Phill/Ph. D. for 1979-80.

Name of Dept.	Course	General		S. Tribe		S. Caste		O.B.C.		Total	
		M	F	M	F	M	F	M	F	M	F
English	M. Phil	1	1		1					1	2
	Ph. D.	1	1							1	1
Economics	M. Phil.	1	2							1	2
	Ph. D.		2	1						1	2
Pol. Science	M. Phil.	1	1	4	2					5	3
	Ph. D.										
Philosophy	M. Phil.	2	6	2						4	6
	Ph. D.		3		1						4
Sociology	M. Phill.	4	1	2	1					6	2
	Ph. D.	1								1	
History	M. Phil.										
	Ph. D.										
M. Ed.		2	1	2						4	1

College of Agriculture, Medziphema
Enrolment of Students

Year of Admission	General		S. Tribe		S. Caste		Total	
	M	F	M	F	M	F	M	F
1978 —	41	2	28	1			36	3
1978 —	40	16	22	2			38	2