



**NINTH ANNUAL REPORT  
1982-83**

**North-Eastern Hill University**  
**SHILLONG**

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**A. Patton**

**Registrar,**

**North-Eastern Hill University.**

**Shillong ( Meghalaya ).**

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# C O N T E N T S

	Page No.
<b>Foreword</b>	
<b>University Administration, Officers and Authorities</b>	i—xxxiv
<b>I School of Languages</b>	
1. Department of English	1
2. Department of Khasi	7
<b>II School of Social Sciences</b>	
1. Department of Economics	9
2. Department of Commerce ( Kohima )	13
3. Department of Sociology	16
4. Department of Political Science	22
5. Department of Philosophy	25
6. Department of History	32
7. Department of Anthropology	37
<b>III School of Education</b>	
1. Department of Education	40
<b>IV School of Environmental Sciences</b>	
1. Department of Geography	47
<b>V School of Physical Sciences</b>	
1. Department of Physics	51
2. Department of Chemistry	57
3. Department of Mathematics	69

<b>VI School of Life Sciences</b>	
1. Department of Botany	74
2. Department of Zoology	90
3. Department of Bio-Chemistry	98
<b>VII Centres</b>	
1. Centre for Adult & Continuing Education	102
2. Centre for Creative Arts	104
<b>VIII Library</b>	106
<b>IX College Development Council</b>	109
<b>X Short report of the Colleges (Cap)</b>	110
<b>XI Department of Physical Training Sports &amp; Games</b>	134
<b>XII Campus Development &amp; Engineering Cell</b>	136
<b>XIII Examination Department</b>	139

## FOREWORD

Since NEHU's inception in the year 1973 it has grown from strength to strength. The University has been extending help to its two other Campuses with the aim of promoting knowledge amongst the youth and channelizing their energies towards more profitable goals. This Annual Report presents an insight into the activities and achievements of the University during the academic year 1982-83.

The University made a special review of its role and responsibilities in relation to the overall socio-economic development of the hill people in the North-Eastern region in general and the nature of the academic thrust required for this purpose in particular.

Enrolment in the University rose from 24,330 during 1981-82 to 24,533 in 1982-83 registering an increase of 0.83%.

The UGC has extended the term of its assistance to the College Development Council upto the end of the Sixth Five Year Plan. The North-Eastern Hill University has also adopted the Ordinance of the Gauhati University in matters relating to the granting of affiliation to colleges. Performances of some of the affiliated colleges are included in the report.

## NEHU ORGANISATIONAL STRUCTURE

### VISITOR

Mr. Neelam Sanjiva Reddy      President of India

### CHIEF RECTOR

Mr. L. P. Singh      Governor of Assam  
Meghalaya &  
Nagaland.

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Energy Commission.

### VICE CHANCELLOR

Dr. B. D. Sharma

### PRO-VICE-CHANCELLOR

Prof ( Mrs ) P. N. Das  
Prof. C. L. Anand

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School of Languages	Prof. P. Singh
School of Social Sciences	Prof. M. Miri
School of Life Sciences	Prof. R. R. Mishra
School of Education	Prof. C. L. Anand
School of Physical Sciences	Prof. H. Junjappa
School of Environmental Sciences	Vacant

### HEADS OF THE DEPARTMENTS

Anthropology	Dr. A. P. Sinha
Botany	Dr. R. R. Mishra
Bio-Chemistry	Dr. R. Lalchand anga.

( ii )

**Chemistry**

**Dr. T. S. B.**

**Narasaraju**

**Commerce**

**Dr. B. K. Tandon**

**Economics**

**Dr. S. N. Guha**

**Thakurta**

**English**

**Dr. D. P. Singh**

**Education**

**Dr. P. P. Gakul-**

**anathan**

**Geography**

**Dr. R. K. Rai**

**History**

**Dr. J. B. Bhatta-**

**charjce**

**Khasi**

**Dr. R. S. Lyngdoh**

**Mathematics**

**Dr. S. S. Khare**

**Philosophy**

**Dr. ( Mrs ) Sujata**

**Miri**

**Physics**

**Dr. A. L. Verma**

**Political Science**

**Dr R. L. Wali**

**Sociology**

**Dr. A. C. Sinha**

**Zoology**

**Dr. M. K. Khare**

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**FINANCE OFFICER**

**Mr. S. Roy**

**LIBRARIAN**

**Mr. J. C. Binwal**

**DEAN, STUDENTS WELFARE**

**Dr. Imdad Hussain**

**DIRECTOR OF SPORTS**

**Dr. Imdad Hussain**

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Mr. P. Moasosang	Officer on Special Duty ( Nagaland Campus )
Mr. Rokamlova	Deputy Registrar (Mizoram Campus)
Mr. J. W. Smith	Officer on Special Duty ( Conference )
Mr. O. D. Shira	Assistant Registrar ( Administration )
Mr. K. J. S. Prasada Rao	Assistant Registrar ( Academic )
Mrs. S. Rynjah	Assistant Registrar ( Exam )
Mr. W. M. Roy Wallang	Assistant Finance Officer

**MEDICAL OFFICER**

Dr. J. Sailo  
Dr. ( Mrs ) M. Synrem

**PRINCIPAL ( CONSTITUENT COLLEGES )**

Dr. S. N. Tewari	Agricultural Co- llege Medziphema, Nagaland.
Mr. Darchhawna	Pachhunga University College Aizawl.

**CENTRES**

Miss Asorphi Roy	Adult & Continu- ing Education
Dr. H. Barch	Creative Arts
Dr. R. S. Tripa hi	Eco-Development
Mr. Saingenga	Director

**LIST OF NEHU COURT MEMBERS ( AS ON 24. 1. 1933 )**

1. Dr. H. N. Sethna, — Chairman, Atomic Energy Commission, Chhatranti Shivaji Marg, Bombay - 400 039.
2. Dr. B. D. Sharma, — Vice Chancellor, NEHU
3. Prof. ( Mrs ) P. N. Das, — Pro-Vice-Chancellor, Kohima Campus, NEHU Kohima, Nagaland.
4. Prof. C. L. Anand, — Pro-Vice-Chancellor, Aizawl Campus, NEHU, Aizawl, Mizoram.
5. Dr. Imdad Hussain, — Dean Student Welfare, NEHU.
6. Mrs. M. R. Mawlong. — Registrar, NEHU.
7. Mr. J. C. Binwal, — Librarian, NEHU.
8. Finance Officer, NEHU.
9. Dr. Milton S. Sangma Proctor, — Department of History, NEHU.
10. Prof. M. Miri, — Dean, School of Social Sciences' NEHU
11. Prof. H. Junjappa, — Dean, School of Physical Science, NEHU.
12. Prof. R. R. Mishra, — Dean, School of Life Sciences, NEHU
13. Prof. D. P. Singh, — Dean, School of Languages, NEHU.

14. Prof. C. L. Anand, — Dean, School of Education, NEHU.
15. Prof. C. N. Bhalerao — Department of Political Sciences, NEHU.
16. Prof. S. N. Rao, — Department of History, NEHU.
17. Prof. M. K. Khare, — Department of Zoology, NEHU.
18. Prof. T. S. B. Narasaraaju, — Department of Chemistry, NEHU.
19. Prof. P. S. Ramakrishnan, — Department of Botany, NEHU,
20. Prof. K. K. Gupta, — Department of Physics, NEHU.
21. Prof. A. L. Verma, — Department of Physics, NEHU.
22. Prof. B. Das, — Department of Education, Kohima Campus, NEHU. Kohima, Nagaland.
23. Prof. S. Homchaudhuri — Department of English, NEHU.
24. Prof. B. B Chatterjee, — Department of Psychology, NEHU.
25. Prof. M. N. Karna, — Department of Sociology, NEHU.
26. Prof. K. Das, — Department of Commerce, Kohima

27. Prof. R. S. Lyngdoh, — Department of Khasi, NEHU.
28. Prof. J B. Bhattacharjee, — Department of History, NEHU.
29. Dr ( Mrs ) S. Miri, — Department of Philosophy, NEHU.
30. Dr. R. L. Walli, — Department of Political Sciences, NEHU.
31. Dr. S. N. Guha Thakurta, — Head Deptt. of Economics, NEHU
32. Dr. A. C. Sinha, — Head, Deptt. of Sociology, NEHU.
33. Dr. S. S. Khare, — Head, Department of Mathematics, NEHU.
34. Dr. R. K. Rai, — Head, Department of Geography, NEHU.
35. Dr. R. L. Lalthantluanga, — Head, Department of Geography, NEHU.
36. Dr. P. P. Gokulanathan — Head, Deptt. of Education, NEHU.
37. Reader-in-Charge. — Centre for Continuo; Education, NEHU.
38. Dr. Hamlet Barch, — Reader-in charge, Centre for Creative Arts, NEHU.

( vii )

39. Dr. A. P. Sinha, — Head, Deptt. of Cultural Anthropology, NEHU.
40. Dr. R. S. Tripathi, — Reader-incharge, Centre for Eco-Development, NEHU
41. Principal — Sankardev College, Shillong.
42. Principal, — Post-Graduate Training Centre, Shillong.
43. Principal, — Law College, Shillong.
44. Principal, — Synod College, Shillong.
45. Principal, — Jowai Govt. College, Jowai.
46. Principal, — Mendipathar College Mendipathar, Garo Hills.
47. Principal, — Seng Khasi College, Shillong.
48. Principal — Tuensang College, Tuensang, Nagaland.
49. Principal, — Patkai Christian College, Dimapur, Nagaland.
50. Principal, — Mount Tiya College, Wokha, Nagaland.
51. Principal, — Nagaland College of Education, Kohima.

52. Principal, — Serchhip College,  
Serchhip, Mizoram.
53. Principal, — Mizoram Institute of  
Education, Aizawl.
54. Principal, — Aizawl College, Aizawl,  
Mizoram.
55. Dr. M. L. Kar, — St. Edmunds College,  
Shillong.
56. Shri L. D. Shira, — Tura Govt. College,  
Tura.
57. Mrs. H. Khongwir, — Lady Keane Girls'  
College, Shillong.
58. Shri A. J. Aier, — Fazi Ali College,  
Mokokchung,  
Nagaland.
59. Shri B. K. Sarkar, — Dimapur College,  
Dimapur, Nagaland.
60. Shri Lalchungunga, — Aizawl College,  
Aizawl, Mizoram.
61. Shri Bijoy Krishan Handique, — ( a ) 40, Meena Bagh,  
New Delhi.  
( b ) Shri Bijoy  
Krishnan Handique,  
Kushal Konwar Fa h,  
Jorhat ( Assam )
62. Smt. Ila. Bhahtacharya, — ( a ) 120, Vithal  
Patel House, Rafi  
Marg, New Delhi.  
( b ) Smt. Ila Bhatta  
charya, Kalibari  
Lane, Krishnanagar,  
P. O. Agartala,  
West Tripura.

63. Shri C. Konyak, — ( a ) B. Feroze Shah Road, New Delhi.  
( b ) Shri C. Konyak Konyak Cottage, Circular Road. Dimapur, Nagaland.
64. Shri M. M. Lawrence. — ( a ) 105, North Avanne, New  
( b ) Shri M. M. Lawrence, Koltek-attr Road, Cochind-119 Kerela.
65. Shri Sobeng Tayeng, — Village Tofrogan, P. O. Tezu. Lochip, Dist. Arunachal Pradesh.
66. Shri Pius Tirkey, — ( a ) Sankok Tea Gardens, Dist Jalpaiguri, West Bengal.  
( b ) Shri Pius Tirkey, 9. Canning Lane, New Delhi.
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68. Dr. Anand Sarup, — Vice-Chancellor, G. D. Pant University of Agriculture & Technology, Pant Nagar, Nainital.

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80. Prof. J. J. Nanavaty, — 11, Napier Road, Pune-411 001.
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83. Prof. B. M. Udgaonkar, — Sr. Professor, Physics Faculty, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Bombay.
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87. General Secretary, — NEHUNSA, Shillong.
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91. Smt. Rano M. Shaiza, — Mission Compound, Kohima Town, Kohima.
92. Shri S. L. Sailova IAS, — Secretary to the Govt. of Mizoram, Education & Social Welfare Department, Aizawl-796 001.
93. Shri K. N. Channa, — Chairman Banking Service Recruitment Board, 75-76 Manesha Nehru Place New Delhi-110 019.
94. Dr. K. Chatterjee, — Reader, Department of Zoology, NEHU.
95. Director of Public Instruction, — Meghalaya.

96. Director of Education, — Government of Nagaland, Kohima.
97. Director of Education, — Government of Mizoram, Aizawl.
98. Shri T. R. Jayarāman, — 14, First Main Road, Extension, Bangalore.
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100. Dr. L. P. Vidyarthi, — Head, Department of Anthropology, Ranchi University, Ranchi-834 001
101. Principal, — St. Anthony's College, Shillong.
102. Shri Kiremwati Ao, — Principal, Science College, Kohima.
103. Shri Lalawia, — Principal, Lunglei College, Lunglei, Mizoram.

## MEMBERS OF THE EXECUTIVE COUNCIL

1. Dr. B. D. Sharma, — Vice-Chancellor,  
NEHU.
2. Prof ( Mrs ) P. N. Das — Pro-Vice-Chancellor,  
( Kohima Campus )  
Kohima, Nagaland
3. Prof. C. L. Anand, — Prof-Vice Chancellor<sup>t</sup>  
( Mizoram Campus ),  
NEHU, Aizawl,  
Mizoram.
4. Prof. H. Junappa, — Dean, School of  
Physical Sciences,  
NEHU.
5. Prof. R. R. Mishra, — Dean, School of  
Life Sciences, NEHU.
6. Prof. D. P. Singh, — Dean, School of  
Languages, NEHU.
7. Prof. K. K. Gupta, — Department of Physics  
NEHU
8. Dr. K. Chatterjee, — Reader, Department  
of Zoology, NEHU.
9. Fr. Paul Petta, — Principal St. An-  
thony's College,  
Shillong.
10. Shri Kiremati Ao, — Principal, Science  
College, Kohima,  
Nagaland
11. Shri Lalawia, — Principal, Lunglei  
Govt. College,  
Lunglei ( Mizoram )

- |     |                                     |                                                                                                             |
|-----|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 12  | Director of Public<br>Instructions, | — Meghalaya,<br>Shillong.                                                                                   |
| 13  | Director of Education,              | — Government of<br>Nagaland, Kohima<br>( Nagaland).                                                         |
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| 15. | Shri Vicki Kapoor,                  | — Advocate, Supreme<br>Court, 70-71, Mysore<br>Colony, Bombay-74.                                           |
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| 18. | Prof. T. N. Jacob,                  | — Professor of Bio-<br>Chemistry Indian<br>Institute of Science,<br>Bangalore.                              |
| 19. | Shri K. H. Channa,                  | — Chairman Banking<br>Service Recruitment<br>Board,<br>75-74, Manesha<br>Building Nehru<br>Place New Delhi. |
| 20. | Prof. L. P. Vidyarthi,              | — Head, Department<br>of Anthropology,<br>Ranchi University,<br>Ranchi-834 001.                             |
| 21. | Mrs. M. Mawlong,                    | — Registrar<br>NEHU.                                                                                        |

## MEMBERS OF THE ACADEMIC COUNCIL

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2. Prof. (Mrs) P. B. Das, — Pro-Vice-Chancellor
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Dean School of  
Education NEHU.
4. Prof. D. P. Singh, — Dean, School of  
Language, NEHU.
5. Prof. M. Miri, — Dean, School of  
Social Sciences,  
NEHU.
7. Prof. R. R. Mishra, — Dean, School of Life  
Sciences, NEHU.
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Physical Sciences,  
NEHU,
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Welfare, NEHU
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NEHU.
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Commerce, NEHU.

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20. Dr ( Mrs ) Sujata Miri, — Head Department of Philosophy, NEHU.
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22. Dr. R. L. alli, — Head Deptt of Pol Science NEHU.
23. Dr. A. C. Sinha, — Head Deptt. of Sociology, NEHU.
24. Prof. M. K. Khare, — Head Deptt. of Zoology NEHU.
25. Dr. H. Barch, — Head Centre for Creative Arts. NEHU.
26. Miss Asorphi Roy, — Incharge Centre for Continuing Education, NEHU.

27. Dr. R. S. Tripathi — Incharge Centre for Eco-Development, NEHU.
28. Dr. J C. Binwal. — Librarian, NEHU.
29. Principal, — Pachhunga University, College, NEHU.
30. Principal, — College of Agriculture, Medziphema, Nagaland.
31. Prof. C. N. Bhalerao, — Deptt. Pol. Science, NEHU.
32. Prof. S. N. Rao, — Department of History NEHU.
33. Prof P. S. Ramakrishnan, — Department of Botany, NEHU.
34. Prof. K. K. Gupta, — Department of Physics, NEHU.
35. Prof. B Das, — Department of Education NEHU.
36. Prof S. Hom. Chaudhuri, — Deptt. of English, NEHU.
37. Prof. M. N. Karna, — Department of Sociology, NEHU.
38. Prof. K. Das, — Department of Commerce, NEHU.
39. Shri L. Sharma, — Principal, Shillong Law College, Shillong
40. Shri S. K. Austin John, — Principal, Union Christian College, Barapani.

41. Miss B. Tymthai, — Principal Seing Khasi College, Shillong.
42. Shri S. N. Singh, — Principal Tuensang College, Tuensang, Nagaland.
43. Shri Tuisam A. Shishak, — Principal Patkai Christian College Dimapur, Nagaland
44. Shri Lalthanfala Sailo, — Principal, Champhai College Champhai, Mizoram.
45. Dr. K. Chatterjee, — Department of Zoology, NEHU.
46. Dr. A. Raghu Verma, — Department of Zoology, NEHU.
47. Shri P. K. Saikia, — Department of Mathematics, NEHU.
48. Shri B. K. Dev. Sharma, — Department of Mathematics, NEHU.
49. Shri Thanglawma, — Department of Economics, NEHU.
50. Prof A. C. Bhagabati. — Department of Anthropology, Dibrugarh University, Dibrugarh.
51. Prof. Nitish De, — Indian Institute of Management Calcutta.
52. S. P. Banerjee, — Head Department of Philosophy Calcutta University Calcutta.

53. Dr ( Miss ) Annita Banerjee, — Head Deptt. of Economics Jadav University, Calcutta.
54. Dr. Ikram Uddin Ahmed, — Kohima Science College Kohima.
55. Shri I Onen Ao, — Dimapur College, Dimapur.
56. Shri S. Bhattacharya, — Lady Keane Girl's College, Shillong.
57. Shri Tapan Moitra, — Shillong College,
58. Shri B. N. Talukdar, — St. Anthony's College, Shillong.
- 59 Shri Lalrimawia, — Pachhunga University College, Aizawl.
60. Mrs. M. R. Mawlong — Registrar and Secretary, NEHU.

## SCHOOL OF LANGUAGE

### Department of English ( Shillong)

- Professors** : Dr. S. Homchoudhury-Dean of the School  
and Head of the Department.
- Readers** : Dr. E. N. Lall  
Dr. N. Hasan  
Dr. ( Mrs. ) T. Ao  
Dr. R. P. Sharma.
- Lecturers** : Dr. Prabodh Jhingam  
Miss Juanita War  
Mr. P. Pimomo  
Mrs. N. Syiem.

### NAGALAND CAMPUS ( KOHIMA )

- Professor** : Dr. A. G. George  
Dr. S. K. Das.
- Reader** : Dr. J. C. Mahanti.
- Lecturers** : Mr. K. C. Joseph  
Miss N. Ganguly.

### MIZORAM CAMPUS ( AIZAWL )

- Lecturers** : Mr. K. C Baral  
Mr. Thangtunga  
Mrs. M. Zama  
Miss R. Ralte  
Miss Lalangdeli.

### DEPTT. OF KHASI ( SHILLONG ) :

- Professor** : Dr. R. S. Lyngdoh ( Head of the  
Department )
- Reader** : Dr. H. W. Sten
- Lecturer** : Mr. B. L. Swer  
Smt. Badaplin War.

II. SCHOOL OF SOCIAL SCIENCES :—

Department of Economics ( Shillong ) : Specialization.

- Professor : Dr. Shri Prakash (Head of the Department)  
Dr. T. Mathew  
Dr. K. Bez, Econometrics.  
Dr. A. Banerjee ( on leave ).
- Lecturers : Mr. E. D. Thomas, Micro-Economics  
Mr. T. Lawma, Agricultural Economics.
- Visiting Faculty : Dr. V. P. Pandey.

MIZORAM CAMPLS (AIZAWL) Specialisation

- Readers : Dr. K. K. Upadhyaya-Micro-Economics  
Dr. M. R. Sauthanam  
Dr. S. N. Guha Lhkurta Monetary  
Theory.

Department of Commerce (Kohima)

- Reader : Dr. B. K. Tandon- Personnel Management  
Reader-in-Charge.
- Lecturers : Mr. Tvihienuo-Economics  
Mr. H. R. Ghose Roy. Accountancy

Department of History :

- Professor : Dr. S. N. Rao  
Dr. J. B. Bhattacharjee - Head of the  
Department Prof. V. V. Rao, Visiting prof  
essor.
- Readers : Dr. Imdad Hussain  
Dr. (Mrs.) Helen Giri  
Dr. Milton Sangma.
- Lecturers : Dr. Sandeep Chawla ( on leave )  
Dr. B. R. Syiemieh  
Mr. K. Nakro  
Mr. Lal Momin  
Dr. R. L. Hangloo.

**Department of Philosophy :**

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**Readers** : Dr. N. Malle-Head of the Department  
Dr. (Mrs.) Sujata Miri.  
**Lecturers** : Dr. R. V. Vyas  
Dr. Bagat Pal  
Dr. S. C. Daniel

**Department of Political Science :-**

- Professor** : Dr. B. Pakem, Head of the Department.  
**Readers** : Dr. R. L. Walli  
Dr. S. H. Ahmed  
M. B. Nair.  
**Lecturers** : Mr. S. J. George  
Mr. L. Passah  
Mr. P. S. Lorin  
Mrs. R. Borgohain  
Mr. M. K. Nair

**Department of Sociology :-**

- Readers** : Dr. A. C. Sinha, Head of the Department.  
Dr. M. N. Karna  
Dr. V. Xaxa  
Dr. C. N. Nunthara  
**Lecturers** : Mr. N. Kumar  
Mr. C. L. Imchen.

**Department of Anthropology :- Specialization.**

- Reader** : Dr. I. J. S. Jaiswal- Head of the Department.  
Dr. A. P. Sinha.  
**Lecturers** : Dr. A. K. Singh  
Dr. R. N. Mishra  
Dr. K. H. Bhatta.

Visiting Faculty : Dr. B. D. Sharma- Adviser Planning  
(NEC)

Dr. Sunil Mishra,- Director Audience,  
Research. AIR NEW  
DELHI.

Dr. B. C. Agarwal,- Cordinator, Space  
Application Centre,  
Ahmedabad.

Dr. J. S. Bandarin Department of Anthro-  
pology, Delhi Univ.

### III. SCHOOL OF EDUCATION :

Department of Education- Research and studies :

Professor : Dr. P. P. Gokula-Research Methodology-  
nathan, Head of Study of educational  
the Deptt. system, educational  
management, Achieve-  
ment related motivation.

Reader : Dr. S. S. Babu.

### IV. SCHOOL OF ENVIRONMENTAL SCIENCES :

Reader : Dr. R. K. Ray, Head of Geomorphology  
of the Department,

Dr. P. Deka, Urban Economic Geography.

Dr. R. Gopalakrishan, Political Geography.

Dr. A. C. Mahapatra, Regional Planning-  
and Economic Geography.

Lecturers : Mr. A. Ahmed, Social and Political Geogra-  
phy.

Mr. P. G. Momin. Cartography.

V. SCHOOL OF LIFE SCIENCES :

Department of Zoology ;

Professor : Dr. R. G. Michael, Animal Ecology & Fresh  
water Biology Taxonomy.

Dr. J. P. Thapliyal

Dr. K. Chatterjee, Animal Cytogenetics.

Dr. M. K. Khare, Developmental Biology  
(Head of the Department)  
Animal Entomology

Reader : Dr. A. R. Varman Animal Physiology.

Dr. J. R. B. Alfred (on leave , Biosystematics  
Forest and Freshwater  
Ecology.

Dr. (Mrs) B. Tandon- Parasitology

Readers : Dr. (Mrs.) K. S. Lyngdoh-Educational.  
Psychology.  
Achievement Motivation,  
Educational System  
(N.E. REGION)

Lecturers : Dr. Mathew George-Teacher Behaviour, self-  
concept and gravity  
Educational Technology.

Dr. P. K. Ganguly, Philosophy of Education,  
Educational Technology.

NAGALAND CAMPUS (KOHIMA) :

Reader : Dr. K. K. Sharma

Lecturers : Dr. S. Barthakur  
Mr. J. C. Soni  
Mr. P. Gupta

**MIZORAM CAMPUS (AIZAWL)**

**Reader :** Dr. Mausingh, Psychology, Department.  
Dr. J. P. Shrivastava, Sociology of Education,  
Educational Reader in-Charge/Administration,  
Test Construction.

**Reader and O. S. D. :** Dr. M. A. Sudhir, Developmental Psychology  
Educational and Vocational guidance and  
counselling population education.

**Lecturers :** Dr. D. K. Ratha, Animal Bio-Chemistry.  
Dr. S. A. K. Nasar. Fish and fisheries, Limnology,  
Fish Ecology.  
Dr. B. K. Sarma, Systematic and Limnology

**Department of Botany :**

**Professors :** Dr. R. R. Mishra, Microbial Ecology.  
Dean of the School and Head of the Department.

Dr. P. S. Ramakrishnan, Ecology.

**Readers :** Dr. R. S. Tripathi, population Ecology.  
Dr. Y. S. Tripathi, Experimental morphology  
and morphogenesis.

Dr. R. R. Rao, Plant Taxonomy/Population  
Ecology.

Dr. P. Tandon, Plant Physiology.

Dr. B. K. Dutta, Plant pathology.

Dr. P. M. Reddylon leave, physiology and  
Biochemistry of Algae.

Dr. M. N. V. Prasad, Palaeobotany.

Dr. G. D. Sharma. Mycorrhizal ecology.

Dr. R. C. Lalo. Ecology.

Dr. H. N. Pandey.

Department of Bio-Chemistry :

Professor : Dr. R. Lalhantluanga, Head of the Department.

Lecturer : Dr. Yahya Khan,  
Dr R. N. Charan.

## VI. SCHOOL OF PHYSICAL SCIENCES :

Department of Physics :

Professors : Dr. K. K. Gupta- Many body Problem  
Nuclear structure.

Dr. A. L. Verma, Laser Physics and  
Resonance. Head of the  
Department.

Readers : Dr. Y. S. T. Rao, Many body problem  
nuclear structure,

Dr. P. Shukla, Condensed Matter theory  
and phase transitions.

Dr. R. Singh, Experimental Nuclear  
Physics (Nuclear Reac-  
tions).

Dr. K. Kumar, Laser spectroscopy chemi-  
cal physics and molecular  
Dio-Physics.

Lecturers Dr. S. Singh, Condensed matter theory and  
phase transitions.

Dr. Y. S. Jain Spectroscopy (IR and Raman  
scattering), Solid State  
Physics.

Dr. D. Akthing Neutron Activation Ana-  
lysis.

Department of Chemistry :

Professors : Dr. H. Junjappa, **Synthetic Organic Chemistry; Newer synthetic methods and development of novel synthons for construction of Carbocyclic and Heterocyclic Ring Systems.**  
Dean of the School.

Readers : Dr. I. Subramanian : **Physical Chemistry Magnetic Resonance, theoretical Chemistry; FSR and theoretical studies on Metallic Porphyrins.**

Dr. (Mrs.) H. Ila (on leave) **Synthetic Organic chemistry Newer synthetic methods for construction of novel heterocyclic.**

Lecturers : Dr. Y. S. Jain- **Spectroscopy (IR and Raman scattering), Solid state Physics.**  
Dr. D. T. Kathing, **Neutron Activation Analysis.**

Department of Chemistry :

Professors : Dr. H. Junjappa, **Specialisation. Synthetic Organic Chemistry : Newer Synthetic methods and developments of novel synthons for construction of carbocyclic and Heterocyclic Ring systems.**  
Dean of the School

**Dr. T. B. S. Narasara-  
raju**

Physical chemistry :  
Studies on 1) Polymorphic  
substitutions, and 2) Solid solution  
formation among Isomorphous crystal, their  
characterisation and  
dissolution phenomena.

**Dr. J. Subramanian :**

Physical Chemistry :  
Magnetic Resonance  
theoretical chemistry ;  
ESR and theoretical  
studies on Metallo  
Porphyrins.

**Dr. (Mrs.) H. Ila :**  
( on leave )

Synthetic Organic che-  
mistry Newer synthetic  
methods for construction  
of novel heterocyclic  
ring systems and  
development of novel  
synthetic intermediates.

**Reader : Dr. S. N. Bhatta**

Physical Chemistry  
Charge Transfer com-  
plexes and Organic  
semi-conductors.

**Dr. M. K. Choudhuri :**

Inorganic Chemistry :  
1) Synthesis, structural  
assessment and studies  
of reactivity and uses  
of metal-fluoro, metal-  
peroxy in actylacetonate  
compounds ; and 2)  
mass spectrometry.

**Dr. M. P. Mahajan :** Synthetic and Mechanistic Organic Chemistry : 1, 3-Pi-polar cycloadditions and cycloaddition reactions of heterodienes.

**Lecturers : Dr. M. K. Mahanti :** Chemical Kinetics and theoretical chemistry Kinetics of oxidation reactions and molecular orbital calculations on organic molecules.

**Dr. R. K. Podder :** Inorganic chemistry : Chemistry of Transition metals in uncommon oxidation states VZ. Ni ( O ) Ni ( III ) and chemistry of Transition metals with tertiary Phospheries and arsines

**Dr. K. Ismail :** Physical Chemistry : Study on the Transport behaviour of melts, liquid and electrolyted.  
( on leave )

**Dr. K. K. Dwivedi :** Nuclear Chemistry : Trace element analysis with regard to environmental Pollution problems : 1) heavy iron trades in solid dielectrics, 27 XRF based trace analysis of environmental, geological, biological and agricultural samples.  
( on leave )

Dr. D. O. K. Medhi : Physical Inorganic Chemistry Synthesis and spectroscopic studies on mental complexes of biological signifiante.

Dr. B. Myrboh :

Department of Mathematics :

Readers : Dr. S. S. Khare, Algebraic and Defferential topology. Head of the Department.

Dr. P. Jothilingam : Algebraic and Numerical Theory.

Dr. Vijai Kumar : Numerical Analysis and computer programming.

Lecturers : Dr. B. K. Dev. Sharma : Fluid Mechanics.

Dr. P. K. Saikia : Algebraic Number Theory

Dr. M. B. Rege : Ring Theory.

Dr. S. Ranasubramaniam : Probabilitity Theory.

Mr. S. L. Marbaniang : Operations Research.

Mr. H. K. Mukherjee : Algebraic Topplopy.

Centre for Adult and Continuing Education :

Professor : Dr. M. C. Pandey

Head of the Department.

Mr C. P. Tiwari ( Reader-in-Charge )

Miss Asorphi Roy, Lecturer.

Centre for Creative Arts :

Dr. Hamlet Bareh ( Reader-in-Charge. )

## LIST OF THE AFFILIATED COLLEGES

Colleges	Principals	Estd.
<b>MEGHALAYA</b>		
+ 1. St. Edmund's College, Shillong.	Rev. Br M G Shannon	1924
+ 2. St. Anthony's College, Shillong	Father Paul Peita	1934
+ 3. Lady Keane Girl's College, Shillong	Miss A. Marbaniang	1935
= *4. St. Mary's College, Shillong	Rev. Mother Anne	1937
= 5. Union Christian College, Shg.	Shri S. K. Austin John	1952
+ *6. Tura Govt. College, Tura	R. Bhattacharya	1950
= 7 Sankardev College, Shillong	Shri R. N. Upadhyay	1962
* 8 Post Graduate Trg. College, Shg.	Mrs. J. E. Shullai	1964
** 9. Shillong Low College. Shillong.	Shri L. Sharmakhlit	1948
= 10. Synod College, Shillong	Shri E. M. Soikhlit	1965
+ * 11. Khasi Nongstoin Govt. College, Jowai	Shri R. Kharpar	1967
= 12. Mendipathar College, Mendipathar	Shri R. Raha	1971
+ 13. Seig Khasi College, Shillong.	Miss B. Tymthai	1963
** 14. Tura Law College, Tura	Shri L. Momin	1975
- 15. Nongstoin College, Nonstoin	Shri B. K. Laitflang ( Acting )	1978

## MIZORAM

+ 16.	Lunglei Govt. College, Lunglei	Shri Lalawia	1964
= 17.	Champhai College, Champhai	Shri Lalthangfala Sailo	1971
= 18.	Serchhip College, Serchhip	Shri H. D. Rosanga	1973
* 1 .	Mizoram Institute of Edn. Aizawl	Siamkima Khawhkring	1975
= 20.	Aizawl Collge, Aizawl	Shri Peter Lianhlcia	1975
= 21.	Kolasib College, Kolasib	Shri T. B. C. Liandala	1978
= 22.	Saiha College Saiha	Shri C. Zohupa	1978
+ 23.	Pachhunga University College Aizawl	Shri Saingenga	1958
= 24.	Zirtiri Women's College, Aizawl	Smt. Lalzihi Sailo	1980
= 25.	Hrangban College Aizawl.	Shri R. Zatlai	1980
= 26.	Hnahthial College, Hnahthial	Shri Lalthanzuala	1979
= 27.	Lawngtlai College, Lawngtlai	Shri T. Thangthuama	1981

## NAGALAND

= 28.	Fazal Ali College, Mokokchung	Shri I. Yanger	1959
% 29.	Science College, Kohima	Shri K. Deka	1961
× 30.	Dimapur College, Dimapur	Shri Cmsen Ao	1966
= 31.	Kohima College, Kohima	Shri B. Gupta ( on leave ) Shri H. Siaborn ( Acting )	1967
= 32.	Tuensang College, Tuensang	Shri S. N. Singh	

- 33.	Patkai Christian College, Dimapur.	Rev. Tuisem A. Shishak	1974
- 34.	Mount Tiya College, Wokha	Shri K. C. Murry	1974
* 35.	Nagaland College of Edn. Kohima	S. K. Sinha	1975
** 36.	Kohima Law College, Kohima	Shri T. N. Tankha	1978
- 37.	College of Agril. Medziphema	Dr. S. N. Tiwari	1978
- 38.	Zunheboto College, Zunheboto	Shri K. Zhimomi	1980
** 39.	Mokokchung Law College, Mokokchung.	Shri Tanjan Ao	1981

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+ Arts and Science College

= Arts College only

% Science Colleges only

- University Colleges.

× Commerce College

\*\* Law College

\* Teacher's Training College

## 1. DEPARTMENT OF ENGLISH (Shillong)

The Department of English was started in 1973, the year in which the University itself was established. Apart from encouraging research, the Department, since its inception, has been keenly alive to the urgent and growing responsibility of meeting the demand for competent teachers of English in the Schools and Colleges of this region.

The curriculum encompasses English, American and Commonwealth literature besides Linguistics.

In 1983 out of a total of 48 students who had taken the final examinations 35 passed, of whom 4 (four) were placed in the First Division. In 1982 out of a total of 49 students 38 passed, one in the First Division. The break-up of this batch is as follows :

### Students Intake (Shillong Campus)

M.A.	Male	Female	Total	of which	
				SC	ST
Semester I & II	26	23	49	2	27
Semester III & IV	23	25	48	3	30
<b>Nagaland Campus</b>					
Semester I & II	4	4	8	—	5
Semester III & IV	4	2	6	—	5
<b>Mizoram Campus</b>					
Semester I & II	12	8	20	—	19
Semester III & IV	9	1	10	—	9
Total	78	63	141	5	95

### M. Phil Programme

In the period under review the following scholars successfully completed the M. Phil Programme :

Name	Topic	Supervisor
1. Mrs. A. Tham	Schopenhauer & Nietzhe	Prof. D.P. Singh
2. Mrs. A Sengupta	D. Lawrence	Prof. D.P. Singh
3. Mr Krishanlal	T. Hulme	Prof. D P. Singh
4. Miss Easter Syiem	James Baldwin	Dr. E.N Lall
5. Mr. John Joy	Forster & Virginia Woolf	Dr. N. Hasan

### Ph. D. Programme

The following scholars have been declared qualified for the Ph. D. Degree :

Name	Topic	Supervisor
1. Mr. K.C. Joseph	Graham Greene	Prof. D.P. Singh
2. Mrs. T. Ao	Henry James	Prof. D.P. Singh
3. Mr. H.W. Sten	Khasi Poetry	Dr N. Hasan

The students noted below have completed their course work and are now carrying out their various research projects :

1. Brother Beddeo
2. Mrs. B. Nongbri
3. Mrs. C. Wallang
4. Miss Jayashree Goswami
5. Miss Monalisa Brahma
6. Miss Navanita Chaudhury
7. Miss Sushmita Deb
8. Mr. Kiran Bhuyan
9. Miss Watimongla Ao

10. Miss Alemla Yaden
11. Ninguphei Ligessei
12. Mr. Bharat Bora
13. Mr. Chandradhwaj Singh

### **Responsibilities for Mizoram & Nagaland Campuses :**

Apart from its normal responsibilities the Department lends assistance to the English faculty at Kohima and Aizawl in the effective implementation of the teaching programme. In September this year, Prof. S. Homchaudhuri went to Aizawl and joined the faculty there to complete a course for the 3rd Semester students.

### **Seminars and Workshops**

Dr. M. Waseem attended a Seminar on Indo-Anglian Fiction held at Gaya, Bihar where he read a paper.

Prof D.P. Singh and S. Homchaudhuri were invited to a Workshop organised for language teachers at Aizawl in March, 1983, delivered talks on the teaching of language and literature.

### **Visiting Lecturer**

Prof. Naresh Chandra, formerly of Lucknow University, delivered a talk on the Renaissance and Milton.

### **Educational Excursions**

Dr E.N. Lall and Miss Ena Nicol led a group of 25 students on a study tour in the course of which they visited the U.S.I.S. Library in Calcutta and the A.S.R.C. in Hyderabad. In Bombay they met and had discussions with Prof. Nissim Ezekiel, the eminent Indo-Anglian poet and critic.

### Positioning of old students

A very substantial number of old students are already well-placed in various spheres of life or are successfully pursuing higher studies elsewhere. Just a few of such students are mentioned below :

1. Ajoyendra Pyial — in the IAS
2. Emi Shitiri — —do—
3. Janet Pugh just completed a postgraduate programme at Cambridge.
4. Jona Guha Thakurta — at the University of Texas, USA.
5. Imti Ao Probationary Officer in the State Bank of India.
6. John Joy — Lecturer, in St. Anthony's College.
7. Father Cyriac — —do—
8. Ananya Guha — Lecturer in St. Edmund's College.
9. Moon Moon Majumdar — Lecturer in St. Mary's College
10. Nabonita Ganguly — Lecturer, University Department of English.
11. Margaret Zama — Lecturer, University Department of English, Aizawl
12. Ramingthangi — —do—

The Department of English at Kohima was inaugurated on September 8, 1979 by Dr A.K. Dhan, the then Vice-Chancellor.

## Examination Results

Two batches of students have completed M.A. English course and have obtained M.A. Degrees. The results of the third batch which has completed all four semesters are, however, expected soon. There were 7 students in the last batch.

## Study Tour

In December, 1982, students went on a student tour to Calcutta, Hyderabad, Bombay, Bangalore and Delhi with the students of Department of Education.

## Research Activities

Prof. (Mrs) P N. Das ; presented a paper on "Shakespeare" in the All India Shakespeare Seminar held in Mysore University

Dr K. C. Joseph ; i) submitted his Ph. D. thesis "Graham Greene : the Novelist" to NEHU under the guidance of Prof. D.P. Singh, Head, Department of English, NEHU, Shillong.

ii) Working on R.K. Narayan and Commonwealth Literature.

## Mizoram Campus (Aizawl)

The Department of English came to existence on 19th November, 1979. Ever since, the Department is putting on its efforts in order to achieve the aims and objectives of NEHU particularly promoting higher education in the Union Territory of Mizoram. The Department is four years old now. The Department is well aware of its responsibility towards the promotion of teaching the English and Literature in the State besides meeting the aspirations of young people for higher education. In the 1979-81 batch, two students

secured "B" grade while in the 1980-82 batch, three students passed in the Second Class. The Department of English in this Campus is part of the Department of English at Shillong. The only collaboration the Department had was with the parent Department. Prof. Hom Chaudhuri from Shillong came in September, 1983 and delivered a series of lectures on 'Classical Tragedy' to the students of the Campus.

The Department has been experienced that the young aspirants for higher education particularly in English Literature and Language have responded enthusiastically to the programmes of the Department. In order to cope with the initial difficulty the students confront in the subject, some innovative remedial courses could be evolved. Besides, the regular teaching programme, the Department is looking forward to organising refreshers' courses for college and high school teachers. For this, the Department needs to be equipped with a language laboratory and strengthening of the faculty.

The Department hopes to be on a firm footing in near future and the areas of activities will expand with a goal to facilitate and promote the teaching of English at every level in Mizoram.

The Department is getting fresh impetus after the joining of Prof. D.P. Singh, Head of the Department along with his official position as Pro-Vice-Chancellor of the Campus. It is expected that the Department will start the research programme soon. At present, Mr. K.C. Baral, a Lecturer of the Department is engaged in research work under the supervision of Prof. D.P. Singh.

## 2. DEPARTMENT OF KHASI

The Department of Khasi was formally inaugurated on the 29th September, 1981, to provide scope for indepth study of Khasi Language and Literature and to highlight the importance of Khasi art and culture. In that year, the Department started with one Professor. In 1982 one Reader and one Lecturer were appointed, and in 1983, another Lecturer was appointed. The sanctioned strength is four, and all the four teachers were in position during the academic year 1982-83.

Fifty five (55) students were admitted in 1981, and 38 appeared the semester-end examination in 1983, out of which 35 passed; 7 in the First Division and 29 in the Second Division. On the whole, the performance of students of the first batch was satisfactory. In 1983, 26 students were admitted to the first semester; and 51% cleared all papers in the examination, the remaining 49% will have to repeat the papers in which they failed. In the meantime, the third batch of students was admitted in September this year. The response to lectures delivered and their performance in the tests/assignments is very encouraging.

### Students Intake

Year	Male	Female	Total	ST
1982-83 Semester I & II	16	32	48	48
Semester III & IV	28	48	76	76
1983 Semester I (September)	8	13	21	21
<b>Total</b>	<b>52</b>	<b>93</b>	<b>145</b>	<b>145</b>

Two college teachers and one Lecturer of the Department have registered for Ph. D. in Khasi Literature.

These are :

1. Mr. E.M. Sohkhlet, Principal, Synod College.
2. Mr. Sondar S. Majaw, Lecturer, Synod College.
3. Mr. Bevan L. Swer, Lecturer, Department of Khasi, NEHU.

Three of the former students are now Lecturers in Khasi as indicated below :

1. Mr. Ambrose B.M. Roy — Sankardev College, Shillong.
2. Miss Patricia Syiem — St. Anthony's College, Shillong.
3. Miss Cordelia Pariat — Synod College, Shillong.

Due to the shortage of staff, the teaching programme was conducted with the help of teachers from the Department of English and colleges. In 1983 only one Reader from the Department of English and one guest Lecturer from Synod College have been involved in the programme.

The Department organised a seminar in September, 1982 which was relevant to the course of teaching at the postgraduate level. The outcome of the seminar was better appreciation of the difficulty of students who had no honours to cope with the standard of teaching at M.A. level ; and the adjustment to be made by teachers, especially in the first semester classes.

### **Publications**

#### **Dr. H.W. Sten**

- a) Revised edition of "Ka Samla Nongkyndong", a fiction.
- b) "Shaphang ka Novel", a critical analysis of the art of fiction.
- c) "Ka Mahadei", a Tragedy.

#### **Mr. B.L. Swer**

- a) Revised edition of "Katto Katne Shaphang ka Sonnet."

## 1. DEPARTMENT OF ECONOMICS (Shillong)

The Department of Economics, as a constituent unit of the School of Social Sciences, North-Eastern Hill University, started functioning from October, 1974.

The courses of study and research in the Department are designed to train the students and research scholars 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 the society and to the analysis of current economic problems of the region as well as of the nation as a whole. In particular, through its teaching and research activities, the Department aims at promoting the intellectual, economic and social advancement of the people of the hill areas of the North-Eastern Region. At present, a course on the "Economy of North-Eastern Region of India" is offered as a compulsory paper.

### Students Intake

	Male	Female	Total	of which	
				SC	ST
M.A. Semester I & II	30	18	48	6	26
Semester III & IV	33	12	45	4	30
M. Phil	2	1	3		
Ph. D.	5	1	6		3
<b>Mizoram Campus (Aizawl)</b>					
Semester I & II	16	3	19		
Semester III & IV	2	1		3	

### Achievement of the Department

The Department has now achieved to a significant extent, its objectives in promoting the intellectual, economic and social advancement of the people of the hill areas of this region. At present, several former students, of the Department have succeeded in examinations for All India Services,

Nationalised Banks and other Corporate Bodies. Some are teaching in affiliated colleges of this and other Universities of the region, thus fulfilling the right manpower needs to the area.

In the 1982 session, 45 students were admitted to the programme, 34 candidates belonged to the SC/ST category and the break-up of the ST/SC candidates of the different States was 14 from Meghalaya, 10 from Nagaland, 6 from Mizoram and the remaining 8 from others.

Of the 36 candidates who appeared in 1983, 4th semester examination, 13 including seven ST candidates passed with Second Class and another fifteen, including nine ST/SC candidates obtained simple pass.

#### Research activities of the Department

Sr. No.	Research projects completed 1982-83	Sponsoring Agency	Project Leader	Date of Sanction	Total quality
1.	2	3	4	5	6
1	Poverty, Unemployment & Development Policy in N.E. Region Phase-I.	ICSSR	Dr S.N. Guha Thakurta	Sept. 1978	Rs 19,200
2.	Tribal Mode of Production (Meghalaya) in Transition.	ICSSR	Dr. T. Mathew & M.K.S Nair	1978	Rs 50,000

No new project was taken up in the Department during 1982-83.

#### Publication of the Faculty Members

1. Dr K. Bez, "An Introduction to Input-Output Techniques" (National Bank Trust-1983).

## Visiting Professors

1. Prof. N. Rath, Director, Gokhale Institute of Politics & Economics, Pune delivered two lectures, "Poverty & Unemployment in Rural India" "Agricultural Prices & Terms of Trades" on March 14-16, 1983.
2. Prof. Biplab Das Gupta, Calcutta University, lectured on "Some Aspects of Rural Economics" on June 26, 1983.

## Departmental Organisation

The 'Fraternity Club', an organisation of the students of the Department was quite active in organising debates, seminars, symposia, etc. The Club organised a week long programme in April, 1983 in which students participated in various co-curricular as well as extra-curricular activities like extempore speeches, debates, symposia, games and sports, music, etc. Mr. E.D. Thomas is the staff adviser of the Club. Through its academic and other activities of it not only enriched the students intellectual faculty of the students but also inculcated a sense of discipline among them.

## Position of the Ex-students

Among those who passed out from the Department in 1982-83 examinations, the following are reported to have been working in various Offices and Institutions in different capacities.

1. Mr. E. Nongbri—Lecturer, St. Edmund's College, Shillong.
2. Mr. T. Dkhar — Meghalaya Civil Service.
3. Miss Manjusree Goswami—Home Science Instructor, ICAR.
4. Mr. J. Lungdhim—Probationary Officer, New Bank of India.
5. Mr. Don Kuper Roy—Lecturer, Synod College Shillong.

6. Mr. Malsawmdawngliana—Lecturer, Hnahthial College, Mizoram.
7. Mr. Vilepral—Statistic Officer, Nagaland.

### **Mizoram Campus (Aizawl)**

As a constituent unit of the University and the School of Social Sciences in particular the Department of Economics at Aizawl started functioning in October, 1979.

The courses of study and research of the Department have been designed similar to that of the Department at Shillong. The objectives are also the same, viz., to train up students in the theoretical application of Economics to the particular needs of the region. With these objectives, a course of North-Eastern Economy is taught as the compulsory subject. The Department has achieved to a significant extent its primary objectives. Firstly, it has successfully created a strong awareness among the students and teaching faculty the need for indepth specialised studies relating to the various economic problems of the region particularly Mizoram. Secondly, students of this Department are working in various responsible capacities in the College and Government Departments in Mizoram.

Students of this Department undertook a successful study tour during December, 1982-January 1983, visiting different Universities and Research Institutes in Calcutta and Delhi.

### **Research Activities/Seminars etc.**

Dr. S.N. Guhathakurta in collaboration with S.K. Ghosh and others, submitted the Project Report to the ICSSR entitled "Unemployment and Development Policy in N.E. Region, (Phase I)".

Dr. K.K. Upadhyaya attended the Indian Economic Association Conference held at Jabalpur from December 20-31, 1982 and presented a paper on "Relevance of Theories to Explain Balance of Payment—Deficits in India." He also attended the Annual Conference of the Indian Society of Labour Economics held at Chandigarh from January 17-19, 1983 and presented a paper on "The High Wage—High Unemployment Connection in India: An Exploration of Philips Curve."

The Department organised a Refreshers' Course in "Quantitative Techniques and Advanced Economic Theory" in September, 1983. Fourteen teachers from different affiliated colleges in Mizoram attended the course.

## 2. DEPARTMENT OF COMMERCE (Kohima)

The Post-Graduate Department of Commerce started functioning at Nagaland Campus (Kohima) from the academic session 1980-1981. The thrust area of this department is to equip students with such knowledge and skill as to enable them to contribute to economic and commercial progress of the North Eastern Region. Special emphasis is given in the curriculum to orient students to start small scale enterprise in the agro-based, forest resource-based, and mineral-based industries. Establishment and management of small enterprises; improved skill in personnel management and industrial relations are particularly stressed at the M.-Com programme.

### Student Intake

M. Com	Semester	Male	Female	Total	Of which	
					SC	ST
II	II	12	1	13		10
IV	IV	11	1	12		6

### Examination Result

Upto the end of June 1983, two batches of students have completed the M. Com Course, appeared at the end-semester examination, the M Com Degree.

In the end semester examination held in December 1982 eight students appeared and all of them passed. In the end semester examination held in June, 1983, thirteen candidates appeared and eleven of them passed the M. Com examination. One obtained First Division.

### Visiting Professor

In the academic session, ending in June 1983, Dr. B.M. Agrawal of the Department of Accounting and Business

Statistics, University of Rajasthan came as Visiting Professor for a period of one and half months. He taught courses in "Management Accounting" to the 2nd semester and "Cost Accounting" to the 4th semester students.

### **Conference**

Prof. S.K. Das, delivered a Lecture on Business Finance at a Workshop for Entrepreneurs organised by the Small Industrial Service Institute in February 1983. Dr. B.K. Tandon, Reader, delivered a talk on "Personell Management."

### **Study Tour**

Mr. T. Vihientu, Lecturer, led a group of 20 students for study tour to Calcutta and Jamshedpur. They visited important industrial undertakings located in these cities, and made indepth study in the Operations and Accounts Divisions of the Tata Iron and Steel Company (TISCO)

### 3. DEPARTMENT OF SOCIOLOGY

The Department of Sociology and Anthropology started its teaching and research programmes in 1976.

The academic year 1982-1983 initiated some positive steps for the department. Dr. M.N. Karna, Reader in the department was promoted to professorship. Dr. V. Xaxa, Lecturer, who had gone to France for the post-doctoral work sponsored by the I.C.S.S.R. Delhi came back to the department. Dr. A.C. Sinha was sponsored by the U.G.C. New Delhi for source material consultation in various libraries in U.K. He was invited by the Department of Social Anthropology, University of Cambridge as a visiting faculty during the Lent Term, January-March, 1983. He was associated with running of the two courses and gave seminars in this department. Dr. Sinha was also invited to give a series of lectures in the Department of Ethnology, School of Comparative Sociology, University of Paris, France in April, 1983.

With the introduction of Sociology at the Pachhunga University College, Aizawl Mizoram a beginning was made in teaching of Sociology at the undergraduate level (B.A. pass). Two ex-students of this department were appointed lecturers for this course.

The Department of Sociology at the moment, has a staff strength of five teachers and an administrative staff of four. Its two classes—M.A. final and previous have a total strength of 50 students. M. Phil programmes which has been going on since late 1976 is being vigorously pursued by 12 research students. The Ph. D programme with 5 students is in progress. One faculty member has registered for Ph.D. of the department. This year three M. Phil dissertations were approved for the award of the degree and two more are waiting the results of their

dissertations. Another three students are in the process of finalising their dissertations.

1. The objectives of the department are as follows:

To advance and disseminate knowledge about the Social aspects of Man in general and North-Eastern Hill States in particular. This is sought to be achieved through two types of related activities.

(a) Post-graduate training programme in various branches of Sociology and (b) Research Programme relevant to the developmental needs of the North-Eastern Region.

2. To understand Social problems of the people of North Eastern Hill Region through applied problem, oriented research and to disseminate the social research and to disseminate the social researches to the policy makers and administrators.

3. To stimulate inter-disciplinary interaction between Scholars interested in the problems of the frontiers of different "discipline" and "problem" areas.

4. To make the discipline of Sociology to grow at the undergraduate levels.

5. To participate and encourage inter-institutional activities for the growth of faculty and help them to strengthen the linkages between Sociologists and other Social Scientists and to provide a link between the planners and administrators actually engaged in solving social problems of the country in general and the N.E. region in particular.

### **Students Intake**

The table below gives a resume of the students strength in the Department:

	Male	Female	Total	Of which	
				SC	ST
I & II Semesters	17	14	31	22	
III & IV Semesters	15	10	25	20	
M. Phil	7	5	12	7	
Ph. D	5	—	5	3	

### Academic thrust of the department

Of late the societies in North East have been under going transformation at various levels either because of their own internal forces or because of both. New ideas have also emerged in the minds of official planners as well as intellectuals on their preception of these societies after India's independence, which is different from the preception of these policies of the colonial rulers. Keeping these points in mind, the department of Sociology will like to develop research and instructional excellence in the broad area of *Social change* with emphasis on :

- a. Emerging inequality
- b. Political dynamics and
- c. Ethnic relations.

### Participation in Regional development

The Department proposes to participate actively in the regional development activities through the following activities :

a. By developing standards of teaching at the college and school levels through teacher training programmes, as and when the strength and expertise of the department has grown to undertake this challenging work, and

b. By adopting villages where the students of the Department could be engaged in analysis of social and economic conditions and wherever possible in engaging in action programmes around identified problems of the villagers.

c. By taking up applied research projects on various problems of the region.

#### Ph. D. Programme

Name	Topic	Supervisor
1. Mr. Nikhlesh Kumar	The Medical Profession	Prof. G. S. Aurora Dr A.C. Sinha
2. Mr. Lanu Aier	Contemporary Naga Social Formation & Ethnic Identity: A case of development or decay.	Dr A.C. Sinha
3. Mr. A. Lanunung-sang Ao	Integrated Rural Development in Nagaland: A case study.	Dr A.C. Sinha
4. Mr. R. Lalthingliana	Some aspects of Occupation Mobility among the Mizo in Shillong.	Dr M.N. Karna
5. Mr. B.N. Mishra	Agrarian Structure & Peasant Struggle in Orissa an exploratory analysis.	Dr M.N. Karna

#### M. Phil Programme

1. Mr. Vanupa Zathang	Energy Sources in N.E. India: Their Socio-economic Implications to the tribal society.	Dr A.C. Sinha
2. Mr. Sarita Goenka	Social movement-Towards a model social analysis (submitted).	Dr A.P. Sinha

- |                               |                                                                                                                             |                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------|
| 3. Mr. N. Irabot Singh        | The Second Sex-A study of Meitei women.                                                                                     | Dr A.P. Sinha   |
| 4. Mrs. I.M. Syiem            | The changing Family structure in Meghalaya                                                                                  | Dr M.N. Karna   |
| 5. Mr. Lalliankima            | Emerging patterns of social inequality among the Mizo inhabitants of Madanriting locality. Shillong (An explorative study). | Dr C. Nunthara  |
| 6. Mrs. Saifun Nessa          | The Assamese Muslim Society. A case of Infra-inter Group relationship.                                                      | Dr A.C. Sinha   |
| 7. Mrs. D.M. Changkija        | Social organisation of agriculture among the Nagas; A case study.                                                           | Dr. M.K. Karna  |
| 8. Mr. Animesh Bhatta charjee | Resource appropriation and authority system among the Wanchoos of Arunachal Pradesh.                                        | Dr. A.C. Sinha  |
| 9. Mr. T M. Kom               | Land ownership among the Koms Manipur.                                                                                      | Dr. C. Nunthara |
| 10. Mrs. Shymali Dutta        | Working women in Shillong.                                                                                                  | Dr. C. Nunthara |

### Publications

1. A.C. Sinha, "Ethnicity Isularity and Participative politics in Sikkim, Political Science Review" Vol. XXI (4)
2. A.C. Sinha, "Cultural Zones and Frontiers in the Himalayas" in the Proceeding of the Seminar on Himalayan Studies, (ed) Vidarthi, L.P., Concept Publishing House, Delhi, 1982.

### Seminar/Conferences

3. Contributed a paper "On Ethnicity and Development Strategy in Bhutan" in the International Symposium on the problems of under-privileged communities of Third World Countries, held in New Delhi on 2-8 October, 1982.
4. Contributed a paper "Ecology and Shrines in the Western Bhutan" in the National Workshop on Economy and Religion in Himalayas" organised by the Centre for Himalayan Studies, R U. at Dehradun on 10-12 October, 1982.
5. Was invited to give seminar on "Emerging Oligarchy and Frontier Management in Bhutan" in the Department of Social Anthropology, University of Cambridge, U.K., on 4 March, 1983.
6. Was invited to give the following talks in the Laboratoire D' Ethnologie, Et De Sociologie Comparative, University de Paris, Nanterre.

"Frontier Feudalism and State Formation in Sikkim"—  
10 April, 1983.

"Nepalese Identity and Resource Appropriation in N.E. India", on 11 April, 1983.

### Research Project

7. Submitted the report on the project "Bhutan" From Theocracy to an Emerging Nation State" to the ICSSR, New Delhi.
8. Was sanctioned the following research projects under the scheme of Himalayan Eco-system, NEHU: "Study of the selected communities as Ecological systems of N.E. Region." Study of Towns as Ecological systems, and a Study of Linear Settlement in the Hill Areas of N.E. India.

#### 4. DEPARTMENT OF POLITICAL SCIENCE

The Department of Political Science started functioning on 10th September, 1974 with 35 students. In the academic year 1982-83, the Department had on its roll about 80 students, both in the M.A. (Previous) and M.A. (Final) year classes. Most of the students are from the N.E. Region of India.

The Department has on its roll 15 (fifteen) scholars who are involved in the research programmes. Most of them are working on topics having a bearing on the problems of North Eastern Region. The Department commenced a regular M. Phil programme from the academic year 1979-80 and M.Phil (Special) programme for affiliated colleges teachers from April, 1983.

##### Students Intake

M.A.	Male	Female	Total	ST
I & II Semesters	25	7	32	28
III & IV Semesters	28	10	38	36

##### M.Phil and Ph.D.

M. Phil (NEHU Fellowship)	—	3
(Eco-Development)	—	2
(Without Fellowship)	—	3
M. Phil (Special)	—	5
Ph.D. (with Fellowship)	—	1
(Without Fellowship)	—	2

Two M. Phil students of this Department have recently (June 1983) have qualified for the award of M. Phil Degrees.

Name	Supervisor
1. Miss Yashmin Ahmed	Dr R.L. Walli
2. Mr.L. Imnatemsu Ao	Prof. C.N. Bhalerao
3. Mr. S.H. Sithou	Dr B. Pakem

During the year the University awarded the Ph.D. Degree to Mr. Debashish Bhattacharjee under the supervision of Prof. C.N. Bhalerao.

### **Academic Activities**

The department organised to talk on "Polish Crisis" by Prof. A.K. Chandra of the India Institute of Management, Calcutta, on May 10, 1982.

2. The department organised a series of lectures on "Contemporary trends in Political Theory" by Prof. S.P. Verma of Rajasthan University in November 1982.

3. The department, in collaboration with the department of Economics NENU, organised a talk by Dr. Ashok Mitra, on "Centre-State Relations" on October 1982.

### **Publications**

#### **Prof. C.N. Bhalerao**

- Articles :
- i. "Need for a Rational System of Management in Government" *M.P. Cronicle*, 1st March, 1983.
  - ii. "Role of Jawaharlal Nehru in Nation Building". *The National Herald*, 27 May, 1983.
  - iii. Contributed an article (with Debasish Bhattacharjee) on "Some Problems of State Administration in India" to the volume being published in honour to Prof. A. Avasthi.

#### **Dr. B. Pakem :**

1. Edition a book on Shillong 1970-1980. Expecting to come out this year.

Articles : i. "The Task Ahead", in Bhattacharji, J.B. (ed.), Thakur, P., (ed.) India's North-East : A Multi Faceted View, Socio-Economic Forum for the North East (Tinsukia) 1982, pp. 178-186.

Book Reviews : i. Mizoram Unrest—A Study in Politicization of Culture", by B.B. Goswami, Aalekh Publishers, (Jaipur), 1979 in the Journal of North-East India Council for Social Science Research, Shillong, Vol. VI, No. I, April 1982, pp.39-40.

ii. "Tribal Women in India", by the Indian Anthropological Society (Calcutta), 1978, in the Journal of North-East India Council for Social Science Research (Shillong) Vol. VI. No. II October 1982, pp, 40-42.

**Mrs. R.  
Borgohain**

i. "The Indian National Congress," (International Publishing House, New Delhi, January 1983).

**Mr. L.S.  
Gassah**

i. Research paper on "Traditional Leadership in Jaintia Hills" published in the Journal of North-East India Council for Social Science Research, Vol. VI. No. II, October 1982, (Shillong) pp. 17-22.

## 5. DEPARTMENT OF PHILOSOPHY

The department of Philosophy, a unit of the School of Social Sciences, came into existence in 1974. The same year it started its M.A. programme. Only in 1979, the M. Phil programme was introduced in the department.

The objective of the department has been to develop the logical and analytical ability of the students to critically reflect on various issues that confront them. 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 phenomenon. However, the general direction of the department has been to give, both in teaching and research special attention to such areas of philosophical thought as would facilitate the achievement of an authentic awareness among the students with regard to their own culture and tradition in broader context of what is usually called Indian History and Culture. In the course of time, as the department grows and when more students from the region are engaged in research it is hoped that it will become a source of genuine cultural regeneration in the country in general and the region in particular. With this aim in view the department has identified the following as the core areas.

1. Logic
2. Western Philosophy, including contemporary analytical Philosophy
3. Indian Philosophy
4. Social Philosophy, including philosophy of M.K. Gandhi.
5. Moral Philosophy
6. Philosophy of religion.

**Student Intake**

M.A.	Male	Female	Total	S.C.	S. T.
Semester I	16	33	49	Nil	33
Semester II					
Semester III	16	18	34	1	13
Semester IV					
M. Phil.	9	3	12	Nil	3
Ph. D.	6	2	8	Nil	2

Majority of the students in the M.A. Programme are from various S.T. Community of the North-Eastern Region. Majority of them usually do not have Philosophy at the B.A. stage yet some of them do excellently well at M.A. and M. Phil stage. Their response to various academic programmes of the department has been very encouraging. During these years two tribal students have topped the list of successful candidates in the M.A. examination.

**Positioning of Ex-students**

The following is the list of students who have done well in the M.A. examination in different years.

1. Tapan Senapati—I.A.S.
2. Dr. Scephali Panigrahi—Lecturer in Lady Keane College.
3. Archana Barua—Lecturer in St. Anthony College
4. Dr. Anju Joshi—Pool Officer
5. Begum Bilkia Banu—Lecturer in St. Mary's College,
6. S. M. Paokai—Lecturer in D.M. College, Manipur.
7. Debjani Tarfder—Lecturer in Tripura
8. Sipra Sarbanjana—Lecturer, Mendipathar College
9. Dr. Bina Mohanta—Lecturer in Assam.
10. Samuel Roy Lyndem—Lecturer, U.C. College
11. B. Buam—Lecturer, Jowai Government College

12. L. T. Sailo—Lecturer, Pachhunga University College, Aizawl
13. Asher Daring—Lecturer, Jowai Government College
14. Depaii Chakravarty—Lecturer, Shillong College.
15. Ranjit Dev—Lecturer, Shillong College
16. Imchen Yanger—Lecturer, Mokokchung College
17. Ghansyan Singh—Research Scholar, Poona University
18. Pau Ken—(U.S.A. for higher studies)
19. Vanlalnghaka—Research Scholar, I.I.T. Kanpur

### **Conference and Seminars**

During the years under report the department organized one refresher course for college teachers as well as a National Seminar on Kant. The objective of the seminar was to acquaint the college teachers with the latest techniques of philosophical analysis and that of the seminar was to refresh their knowledge on Kant. A large number of college teachers participated both in the Refresher's course and the seminar. The participation of tribal teachers both in the Refreshers course and the seminar was very encouraging.

### **Research Activities of the Department**

The Department has relatively a strong research base. All the teachers in the department apart from supervising M. Phil and Ph. D. work of students are carrying on their individual research, the findings of which are being published in different professional journals from time to time. The researches undertaken in the department are designed for intellectual and cultural advancement of the tribals in the region.

### **Visiting Professors/Experts**

	Name	Topic	Date
1.	Dr. S. Sunder Rajan Professor of Philosophy Poona University	Hermenutics	23.6.82

- |    |                                                               |                                      |         |
|----|---------------------------------------------------------------|--------------------------------------|---------|
| 2. | Dr. S. N. Mohajan<br>Professor of Philosophy<br>I.I.T. Kanpur | Indian Philosophy                    | 13.6.83 |
| 3. | Dr. Lila Dube                                                 | Symbolism of Biological Reproduction | 9.5.83  |
| 4. | Dr. D Chakravarty                                             | Philosophy of Homeopathic Medicine   | 20.5.83 |
| 5. | Dr. A. Das Gupta                                              | Limits of Formal Logic               | 21.6.83 |

Three M. Ed students of the 1st Batch are Instructors at the Teachers' Training Institute, one is a Social Welfare Officer and two students of the Second Batch have joined Mizoram Institute of Education as lecturers. Further, a number of them are Headmasters/Principals of the Local High Schools and most are High School teachers.

### Research Activities

(a) M. Ed Dissertations :

Completed : Twenty Eight (28)

On-Going : Fifteen (15)

The studies carried on in the department are focussed mainly on the following three major areas of Education in Mizoram.

(i) **Science and Mathematics Education**

(No. of studies undertaken : 5)

Researches are mainly to analyse the factors affecting achievement science and mathematics among high school and college students in Mizoram - cognitive, personality socio-cultural, organizational and administrative factors are studied.

(ii) **Education and Social Change**

Impact of education on Social attitudes in Mizoram, Socio-cultural context of Modernity in Mizoram, Mass Media Impact on the attitude of Mizos and Academic Achievement among the school students.

**(iii) Development of Education in Mizoram**

Investigation into the indigeneous system of Education in Mizoram, progress of School Education (Elementary, Secondary and Tertiary Levels) during the British Period (1894-1947), Post independent Mizoram (1947-72) and in the Union Territory of Mizoram (1972-82). Also study on the development of school administration in Mizoram and Student Welfare Activities in Mizoram.

**(b) Scale and Tests Constructed in the Department**

(i) Modernity Attitude Scale Five Point, 80-items.

Like-type forcing scale to measure the social attitudes of Mizos:

(a) Attitude towards Religion

(b) Attitude towards Family

(c) Attitude towards Marriage

(d) Attitude to Status of Women in Society, and

(e) Attitude towards Education

(ii) Socio-Economic Status Scale (SES)

(iii) Mass Media Index

(iv) Achievement Test in Secondary School Science

(v) Achievement Test in Secondary School Mathematics.

The department has collaborated with the State, Council of Educational Research and Training (SCERT) Aizawl in conducting workshops for the preparation of curriculum material Teaching Packages and training of teachers for the population Education Programme to be implemented in Mizoram.

Two seminars on Comprehensive access to Primary Education (CAPE) were conducted in the department during the academic session 1982-83. NCERT Professors Dr. Roka and Dr. Sahni addressed. The participants were the staff of the (SCERT) and the M. Ed students of the department.

### **Publications :**

1. Miri, M. "Linguistic situation in North-East India" (ed) with introduction, August, 1982.
2. Miri, M and Miri S. "University in Diversity" Indian Philosophical Quarterly.
3. Miri, M. Dubey, S.C. and Basilov, V.W., "Plurality of Religious Science and Secularism and Secularisation in Multi Religious Societies", (ed) I.C.S.S.R. Delhi, 1983 Vol. No. 4 July 1983
4. Malla, N.. "Is Non-Cooperation a Political Strategy?" Gandhi Marg, February 1983.
5. Mall, N "Gandhi's philosophy of Education and its relevance to contemporary India," Gandhi Marg, September 1983
6. Paul Jagat "The Jain concept of Language and Reality" Journal of Jain Vishva Bharati, Vol 8, No. 4-6, 1983
7. Paul Jagat "Vaidhata our Satyata Sarani (Hindi), Paramarsha, Vol. 3, No. 4, 1982
- 8 Paul Jagat, "Nishidhamulka Tathya ki Avadhvana (Hindi) Paramarsha, Vol. 4, 1982
9. Paul Jagat, (forthcoming) "The Universality of Moral Principles" NEHU Journal of Social Science. October 1983
- 10 Daniel, S.C. (forthcoming) "Hume's Theory of Self Identity-A Reconstruction," proceedings of Indian Philosophical congress.

### **Departmental Organisation**

The department organizes two weekly seminars in the department, one for the post-graduate students and the other for the M.Phil and Ph. D students

alongwith the teachers. In the post-graduate seminar, students are required to present papers by turn and the entire schedule of the seminar is notified in the beginning of each semester. In the Research Scholars' seminar either a teacher or a research scholar presents a paper. These seminars have been very helpful to students.

The department also organized essay and debate competitions for the students. Study tour is an annual activity of the department. These activities have gone a long way in instilling a sense of discipline among the students.

## DEPARTMENT OF HISTORY

The department of History since its inception in October 1974, has been engaged in post-graduate teaching and research programmes. The objectives of the Department have been to give instruction to the M.A. students in the cultural, social, economic and political history of peoples of India in general and North Eastern India in particular. In addition a number of courses on selected countries have also been offered. As in the previous years the emphasis has been on the history and culture of North Eastern India as is evident from the introduction of a number of compulsory and optional courses on North Eastern India in the M.A. programme. This is in keeping with the objectives of the University. The Faculty of the Department is strengthened by the appointment of a few more teachers specialising in the history and culture of North Eastern India. It is adequately strengthened to carry out research on various themes on this region and in fact a number of candidates have been awarded M. Phil degrees whose themes of research were essentially related to the history and culture of North Eastern India. The Department record with a sense of satisfaction that a large number of its students for the year were drawn from the three constituents of the University.

Over the years the intake of students into M.A. has been steadily increasing as can be seen from the tables given below :—

Break-up of students admitted in 1981-82

	ST		SC		G		TOTAL
	M	F	M	F	M	F	
M.A.	31	16	—	1	2	1	51

Out of the 51 students admitted in 1981-82 session 44 students have successfully completed the programme. The result is shown below :

ST		SC		C		Ist Class		IInd Class		TOTAL
M	F	M	F	M	F	M	F	M	F	Ist Class
27	14		1	1	1	—	1	27	13	1

#### Intake of students in 1982-83

PROGRAMME	MALE	FEMALE	TOTAL	O SC	WHICH ST
M.A.	42	15	57	—	52
M. Phil	10	4	14	—	9
Ph. D	—	1	1	—	—

#### Position of Ex-students

1. Ms Alpana Das : Administrative Officer  
National Insurance Company
2. Ms Susan Markof Laloo : Lecturer, Tura Government  
College, Tura
3. Mr Dingliana Darlong : Lecturer, Zuthaboto College  
Nagaland
4. Mr. V. Rengsi : Pfutero College, Nagaland
5. Mr. M. Akang : Gazetted Officer, Government  
of Nagaland
6. Mr Lalmaisa-wiba : Lecturer, U.C.C., Barapani
7. Mr. Prem Bahadur : Assistant Extension Officer,  
Government of Mizoram
8. Mr Fertgeron R Marak : Gazetted Officer, MIDU,  
Meghalaya
9. Ms Vinita Sangma : Part-Time Lecturer, Tura  
Government College, Tura
10. Ms Lecina S Sangma : Teacher, Public School, Tura

## RESEARCH ACTIVITIES OF THE DEPARTMENT

Dr. J.B. Bhattacharjee

1. Edited : *Proceedings of the North East India History Association, Third Session, Imphal 1982*
2. Papers : "Mirza Nathan's Kachar", *Social Research* Vol III. No. 2
3. The Historian of the Garos", *Journal of the North East India Council for Social Science Research*
4. "Tripuri State Formation in Tripura", *Proceedings of the North East India History Association, Third Session, Imphal 1982*
5. "In search of a conceptual frame for the study of the Garo Customary Laws" paper presented in a Seminar on "Customary Law" at Tura in November 1982 by the Department of Education, Government of Meghalaya.
6. "Folk-Lore and History in the context of Cachar Valley," paper presented in a Seminar on 'Folk Lore' organized by the NEICSSR at Shillong, February 1983

Dr. Milton S. Sangma

1. Work on American Baptist: A seminar paper read in Dibrugarh University and published in 1982
2. 'Beginning and Growth of Garo Literature' A Seminar paper published in the Proceedings of the History Association 1983

Mr. David R. Syiemlieh

1. "Colonialism and Syiemship Succession: A study of Cherra State (1901-1902)" paper presented in the Third Session of the North East India History Association, Imphal 1982

2. "The Khasi and Jaintia Hills : Backward Tract to Partially Excluded Area" Published in Social Research, Vol 2 No 3, 1982
3. "Colonialism and Syiemship Succession : A Study of Cherra State (1901-1902)" Proceedings of the North East India History Association, Third Session, Imphal 1982, Shillong 1983

Mr. Lal Rinawma

1. "Settlement Pattern of the Hmar in North East India". Proceedings of the North East India History Association, Third Session, Imphal Shillong 1983

## **OTHER ACTIVITIES OF THE DEPARTMENT**

1. The Department continued to be the Headquarters of the North East India History Association, Dr J.B. Bhattacharjee and Dr. Milton S. Sangma being re-elected as General Secretary and Treasurer respectively. Dr. Bhattacharjee, Dr. Sangma and Mr D R Syiemlieh attended the Third Session of the Association at Imphal in December 1982. Dr (Mrs) Helen Giri and Mr Syiemlieh were elected to the Executive Committee of the Association.

2. The Department organized a 10 day Workshop on General Foundation Course in February 1983 which was attended by about 80 teachers of the various faculties in the University and affiliated colleges and the Principals.

### **Visitors**

1. Dr Karunakar Gupta, Fellow, Netaji Institute of Asian Studies, Calcutta delivered a lecture on 'The India China Boundary Question' in Historical Perspective' in June 1982.

2. The Department has organized a lecture series by Prof. A. L. Basham, Australian National University, August 7 and 11, 1982 at State Central Library and Mayurbhanj Seminar Hall respectively on (1) "The Ancient Indian Drama and its Modern Survivals" (2) "The Popular Art of Modern Hinduism"

3. Prof. K. Mazumdar, Nagpur University has delivered a talk on "Studies in Tribal History" on September 17, 1982 in the Department.

## 7. DEPARTMENT OF ANTHROPOLOGY

In the year 1982-83 the faculty position was strengthened with the joining of two new faculty members. Some of the courses which could not be operationalized earlier were opened for students this year

The Department initiated two projects :- i) Survey of stages of economy and (ii) Study of selected communities as ecological system. The Department operationalized action on one of its area of academic thrust i.e., Ethnographic studies. Programme for preparation of themal-monographs based on comparative study was launched. The Department initiated re-study of the Apa Tani community, which was first studied about four decades ago. The programme was conducted through field work by the students.

### Students Intake :

M.A.	S.T.		S.C.		Others		M	F
	M	F	M	F	M	F		
Semester I	13	5	-	-	3	3	16	8
Semester II	5	8	-	-	3	5	8	13
Total :	18	13	-	-	6	8	24	21

### Conferences/Seminars, etc.

1. The Department organized JInd Verier Elwin Memorial Lectures which were delivered by Prof. S. C. Dube, National Fellow, ICSSR, New Delhi.

2. Dr. A. P. Sinha attended a Seminar on "Tribal Languages and Education" at the Central Institute of Hindi, Agra.

3. Dr. A. P. Sinha attended the International Symposium on Problems of Development of Underprivileged Communities of IIIrd World Countries (Suncom 1982) at Delhi and Co-chaired a Session : Problems and Pro pects of Education among Scheduled Castes.

4. Dr. A. P. Sinha delivered Lectures to participants at Training Course on "Development and Planning in North Eastern India". organized by Nagaland Government at Kohima.

5. Dr. I. J. S. Jaswal was invited to present a paper on 'Genetics of Human Skin Pigmentation' by the Fourth International Congress on Genetics to be held at New Delhi.

6. Dr. I. J. S. Jaswal attended and presented a paper on "Demogenetics of Apa Tani" in a Seminar on "Bio-cultural Variation" organized by the Department of Anthropology at Gauhati University.

7. Dr. I. J. S. Jaswal presided over the Inaugural Function of Seminar on Planning in North-Eastern India, organized by the NEICSSR, Shillong

8. Dr. I. J. S. Jaswal, delivered lectures on "The people and problems of North-Eastern India" to the Assam Civil Service trainees at a Training Course organized by the Government of Assam, at North Lakhimpur.

**Visitors :** 1. Dr. Sunil Mishra, Director, Audience Research, Government of India, Akashvani, New Delhi, delivered a series of lectures on "Social and Organization" and also participated in Seminars.

3. Prof. B. B. Chatterjee, Department of Psychology, Utkal University, Bhubaneshwar, delivered a series of Lectures on "Social Psychology" and on "Child Development".

4. Dr. B. C. Agarwal, Scientist, Space Application Centre, ISRO, Ahmedabad, delivered a series of lectures on "Research Designs" and Formative Research.

5. Dr. Sarat Bhowmik, Department of Sociology and Social Anthropology, North Bengal University, Siliguri, delivered a talk "Plantation as a social system".

6. Dr. A. K. Danda, Actg. Director, Anthropological Survey of India, Calcutta, delivered a lecture on "Role of Anthropologists in Human Affairs".

### **Publications**

**Dr. A. P. Sinha**

- (i) Growth of Khasi language in Linguistic Situation in North-East India ed. M. Miri, NEICSSR, Shillong.
- (ii) Models of Social Conflict, Indian Anthropologist (in press).

**Dr. I. J. S. Jaswal :**

- i) Anthropometry of the Apatani of Arunachal Pradesh, Human Science, 32 : 292-302 (1983).
- ii) Relative body size of Down Syndrome, Indian Journal of Paediatrics, 9 ; 24-32 (1983).
- (iii) Anthropometry of Mongols, Indian Anthropologist, 11 : 126-131, (1983).
- (iv) Mental retardation and Tribal Society, J.N.E. I.C.S.S.R. 7 : 29-35 (1983).
- (v) Skin pigmentation studies in India, Acts Anthropogenetics, 6 : 142-151 (1983).

**Dr. K. H. Bhat :**

- (i) A formal analysis of Lingayat Kinship Terminology. Bull. An S.I. XXIV : 24-49 (1975). Published in 1982.
- (ii) Folk medicine in Karnataka in Dravidian Encyclopaedia, Trivandrum (in Press).

## 1. DEPARTMENT OF EDUCATION

The Department of Education was established in the year 1976. It started offering the courses for the degree of M.Ed. The Department closed the M.Ed. course in 1982-83 session and in its place started the M.A. courses in Education. While the M.Ed. course involved the teaching programme for two Semesters only the M.A. course covers the teaching duration for four semesters.

### Students Intake

	Male	Female	Total	of Which	
				SC	ST
M. A. Semester-I	5	18	23	-	21
M. Phil (Special)	-	2	2	-	1
M. Phil regular continuing	2	2	4	-	3
Ph. D.	5	4	9	-	5

### Nagaland Campus

1981	12	13	25	-	25
1982	15	11	26	10	16

### Mizoram Campus

1981-82	2	3	5	-	4
1982-83	12	1	13	-	10

The Department admitted students for the M.A. Course for the first time in 1982-83. The number of students admitted was 23. All the 20 students who appeared in the first semester examination have successfully cleared all the courses. It include 19 ST candidates. While 3 students could not appear in the above examination.

Fresh batch for the regular M. Phil programme could not be started due to the constraints of the strength of teaching staff. But the previous batch of scholars continued to work on their dissertation work.

It may be highlighted here that the Department responded positively to the needs of the Lecturers in Education in the affiliate colleges of NEHU by starting the special M. Phil programme for college teachers. Two teachers have joined this programme and the first phase of their course work has started.

The Ph. D. programme continued with the students who had joined the programme earlier.

### **Publications**

- (i) Anand, C.L. & Padma, M.S., "Improving Teacher Education Curriculum", in Curriculum Development and Educational Technology selected readings, Osmania University, Hyderabad. (Sent for publication).
- (ii) Anand, C.L. & Padma, M.S., "Correlates of Achievement. A Trend Report" in the Third Survey of Research in Education, NCERT (Sent for publication).
- (iii) Mathew George, "Effect of Micro Teaching and Integration of Skills on Teaching Self-concept of Student-Teachers", Journal of Educational Research and Extension, Vol. 19, No. 3, January 1983, pp. 129-137. (iv) Methew George, "A Study of the Effect of Micro-teaching on Teacher Attitude of B. Ed. Trainees". The break-through SCERT Publications, Meghalaya, Shillong. pp. 1-9.

### **Visits and Lectures by eminent Scholars**

Dr. Arati Sen, Professor of Education, and Dean, School of Education, Kalyani University, addressed the students in July, 1983.

### **Participation in Seminars/Workshops**

- (i) Dr. P.P. Gokulanathan, Head of the Department, attended the annual seminar of the Association of Indian Universities for Continuing Education held at Suraj, December 26-28, 1982.

### **Nagaland Campus (Kohima)**

The M.A (Education) Course in the Department of Education, Nagaland Campus, Kohima, under the School of Education was inaugurated on 7th September, 1978 by Shri L.P. Singh, the then Governor of Nagaland to meet the long standing need of the State of Nagaland in particular and of the region in general. Since its inception, the course has been very popular with reference to North-East Region. Students from different States of this region are taking full advantage of this facility.

The objectives of the course are listed below :-

- (i) To provide in depth study in Education as a discipline.
- (ii) To specialise areas in Education which have direct relevance to life, discipline and background of this region. Wide spectrum of areas of specialisation are community education and rural development nonformal education, adult education, study of tribal society and culture, strategies for education in tribal areas, study of human behaviour, educational testing and experimental design, value education, population education, educational futurology, etc.
- (iii) To initiate students to undertake research on different problems of education with special reference to this region.

### **Conferences and Symposia organised by the Department**

1. On Gandhi Jayanti ( 2nd October, 1982 ) a symposium on "Gandhi Philosophy of Education" was held. On this occasion an exhibition on "Gandhian Thought" was also organised by the Department.

2. On Teacher's Day (5th Sept. 1983) a symposium on "Teacher and Moral Standards" was organised by the department.

3. A Brain's Trust session was conducted on 8.4. 1983.

4. A student from the department participated in the cultural Troup of the Universities of the country during winter vacation.

5. An Educational Tour was organised by the department in collaboration with the department of English, NEHU, Kohima from January 6th-30th 1983. Twenty students and one member of the faculty visited educational institutions at Calcutta, Hyderabad (Osmania University, Central Institute of English and Foreign Languages), Bangalore, Pune (Indian Institute of Education and University of Pune), Bombay (SNDT), University of Bombay, and University of Delhi. NCERT, NIEPA, CIE.

### Visiting Faculty

Dr. R. S. Pandey, Reader, Department of Education, Allahabad University, delivered a series of lectures on the courses; philosophy of Education and Educational Management in the first week of December 1982.

1. Dr. S. Marathe, Reader, department of English, NEHU, Kohima delivered a talk on "Education system in Canada" on 5. 11. 82.

2. Dr. N. Kezienou, department of Mental Health, Government of Nagaland delivered a talk on "Mental Health" on 20.11.82.

3. Shri A.K. Kindu, Asstt. Librarian, NEHU, Kohima delivered talk on "Role of Library in Research" on 13.11.82.

4. Shri M. P. Gupta Accountant General Nagaland, delivered a talk on "Mansrovar" coupled with block display and pictures taken during his visit to the place.

**Seminar and workshops attended****Prof. B. Das**

Attended a seminar on 'Tribal Education' at Bhubaneswar. Read a paper on 'Education and Social Change' at the conference of the Nagaland Teachers' Association.

Read a paper on 'Naga Culture in Transition' at the University College of Agriculture Medziphema

A paper on 'The princes Cesamassime' under Publication, in journal of the department of English, Utkal University.

**Dr. K.K. Sharma**

Dr. K.K. Sharma, R.K. Sharma & L.K. Sinha, "A case for Indian Philosophy of Education some issues" the Progress of Education Vol VII No. 4 Nov. 1982.

Acted as resource person in the "Orientation course on Educational Technology for Teacher Educators" held at the Regional College of Education, Bhubaneswar from 3rd to 8th February, 1983.

Attended "All India Science Teachers" Association conference from 10th to 12th Jan. 1983 at Hyderabad. Presided over the session on "Psychology in the class room".

**Mr. J.C. Soni**

- (i) Presented two papers in the workshop on "Effective Utilization of Educational Technology" for school teachers, organised under the auspices of Educational Technology Cell, Government of Nagaland, Kohima, from March 14 to 19, 1983.

### Mr. P.K. Gupta

Presented a paper on "Technology of Teaching" in the workshop on "Effective utilization of Educational Technology" for school teachers organised by the Educational Technology Cell, Govt. of Nagaland, Kohima, March 14 to 19, 1983.

### Mizoram Campus (Aizawl)

The department of Educational Research and Studies was established in the beginning of 1981 with the purpose of conducting courses and research leading to the qualitative and quantitative improvement at all levels of education, pre-primary to tertiary. The Department offers courses in Masters' Degree in Education (M Ed) and also has been approved as a centre to do doctoral work leading to Ph. D programme. The fifth batch (1983-84) with twenty two students on rolls is doing its first semester courses at present.

### Doctoral programme

Two students have been registered for Ph. D (a) Lalrinkimi :

"A study of Socio-educational correlates of Modernity in Mizoram.

(b) Varparhi Khiangte: 'Non-cognitive correlates of creativity among High School Children in Mizoram'.

### Positioning of Ex-students

The holders of the top three positions of the 1980-81 M. Ed batch are placed in the following posts.

- (i) Miss Lalrinkimi, Lecturer, Mizoram Institute of Education (B. Ed College), Aizawl.
- (ii) Mr. Budhi Raja, Academic Officer, Mizoram Board of School Education (MBSE), Aizawl.

- (iii) Mrs. Darch'ingpuii, Instructress, Teachers' Training Institute, Aizawl.  
Of the Second M. Ed Batch (1981-82)
- (i) Mr. Thahawla (Passed M. Ed in First Division is Assistant Controller of Examination in Mizoram Board Education.
- (ii) Mr. Lalduhsanga (First Division) is an Instructor at the Teachers' Training Institute, Aizawl.
- (iii) Mr. Lahiangiana (Second Division) is a lecturer in State Council of Educational Research & Training (SCERT), Aizawl.

### **Publications**

- (i) C. L. Anand and M A Sudhir, "Developing a Modernity Attitude Scale" Indian Educational Review, Vol XVII No. 3 July, 1982, P. P. 28-42
- (ii) M A. Sudhir and Lalrinkimi, "Non-Formal Education Programmes in Mizoram: Retrospect and Prospect" Journal of Indian Adult Education Association, Dec. 1982.
- (iii) M.A. Sudhir and Lalrinkimi, "Modernity in the Context of Education and Socio-cultural Factors: A Study of Social Attitudes in Mizoram", Journal of Social Psychology, (accepted for publication)

The department is still in its infant stage and there is paucity of qualified teachers as the three posts of Lecturers and one post of Reader are lying vacant. Notwithstanding, a number of studies analysing the courses of failure and under achievement in Science and Mathematics in Mizoram, Development of Education and Social Change in the under-developed tribal territory have been undertaken. Further, four M. Ed Batches have already completed their courses.

## DEPARTMENT OF GEOGRAPHY

Started in June, 1976, the Department of Geography in the School of Environmental Sciences is playing a key role in imparting teaching and research facilities to the graduates and post-graduates of this discipline. The main thrust of the Department is towards better understanding of the various environmental processes both physical and cultural that are of dynamic nature and are constantly working to shape the regional aspects of India as a whole and N.E. India in particular.

To highlight the geographical dimensions of the problems of development in the region, to fulfil the developmental needs and to carry out useful research, the M.A/ M. Sc. programme has been up-dated and modified giving special emphasis on different aspects of N.E. region. Further, the under-graduate programme was also upgraded in the light of the post-graduate programme. During the year Prof P. Dayal of Patna University joined the Department as Visiting Professor in May, 1983.

Two Ph. D. candidates - Mr. R. Sahu and Mr. N.P. Goel have submitted their thesis with successful results. Seven research scholars have completed the requirements of the M. Phil. programme examination and they are now engaged in their respective thesis.

### Students Intake

	S.T.		S.C.		Others		Total	
	M.	F.	M.	F.	M.	F.	M.	F.
1st Semester	10	-	2	-	4	2	16	2
3rd Semester	8	-	1	-	5	-	14	-
ii) M. Phil Programme								
1982-83	2	-	1	-	5	-	8	-
iii) Ph. D. 1982-83	2	-	-	-	1	-	3	-



**Rai R.K. and Ahmed, T.**

- (d) "Morphometric analysis of six selected small drainage basins : Meghalaya" accepted for publication in "transactions" Institute of Indian Geographers, Pune.

**Mahapatra, A C**

- (a) "The Regional Concept", submitted to man and Environment, Calcutta, (July, 1982).
- (b) "Land use pattern in a Naga village", Himalaya : man and Nature Vol. 12 No. 7, 1982, pp. 15-19
- (c) "Regional disparities in Social Infrastructure in Poland", submitted to Economic Papers, IGKR, SCPIS, Warsaw, Poland, (March, 1983).
- (d) The Population Problem : Dimensions and Perspectives (ed) General Foundation Series II, NEHU Publications, Shillong, June-July, 1983.
- (e) Participated in UNESCO Course at the Central School of Planning and Statistics, Warsaw, Poland under the Polish Govt. scholarship for a diploma in National Economic Planning from October, 1982 to March, 1983.

**Conference and Seminars**

Dr. R.K. Rai attended Cartographic seminar from 14th to 16th September, 1982 at Hyderabad. Dr. Rai also attended a seminar at Allahabad from 23rd to 25th July, 1982 and presented a paper.

Dr. R.K. Rai and Mr. P.G. Momin have given lectures on Geography and General studies to the students at the All India Services Pre-Examination Training Centre, NEHU Shillong.

The Department conducted a Refreshers Course for College Teachers from 24th May to 6th June, 1983.

**List of Faculty members**

1. Dr. R.K. Rai, M Sc. (Sagar) Ph. D (Sagar)  
Reader and Head, Specialization-Geomorphology,
2. Prof. P. Dayal, M.A. (Patna), Ph. D. London  
Visiting Professor, Specialization-Industrial,  
Economic and Population Geography.
3. Dr. A.C. Mohapatra, M A. (JNU), M. Phil (JNU), Ph. D.  
(NEHU) Reader, Specialization-Regional Planning &  
Economic Geography.
4. Dr. R. Gopalakrishnan, M.A. (Madras), M. Phil (JNU)  
Ph. D (JNU) Reader, Socialization-Political Geography.
5. Mr. A. Ahmed, M.A. (Aligarh), Ph. D (JNU) registered  
Lecturer, Specialization-Social & Historical Geography.
6. Mr. P.G. Momin, M.A. (JNU), M. Phil (NEHU) Lecturer  
Ad-hoc, Specialization-Cartography.

## 1. DEPARTMENT OF PHYSICS

The Department provides teaching and research in major areas of Physics. It also provides M. Sc, M. Phil and Ph. D programmes. Post doctoral research opportunities are also offered in the form of Research Associateships.

In the academic year 1982-83 15.3 students were admitted in the I semester M.Sc and 3 students in the M. Phil/Ph.D programme. A total of 5 students passed their M. Sc Examinations. The break up of student intake is as follows :

	SC. ST		SC. ST		Others		Total	
	M	F	M	F	M	F	M	F
<b>M. Sc</b>								
<b>Semester I</b>	2	1	—	—	5	4	7	5
<b>Semester II</b>	1	3	—	—	9	5	10	8
<b>M. Phil/Ph.D</b>	1	3	—	1	4	1	5	

Names of M. Phil/Ph.D Scholars on roll during 1982-83.

1. Betylda Jyrwa
2. G. Thakur
3. J. Blah
4. M. Sarkar
5. Phlisdamon Nongkynrih
6. R. Dewri
7. R. Bhattacharya
8. S. S. Khatri
9. T. Chakravorty
10. W. Basaiawmoit

*College teachers working part-time on their Ph. D Degree.*

Name of scholars who received fellowships in 1982-83  
All the 10 scholars listed above, except the college teachers, got fellowships.

Name of the Project	Sponsoring Agency	Investigator
A. 1) Resonance Raman Scattering and Fluorescence Studies on Some Molecular and Condensed systems.	DST	A.L. Verma/ Y.S. Jain
2) Spectroscopic Studies of Quantum Mechanical Tunnelling of Molecular Ions in Solids	DAE	A.L. Verma/ Y.S. Jain
B. 1) Study of Spinglasses	UGC Minor Research Project	P. Shukla
2) Study of Phase Transitions and the Nature of Low Temperature Phase in Disordered Magnetic systems	DAE	P. Shukla
C. 1) Lactics Dynamical Studies of some Crystal Hydrates	UGC	Y.S. Jain
2) IR absorption and Raman Scattering Study of Ferro-electrics	UGC	—do—
D. 1) Study of Fluctuations in Heavy Ions Reactions	UGC Minor Project	R. Singh
2) Trace Element Abalysis	DAE	R. Singh/ D.f. Khathing/ M.K. Chaudhuri
3) Study of cross-section Fluctuation in Heavy-ion Reaction.	CSIR	R. Singh

**Collaboration with the other Department Universities.**

1. Prof. A.L. Verma
  - (i) NRC Ottawa Canada
  - (ii) Physics Deptt., IIT Kanpur
2. Dr. P. Shukla
  - (i) Dr. T. J. Sluckin  
Maths. Deptt., University of Southampton, England
  - (ii) Dr. A.H. Nayar Physics Deptt.  
Quaid-i-Azam University  
Islamabad, Pakistan.
3. Dr. R. Singh
  - Professor W. Hering, Sektion Physik  
University of Munich, Munich, Germany.
4. Dr. K. Kumar
  - (i) Dr. S.P. Gupta, BITS, Pilani.
  - (ii) Dr. P.R. Carey, NRC Canada.
5. Dr. Y.S. Jain
  - Professor H.D. Bisal, IIT Kanpur

**Visitors to the Department**

1. Dr. P.K. Iyengar  
Director Physics Group  
BARC Bombay.
2. Dr. G. Venkataraman  
Principal Physicist  
Reactor Research Centre  
Kalpakam.
3. Dr. A. P. Roy  
Nuclear Physics Div.  
BARC Bombay.
4. Prof V. D. Gupta  
Lucknow University  
Lucknow.

5. Prof. P. T. Gupta  
I. I. T. Kanpur
6. Dr. S. S. Ramamurthy  
VEC Project. BARC Bombay,
7. Prof. S. N. Thakur  
BHU Varanasi

### Publications

- 1) Tunneling Motion of Dipolar Impurities in Alkali Halides ; The KI : No 2 system, S. S. Khatri and A L. Verma, J. Phys, C, Solid State Physics 16, 82157-64. (1983)
- 2) Infrared Absorption due to Pair Modes of the No 2 Ions doped in KI single crystals, S. S. Khatri and A.L. Verma, Physics Letters 95A, 191-93 (1983)
- 3) Molecular Field Theory of Nematics : Density Functional Approach : I Bulk Effects T. J. Sluckin and P. Shukla J. Phys. A 16, 1539 (1983).
- 4) Model of the Glass Transition and the Glassy State, P. Shukla, Z. Physik B. 52, 179 (1983).
- 5) Spinglass Behaviours in Eu, Sr<sub>2</sub>-S.: Calculation of Phase Diagram in the Mean Field Approximation, A.H. Nayyar and P. Shukla, Physical Status Solidi, 1983 (in Press)
- 6) "Statistical Analysis of the Elastic and Inelastic scattering of 12C+28S<sub>2</sub> and 16<sub>0</sub>+28 Si" R. Singh, Z. Physik A 311 (1983) 99.
- 7) Polarised Raman spectra of an oriented single crystal of barium nitrate monohydrate. O.P. Lamba, H.D. Bist and Y.S. Jain. Can. J. Chem 61, 608 (1983)
- 8) Laser Excited Raman and Infrared spectra of L.B. and r-Picilines O.P. Lamba, J.S. Parihar, H.D. Bist and Y.S. Jain Ind. J. Pure and Appli. Physics 21, 235 (1983).

**Publications in proceedings of Conferences and symposia :**

- 1) Localized Modes due to Triplet Clusters of the No 2 Ions in KI single crystals, S.S. Khatri and A.L. Verma, Nuclear Physics and Solid State Physics symposium Proceedings, (1982) (In print)
- 2) Phase Transitions in Insulators, A.L. Verma, invited talk at the DAE Physics Symposium 1982 (In Press)
- 3) Renormalization Group Theory of First Order Phase Transitions, J.A. Blah and P. Shukla, Nucl. Phys. and Solid State Phys. 25C (1982).
- 4) A Model of spinglass, P. Shukla and S. Singh Physics of Disordered Solids, ed. P. Shukla, Mittal Publications, Delhi (1982).
- 5) "Spin Alignment in  $^{12}\text{C} + ^{12}\text{C}$  Inelastic scattering" W. Tromlick, F. Krug, W. Dunnweber W. Hering, D. Konnerth, R. Singh and W. Trautmann, Proc International Conf. on Heavy Ion collisions II La. Ralida, Spain (1982) p. 297 ed. G. Madurga and M. Lozano.
- 6) "Scattering and Reactions of  $^{12}\text{C} + ^{14}\text{C}$ " D. Konnerth, K.G. Bernnanelt, K.A. Eberhand, R. Singh, W. Trautmann, and W. Trombik, Proc. Int. Conf. on Heavy ion Collisions II, La Ralida, Spain (1982) unpagged ed. G. Madurga and M. Lozano.
- 7) The hole of Inelastic Excitation in  $^{12}\text{C} - ^{14}\text{C}$ , D. Konnerth, W. Trombik, W. Trautmann, K.G. Bernhardt, K.A. Eberhard, R. Singh and A. Shrzalkowshi, Verh. DPG (VI) 17 (1982) 1249.
- 8) Measurement of Spin-Alignments in  $^{12}\text{C} + ^{12}\text{C}$  W. Trombik, W. Dunnweber, W. Hering, D. Konnerth, F. Kruz, R. Singh, W. Trautmann and K.A. Eberhard, Verh DPG (VI) 17 (1982) 1250.

- 9) Spin Alignment in  $^{12}\text{C}+^{12}\text{C}$  Inelastic Scattering W. Trombik, F. Kruz. W. Dunnweber, W. Hering, D. Könterff, R. Singh, W. Trautmann and D. Zeppenfeld, Proc. Int. Conf. on Nucleus Collision, Michigan (USA) Sept-Oct. (1982) Vol. P. 73.
- 10) "Determination of the Efficiency of Ge (Li) Detectors" R. Singh, JIEEC April (1983) Jordan Unpagged.
- 11) Infrared Intensity of Forbidden Modes: A Tool to investigate structural Distortion of Molecular units in crystals: Y.S. Jain and R. Bhattacharjee XIV National Seminar on Crystallography, I.I.T. Kharagpur, X-10 (1982).
- 12) Role of H atoms in Deciding the symmetry, structure and Dynamics of crystals containing complex such as  $\text{M}(\text{NH}_3)_6^+$  + Y.S. Jain, *Ibid* X-1 (1982).
- 13) Some structural Information about  $\text{C}_6\text{H}_7\text{O}_6$ ,  $\text{H}_2\text{O}$  from an Analysis of its IR and Raman Spectra Y.S. Jain, S. Mohan and G.P. Srivastava, Proc. Nucl. Phys. Solid State Phys. symp. 25C (1982).

#### Other Information

Prof. K.K. Gupta is continuing with the writing of his book on Nuclear Physics.

Prof. A.E. Verma has appointed a Member of the UGC Panel on Electronics & Instrumentation. He has also been appointed a Member of the UGC Committee for developing Lasers & Fibre Optics in the Country.

Dr. P. Shukla edited book, Physics of Disordered Solids. It has been published by Mittal Publications, Delhi (1982).

Dr. Kamal Kumar is preparing a book on experimental Physics (Electronics).

## 2. DEPARTMENT OF CHEMISTRY

### 2. DEPARTMENT OF CHEMISTRY

The department of Chemistry was established in 1976 as a constituent of the School of Physical Sciences. In order to contribute to the development of the intellectual and academic background of the people of the hill areas of the North East, which is the overall objective of the University as envisaged in the NEHU Act, of the department is imparting knowledge in Chemistry to equip its students with competency to utilise the natural resources available in abundance in this region. The teaching programmes of the department provide a broad knowledge of both theoretical and practical aspects of various modern areas of Chemistry. The inception of a Regional Sophisticated Instrumentation Centre (RSIC) in the University offers new avenues to enable the students of this department to apply modern instrumental techniques for structural and analytical studies. The utility of the course structure in fulfilling the objective of the department is indicated by an impressive placement of the students of its previous batches.

### Student Intake

M. Sc.	Male	Female	S.C.	S.T.	Total
Semester I	15	1	2	1	16
Ph. D. Scholars	10	3	—	2	13

**M. Sc. Teaching Programme:** The department has so far to its credit six batches of students who have been awarded the M. Sc. degree. The course work adopted ensures a sound basis of the fundamental aspects of the principal branches of Chemistry. The teaching programmes have periodically been revised to keep pace with the latest advancement, to overcome the deficiencies of the students of the North-Eastern region. Within the limits

of the constraints, the number of students admitted to the M. Sc. programme has been raised to twenty (20) in order to accommodate deserving applicants and to enhance the likely input to the research schemes on hand. Appropriate relaxation of rules of admission have been enforced to admit all the tribal candidates seeking admission. Efforts are being made to supplement the regular teaching work to enable such students to overcome the deficiencies.

**Research Activity :** Being conscious of the consideration that a balanced development of a University department is possible only when the research and teaching programmes go hand in hand, considerable emphasis has been laid on the establishment and improvement of research facilities in the department by way of providing excellent working conditions in the research laboratories and sophisticated instrumental facilities. The following are the lists of such instruments being acquired and installed by the department as well as by the RSIC.

#### **Departmental Instruments**

1. Parkin-Elmer Model—297 Infrared-Spectrophotometer
2. Varian Model M 590,90 MH Nuclear Magnetic Resonance S Spectrometer
3. Pacific Photometrics Electroanalyser
4. Coleman, C, H and N Microanalytical Instruments.
5. Mettler Microanalytical Balances.
6. Beckman Model UV-26 Ultraviolet and visible Spectrophotometer.
7. Parr Instrument-Pressure Hydrogenators, Autoclaves etc.

#### **RSIC Instruments**

1. Perkin Elmer Model 983 IR spectrophotometer,
2. Dupont 8803 High Pressure Liquid Chromatograph.

3. UV-VIS-NIR Spectrophotometer. (Varian 2390)
4. Philips PL N 106 Liquid Nitrogen Plant
5. Mass Spectrometer (GC MS-DS System) Finnigan Matt.
6. Ultra Centrifuge (SCP-85 H) Hitachi.
7. Ampholite Electro Focussing Equipment (LKB)
8. Electron microscopes (Scanning and Transmission) Jeol.
9. Ultra Microtome (LKB).

As in the case of the Post-Graduate teaching programme, the areas of research in progress in the department are of a versatile nature to get a broad-based training in the requirements relevant for the North Eastern region. This is achieved by a judicious selection of a course structure which constitutes a compulsory prerequisite to equip the research students with a broad theoretical background to supplement the experimental investigations to be undertaken. In addition, the students who had their postgraduate degree from this department and those from other Universities as well as the teachers from the level colleges are among the research students of the department. Such a training imparted to the local college teachers is intended to improve the standard of teaching of Chemistry at the undergraduate level in the affiliated colleges of the University. The department has made great efforts to overcome the deficiencies of the students of this region.

A significant aspect has been a welcome enhancement in the increased proportion of tribal students admitted to the Ph. D. programme this year. Out of a total of 13 students admitted, two belong to the ST category.

The efforts of the department in the direction of research initiated right from its inception, culminated in the award of Ph. D. degrees to 5 candidates during the

academic year 1982-83, which should be considered as an important milestone in the history of the department.

A list of the candidates along with their topics of research and supervisors is attached.

### LIST OF STUDENTS AWARDED THE Ph. D DEGREE :

SL. NO.	NAME	( TOPIC OF RESEARCH )	SUPERVISOR
1.	N. Roy	Spectrometry of some metal compounds and studies on Fluoride and Acetylacetonate compounds of Chromium.	Dr. M.K. Choudhuri
2.	B.A.K. Bha- Bhattacharjee	Electron Transfer Reactions	Dr. M.K. Mahanti
3.	Veena	Synthetic Studies on Heterocycles	Dr. H. Il-
4.	S. Apparao	A. Study on polarized keten Dithioacetals. B. Synthesis of 1-ryl-2-cyanoaziridines and their reaction with indole.	Prof. H. Junjappa
5.	S. S. Mahiuddin	A Study on the Transport properties of Electrolytes	Dr. K. Ishmail
3.		<b>Research Publications</b>	
1		Synthesis of Tris (acetylacetonate) Chromium (III), $Cr(C_5H_7O_2)_3$ , M.K. Choudhuri, N. Roy, and D. T. Khathing. <i>Synth. React. Inorg. Met. Org. Chem.</i> 12, 715 (1982).	

2. Synthesis of Alkali Metal Trifluoroaquomanganates (II), M. N. Bhattacharjee and M. K. Chaudhuri, *Ind. J. Chem.* 21A, 977 (1982).
3. Synthesis and Spectroscopic Studies of Alkali pentafluoroaquochromates (III), M. K. Chaudhuri and N. Roy, *Synth React. Inorg. Met - Org. Chem.* 12 879 (1982).
4. Synthesis of Alkali Oxydiperoxyfluorovanadates (V), M. K. Chaudhuri and S. K. Ghosh, *Polyhedron*, 1 553 (1982).
5. A Novel Synthesis of Tris (acetylacetonato) Iron (II) M. K. Chaudhuri and S. K. Ghosh, *J. Chem. Soc., Dalton Trans.*, 839 (1983).
6. Alkali Triperoxyfluorovanadates (V),  $A_3[V(O)_3F_3]$ , M. K. Chaudhuri and S. K. Ghosh, *Inorg. Chem.*, 21, 4020 (1982).
7. Lead Tetraacetate oxidation of Metallic Copper to  $Cu^{2+}$ : An unusual oxidation., A. Debroy M.P. Mahajan, M.N. Bhattacharjee and M. K. Chaudhuri, *J. Chem. Soc., Dalton, Trans.*, 2532 (1983).
8. The Direct Synthesis of Bis (acetylacetonate) Nickel (II) Dihydrate and Isolation of d,d,p,p- Tetraacetylthane as the oxidation product of acetylacetone., M.N. Bhattacharjee, M.K. Chaudhuri, S.K. Ghosh, Z. Hiese and N. Roy., *J. Chem Soc., Dalton. Trans.*, 2561 (1983).
9. Reactions of nitrosyl chloride with  $Ni(PPh_3)_2X_2$  ( $X = Cl, Br, NCS$  or  $NO_2$ ) K P. Sarma and Raj K. Poddar, *Trans. Met, Chem.* 8 31 (1983).
10. Synthesis and Studies on dichloro iodo triphenylphosphine, oxide nickel (III) K.P. Sarma and Raj K. Poddar, *Polyhedron* 2 672 (1983).
11. Mixed ligand complexes of nickel (II), K. P. Sarma and Raj K. Poddar, *Trans Met Chem.* 8 225 (1983).

12. Cyanotrimethylammonium Methyl Formation and Reaction with d,p-Unsaturated Carbonyl Compounds: Novel Cyclopropanation with an Ammonium Ylid, S.S. Bhattaoharjee, H. Ila and H. Junjappa *Synthesis*, 301 (1182).
13. Base Catalysed Rearrangement of 3,3-bisalkylthio-2-bisalkylthio-2-methyl-acrylophenones to 3-alkylthio-2-alkylthiomethylacrylophenones, S. Apparao, A. Rahman, H. Ila and H. Junjappa, *Tetrahedron, Letters*, 971 (1982)
14. Reaction of S.N-Acetals with Thionyl Chloride: A New General Method for 2-Aryl/carbethoxy-3-Aroyl/4-alkylthiothiazoles, A. Rahman, H. Ila and H. Junjappa, *J. Chem Soc., Perkin, Transactions. I* (1983).
15. A New General Highly Stereoselective Method for Methyl-5-aryl-2, 4-pentadienoates, B. Myrboh, C. V. ASOKAN, H. Junjappa, *Synthesis*, (1983).
16. Desulfurisation of N.N-Diarylthiourea by Lead-tetraacetate oxidation, P.D. Baruah, A. Debroy, S.N. Mazumdar and M.P. Mahajan, *Bull. Chem Soc., Jph*, 0000, 1983.
17. "Solid Solution studies of Hydroxyl and chloroapatites of Arsenic-Preparation and characterization", *Curr Sci.* 51, 772 (1982) T.S.B. Narasaraju, Preeti L and U S. Rai.
18. Solid Molecular Complexes of Phenothiazine. N-Methylphenothiazine with 7,7,8,8, Tetracyanoquinodimethane, S.N. Bhat, V.P. Shedbalkar and H. Kuroda, *Ind. J. Chem.*, 21A 1015 (1982).
19. Transport Number of Charge-transfer Complexes in solution, V. P. Shedbalkar and S.N. Bhat, *Electrochim Acta*, 28, 359 (1983).
20. The Blue shifted Iodine Band, V. P. Shedbalkar and S. N. Bhat, *Ind. J. Chem.*, 22,A 216 (1983)

21. Kinetics of the Transformation of outer Charge-transfer Complexes into inner Complexes, Bharati Bhattacharjee Anuradh Varshney and S. N. Bhat, *J. Ind. Chem. Soc.*, **60**, 842 (1983).
22. Viscometry in the study of Molecular Complexes, Bharati Bhattacharjee and S.N. Bhat, *Proc. Ind. Acad. Sci.*, **92**, 147 (1983).
23. Kinetics and mechanism of oxidation of trans-cinnamic and transcrotonic acids by hexacyanoferrate (III) in perchloric acid medium, A.K. Bhattacharjee and M. K. Mahanti, *Indian J. Chem.*, **21A**, 770 (1982).
24. Effect of solvents on the Mn(acac)<sub>3</sub> complex A. K. Bhattacharjee and M. K. Mahanti, *Indian J. Chem.*, **22A**, 1009 (1982).
25. Kinetics and mechanism of oxidation of trans-cinnamic and transcrotonic acids by hexacyanoferrate (III) in perchloric acid medium, A. K. Bhattacharjee and M. K. Mahanti, *Intl. J. Chem Kinetics*, **14**, 1113 (1982).
26. Kinetics and mechanism of oxidation of quinol by alkaline hexacyanoferrate (III), M. Bhattacharjee and M. K. Mahanti, *Reaction Kinetics and Catalysis Letters*, **21**, 449 (1982).
27. Kinetically controlled conversion naphthalene to 1 naphthol by acidic hexacyanoferrate (III) A. K. Bhattacharjee and M. K. Mahanti, *Indian J. Chem.*, **22A**, 74 (1983).
28. Kinetics of oxidative coupling of phenols: Oxidation of Phloroglucinol by alkaline hexacyanoferrate (III), M. Bhattacharjee and M. K. Mahanti, *Indian J. Chem.*, **22A**, 634 (1983).
29. Kinetics of oxidation of arylalkanes by hexacyanoferrate (III) in acidic media: Oxidation of diphenylmethane and triphenylmethane, A. K. Bhattacharjee and M. K. Mahanti, *Gazetta Chimica Italiana*, **113**, 1 (1983).

- 30 Kinetics and mechanism of oxidation of catechol by hexacyanoferrate (III) in alkaline medium M. Bhattacharjee and M. K. Mahanti, *Gazetta Chimica Italiana*, **103**, 101 (1983).
- 31 Kinetics of oxidative coupling of phenols : Oxidation of naphthols by alkaline hexacyanoferrate (III), M. Bhattacharjee and M. K. Mahanti, *In I J. Chem. Kinetics*, **15**, 197 (1982).
32. Kinetics of oxidation of nitrotoluenes by acidic hexacyanoferrate (III), A. K. Bhattacharjee and M. K. Mahanti, *Bull, Korean Chem. Soc* , **4**, 102 (1983)
33. Kinetics of oxidative coupling of phenols : Oxidation of guaiacol by alkaline hexacyanoferrate (III) S. N. Singh, M. Bhattacharjee and M. K. Mahanti, *Bull, Chem. Soc* , **56**, 1855 (1983)
34. "Concentration Dependence of Transport Properties of Glass Forming Melts" S. Rahiuddin and K. Ismail, *Phil. Chem. Soc, Japan*, in press.
35. Concentration Dependence of Viscosity of Aqueous Electrolytes A Probe into the Higher Concentration, S. Mahiuddin and K. Ismail, *J. Phys. Chem* **87**, 5241 (1983).
36. 'A Study on the Concentration Dependence of Conductance of Aqueous Electrolytes, S. Mahiuddin and K. Ismail, *J. Phys. Chem* , in press.
37. Mixed Alkali Effect in  $0.3(x \text{ KSCN} (1-x) \text{ NaSCN}) \cdot 0.7 \text{ Ca}(\text{NO}_3)_2 \cdot 4\text{O}_6\text{H}_2\text{O}$  Melt, P Sangma, S Mahiuddin, and K Ismail, *J. Phys Chem* , in press.

#### 4. Visiting Professors

Sl. No.	Professor	Institution	Topic of Talk	Date
1.	Prof. H L. Higam	University of Allahabad	Structural aspects of metal clusters.	16-9-82

- |    |                        |                                                          |                                                                                                          |          |
|----|------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|
| 2. | Prof. S.P. Srivastava. | University of<br>Roorkee                                 | General aspects<br>of Chemical<br>Dynamics                                                               | 11-12-82 |
| 3. | Prof. D. Mukherji.     | Indian Association for the<br>cultivation of<br>Science. | Shapes of<br>molecules :                                                                                 | 25-5-83  |
| 4. | Prof. S.K. Talapatra.  | University of<br>Calcutta                                | Fact or Fiction<br>Some recent<br>aspects of natural<br>product Chemistry : use of<br>N.M.R. techniques. | 6-6-83   |
| 5. | Prof. J. C. Ahluwalia. | I.I.T. Delhi                                             | Thermodynamics of biopolymer systems in<br>aqueous media.                                                | 7-6-83   |
| 6. | Prof. S.M. Taqui Khan. | Central salt<br>and Marine<br>Research Institute.        | Homogeneous<br>catalysis by<br>transition metal<br>complexes.                                            | 7-6-83   |
| 7. | Prof. S. M. Verma.     | B.H.U.,<br>Varanasi                                      | Conformational<br>Analysis Assignments.                                                                  | 13-6-83  |
| 8. | Prof. R. C. Agarwal.   | B. H. U.,<br>Varanasi                                    | Studies of metal<br>complexes of di-<br>thio-ligands                                                     | 14-6-83  |
| 9. | Prof B.M. Shukla.      | Gorakhpur                                                | Age of Nuclear<br>Energy                                                                                 | 15-6-83  |

#### 5. Conferences/Seminars attended

- |    | <i>Name</i>     | <i>Title of Paper</i>                                                                                     | <i>Venue</i>                                              |
|----|-----------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1. | Dr. S. N. Bhat. | "Studies on Molecular<br>Complexes of some II-<br>elements with iodine by<br>constant activity<br>method. | Indian Council<br>of Chemists,<br>Srinagar (Nov.<br>1982) |

2. Dr M. K. Mahanti Molecular Orbital Calculations on some organic molecules Invited Lecture, University of Roorkee (Jan 1983).

6. Positioning of Students who completed the M. Sc. programme in July 1983

<i>Name of Students</i>	<i>Position</i>
1. Mr Anil K. Dubey.	Research Fellow, IIT Kanpur
2. Mr Abraham Thomas.	Research Fellow, CSIR Dept of Chemistry, NEHU
3. Miss Beonapani Saikia.	---
4. Miss Gandra Bhattacharjee.	Research Fellow
5. Miss Chitrani Yendrebam.	Teaching in a College in Manipur
6. Mr. Debashis Dey.	Research Fellow, Dept of Chemistry, NEHU
7. Mr. Swilken Mawthoh.	Lecturer in Chemistry Lady Keane's College
8. Mr. Gadadhar Sarma.	Teaching in Higher Sec- ondary School, Tezpur
9. Mr. Jyoti P. Chetia.	Oil and Natural Gas Commission
10. Miss Nashreen S. Islam.	Research Fellow (CSIR) Dept of Chemistry NEHU
11. Mr. Pralay K. Mazumdar.	---
12. Miss Rashmi Satsangi.	Research Fellow (UGC) Dept of Chemistry, NEHU
13. Mr. R. Dayal Yadav.	Teaching in High School, Duliajan

14. Mrs. Shakira S. Islam. Research Fellow (CSIR)  
Deptt of Chemistry, NEHU

[IV] Research Scholar	SC/ST	Type of Fellowship	Supervisor
1. Mr. C.V. Asokan.	—	CSIR	Prof. H. Junjappa.
2. Mr. P. D. Baruah.	—	U.G.C.	Dr. M. P. Mahajan.
3. Mr. R. Chakrasali.	—	D.S.T.	Prof. H. Junjappa.
4. Mr. B. Das.	—	College Teacher (Part time).	Dr. M.K. Mahanti.
5. Miss G. Dasgupta.	—	U G C	Dr. M.K. Mahanti.
6. Mr. M. Dasgupta.	—	College Teacher (Part time)	Dr. M.K. Mahanti.
7. Mr. A. Dutt.	—	CSIR	Prof. H. Junjappa
8. Mr. R.N. Dutta Purkayastha.	—	D.A.E.	Dr. M.K. Chaudhuri.
9. Mr. A.K. Gupta.	—	CSIR	Dr. H. Ila.
10. Miss D. Laloo.	ST	College Teacher (one leave from Government of Meghalaya)	Dr. M. K. Mahanti.
11. Miss Minakshi Devi.	—	NEHU	Dr. O.K. Medhi
12. Mr. P. Sangma.	ST	CSIR	Dr. K. Ismail.
13. Mr. A Saxena.	—	D.A.E.	Dr. K.K. Dwivedi

**[V] Research Projects taken up by the Department (1982-83)**

Title of Project	Funding Agency	Investigators
1. Kinetics of Oxidative cyclization of heterocyclic molecules containing amino imino and thiol functions	UGC	Dr. M.K. Mahanti Dr. M.P. Mahajan.
2. Study of the mixed alkali effect in glass-forming systems	CSIR	Dr. K.I. Ismail.
3. Charge Transfer phenomena in polymers : studies on photoelectric materials	UGC	Dr. S.N. Bhat.
4. Generation and cycloaddition reactions of nitrenes	UGC	Dr. M.P. Mahajan.

### 3. DEPARTMENT OF MATHEMATICS

The Department of Mathematics provides teaching and research facilities leading to M. Sc M. Phil and Ph. D degrees in Mathematics. In 1982-83, it has also started a certificate and a diploma course in Statistics.

The Department has completed the ninth year of its existence in 1983. As ever, in 1982-83 also, the department continues its efforts to fulfill its objective of imparting sound knowledge of Mathematics through teaching, discussions, guiding research, seminars etc. Efforts are directed both towards promotion fundamental research in mathematics and towards popularizing mathematics in this region by producing good and dedicated teachers in mathematics which will be clear from the data given below. This apart, the faculty members are taking active interest in orienting the existing teachers in this region towards the modern trends in Mathematics. At the same time we have not ignored the hob potential (both inside and outside academics) of certain subjects like Statistics, Operations research and Numerical Analysis and thus we have included these courses in the M. Sc. syllabus. This is precisely the reason why, inspite of serious lack of man-power, we have hurried through in starting a certificate and a diploma course in Statistics in the academic year 1982-83.

#### Students Intake

Degrees	Male	Female	Total	Of which	
				SC	ST
M.A./M.Sc. Semester I & II	14	6	20	—	2
M.A./M.Sc. Semester III&IV	13	3	16	—	—
M. Phil	2	1	13	—	1
Ph. D.	3	1	4	—	—

Certificate in Statistics	3	3	6	—	6
Diploma in Statistics	2	—	2	—	2

College teachers who are doing higher studies in this department for Ph. D. and M. Phil. degree :—

1. Mr. Asok Chakravarty Lecturer, Lady Keane Girls' College Shillong (set topology).
2. Mr. Nirmal Dev —do— —do—
3. M. S. Bose, Lecturer, St. Edmund's College, Shillong.
4. Mr. D. Paul Choudhury, Lecturer, St. Anthony's College, Shillong, College Teachers who participated in conducting the Diploma/Certificate Course in Statistics :—

1. Mr. S. Bhattacharjee, Lecturer, St. Anthony's College, Shillong.
2. Mr. D. R. L. Lyngkholi, Lecturer —do—  
Visiting Professor during the current academic year :—

Prof. J.K. Ghosh of Indian Statistical Institute, Calcutta delivered a lecture on "Some problems in statistical inference"

Participation in Research Seminar/Symposium/Conference/Workshop :—

Dr. P. Jothilingam delivered a series of five lectures on "Serre's intersection multiplicity theorem and further consequences" at the Conference on "Commutative Algebra" held at the Punjab University, Chandigarh.

Dr. S.S. Khare gave an invited one hour talk on "Group action and equivalent bordism" on the I. M. M. S. Conference held in December 1982 in Bhagalpur. He gave another one hour invited talk on "Environment bordism and characteristic numbers" in the conference on "Topology and Functional analysis" in Aligarh on January, 1983.

## Research Publications

S. S. Khare :

1. "Compact Lie group actions and equivalent bordism". Proc. Amer. Math. Soc, (accepted).
2. Finite group action and equivariant bordism". Pac. J. Math. (accepted).
3. "(F.F.)—Free Bordism, and Stationary Points Set" International J. of Mathematics and Mathematical Sciences (accepted),
4. "(F.F.)—Free Bordism, characteristic numbers and Stationary Points Set" Acta Mathematica. (accepted).
5. Stationary Points set and G-bordism-Indian-J. of Pure and Applied Mathematics, Jan., 1983
6. "Reduction of equivariant bordism group". Studia Scientiarum, Mathematicarum Hungarica (accepted)

Participation in the Conference/Symposia/Workshop on the improvement of School Mathematics and Science in N. E. Region.

Dr. B. K. Dev Sharma twice participated as Director in the 15 days inservice training course for High School and Middle School teachers in Mathematics, organized by the Board of Secondary Education, Govt. of Assam, he participated as President in a session of a conference organized by Association on Improvement of Teaching Mathematics the Jadavpur, Calcutta.

He delivered a talk on the "Status of Mathematics Education in the North-Eastern Hill Region" at I. I. T Kanpur.

He presented a paper "The use of Educational Technology to improve school Mathematics and sciences" at the meeting of Educational Secretaries of the North-Eastern Hill States held in NEHU, Shillong.

Authorship/Co-authorship/Editorship of Popular Science Articles/Books :—

Dr. B.K. Dev Sharma has written two essays in a book 'Asamiya Vijnan Sahitya' published by the Assam Science Society, Gauhati. He has been the co-author and editor of a book "Instructional published by the Board of Secondary Education, Government of Assam"

The following is a list of SC/ST and general students who have been awarded M. Sc degree from our department and have assumed respectable positions in this region especially in academics.

Sl. No.	Name	Category	Present position
1.	Mr. Bulganin Nehru Lamare.	ST	Lecturer, Jowai Collge, Jowai
2.	Mr. Jogen Gohain.	General	Officer, Bank.
3.	Mr. Pranjal Rajkhowa.	—do—	Officer, Sheba Trav ls, Shillong.
4.	Mr. L. Lyngdoh.	ST	Officer, SCERT, Shillong
5.	Mrs Sipra Pa'choudhury	General.	Lecturer, Tura Govt. College, Tura.
6.	Mr Wati Sangba Ao.	ST	I. P. S. Officer
7.	Mr. Debashish Bhatta- charjee.	General	Lecturer, College of Agriculture, Medziphema. Nagaland.
8.	Mr. P. S. Marpna.	ST	Lecturer, Sankardev College.
9.	Mr. A. C. Sarkar.	General	Assit. Headmaster, High School in Tripura.
10	Mr. T. Jacob.	General	Lecturer, Deva Matha College, Kerala.
11.	Miss Y. M. Nongsiej.	ST	Lecturer, St. Mary's College, Shillong.
12.	Miss Faluni Paul Choudhury.	General	Research Scholar, Maths. Deptt., NEHU.

Name	Category	Present Position
13. Mr. A. L. Naronha.	General	Principal, St. Edmund's. School, Shillong.
14. Miss J. Padma.	General	M. Phil. Students Maths. Deptt., NEHU
15. Mr. D. R. L. Lyngkhoi.	ST	Lecturer, St. Anthony's College, Shillong.
16. Mr. T. H. S. Bonney.	ST	Lecturer, Polytechnique, Shillong.
17. Miss Jaya Gupta.	General	Lecturer, St. Mary's College, Shillong.
18. Mrs. Sanchali Dam.	General	Teacher, Laban Bengali Girls' H. S., Shg.
19. Mr. J Bhattacharjee.	General	Bank Employee, State Bank of India.
20. Mr. Basil Koikara.	General	Lecturer in Don Bosco, Shillong.
21. Mr. Surajit Das.	General	Lecturer, College in Karimgang, Assam.

#### Self Assessment :—

As is clear from the positioning of our ex-students and the number of college teachers and students coming forward for research in Mathematics the Department has contributed its mite to the intellectual, academic and cultural advancement of the people of this region. The number of ex-students, especially S. T. students, who have taken jobs as mathematics to teachers throughout the N. E. Region clearly shows that the efforts of the department will go a long way in popularising mathematics in this region, which is a great need of the region. Thus, the department has helped in the fulfilment of the objects of the NEHU Act.

## DEPARTMENT OF BOTANY

The School of Life Sciences with a thrust area in Ecology in the broadest sense and the Department of Botany with forest Biology as its main emphasis was active both in teaching and research. The Department also collaborated with the Department of Zoology in the area of fresh water Biology. Collaborative teaching upto about 50% of the total course work at the M. Sc level was maintained with Zoology and Biochemistry. Collaborative research started earlier with the Department of Sociology on jhum shifting cultivation continued during the year.

A major recognition for the research work done by Dr. Ram Boojh, one of the Ph. D research students under the supervision of Prof. P. S. Ramakrishnan was the award of the Indian National Science Academy. Young Scientist Award for 1983 for his outstanding work on "Tree Architecture in Forestry". This is the first time this recognition has come to the North-Eastern region and to forestry since award was instituted by INSA. Dr. Ram Boojh would receive a gold medal and a cash award of Rs. 5000/- from the Prime Minister of India at a special function.

A 3-day symposium on "Recent Trends in Microbial Ecology" organised by the society for Microbial Ecologists of Tropics for which Prof. R. R. Mishra was the convener-secretary was inaugurated at NEHU, Shillong by Dr. B. D. Sharma, Vice-Chancellor. The volume of abstracts containing 52 papers accepted for presentation was published. A number of faculty members and research students of the department of Botany participated in the symposium. Prof. R. R. Mishra presided over one of the sessions.

Dr. R.C. Laloo, Lecturer, joined the Cabinet of the Meghalaya Government and presently is the Minister of Education.

Eighteen students obtained the M. Sc. degree in Botany in 1983 examination. Nine students were awarded Ph. D in Botany.

The floristic collections from Tuensang and Mokokchung districts of Nagaland were added to the herbarium. A few high altitude species from Saramati peak were also added. The herbarium now has a collection of about 4000 species belonging to 800 genera and 200 families.

#### Students Intake

M. Sc	S. T.		Others		Total	
	M.	F.	M.	F.	M.	F.
Semester I	7	4	5	2	12	6
Semester II	11	2	4	1	15	3
Total	18	6	9	3	27	9

#### Research Scholars registered for Ph. D

Name	Scholarship/ Fellowship	Research Topic	Supervisor
1. Mr. S. N. Sharma.	DST	Biology and control of Imperate cy-linderica.	Prof. P. S. Ramakrishnan.
2. Mr. U. Baruah.	DST	Ecophysiological attributes of shrubs communities.	Prof. P. S. Ramakrishnan.
3. Mr. P.S. Wawmy.	DST	Ecophysiological attributes of herba-ceous communities.	Prof. P. S. Ramkri-shnan.
4. Mr. R. S. Khiewtam.	DST	Ecosystem structure and function of seral communities	Prof. P. S. Ramakri-shnan.
5. Mr. S. C. Ram.	UGC	Ecosystem structure and function of forest communities	Prof. P. S. Ramakri-shnan.

- |                                          |      |                                                                                                                                                                |                                      |
|------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 6. Mr. K. S. Rao                         | DST  | Ecophysiological attributes of bamboos in North East India                                                                                                     | Prof. P. S. Ramakrishnan             |
| 7. Mr. A. S. Reddy                       | DST  | Studies on ecosystem function of some plantation forests of North East India.                                                                                  | Prof. P. S. Ramakrishnan             |
| 8. Mr. K. K. Achuthan (to be registered) | DST  | Village ecosystem function                                                                                                                                     | Prof. P. S. Ramakrishnan.            |
| 9. Mr. A. N. Raghuvanshi                 | DST  | Studies on orchids of North-East India : Influence of Ecophysiological factors and mycorrhizal association on germinating seeds and some aspects of metabolism | Prof. R. R. Mishra & Dr. P. Tandon.  |
| 10. Mr. Subodh Dhar                      | DST  | Studies on orchids of North-East India : Metabolism and growth factor requirements in seed germination of some orchids.                                        | Prof. R. R. Mishra. & Dr. P. Tandon. |
| 11. Mr. R. S. Katiyar                    | DST  | Studies on orchids of North-East India : mycorrhiza                                                                                                            | Prof. R.R. Mishra & Dr. G.D. Sharma  |
| 12. Mr. Satish Kumar                     | ICAR | Ecophysiological studies on endomycorrhizae of certain important timber tree species of North-East India.                                                      | Prof. R.R. Mishra                    |

13. Mr. Meji- Govt. Studies on m commize Prof. R. R.  
pokyim of Na- and its role in Biological Mishra.  
galand control of root diseases  
of Pine (*Pinus Kesiya*  
Roylaex Gordon
14. Miss B. UGC Ecological studies of some Dr. T. S.  
Wankhar. medicinally important Tripathi.  
weeds of Meghalaya.

**Names of the Scholars who have submitted Ph. D. thesis**

1. Mrs. Rajeevalo. Prof. R. R. Ecological studies on the  
Mishra. phylloplane of paddy.
2. Miss M. Dkhar. Prof. R. R. Studies on microbiologi-  
Mishra. cal and biochemical  
aspects of maize fields  
soils of N. E. India.

**Post Doctoral Fellows/Research Associates**

- |                        |      |                         |
|------------------------|------|-------------------------|
| 1. Dr. D. P. Toky.     | CSIR | Research Associate.     |
| 2. Dr. B. K. Mishra.   | CSIR | PDF/Research Associate. |
| 3. Dr. A. K. Das.      | DST  | Senior Research Fellow. |
| 4. Dr. Ram Boojh.      | CSIR | PDF                     |
| 5. Dr. R. P. Shukla.   | CSIR | PDF                     |
| 6. Dr. H. K. Deka.     | DST  | Research Associate.     |
| 7. Dr. P. Chakravorty. | BARC | PDF                     |
| 8. Dr. J. P. N. Rai.   | CSIR | PDF                     |

**Research Projects presentiy in operation**

- |                                                                                                    | Sponsoring<br>Agency | Investigators             |
|----------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| 1. Centre for plant physiology research in India-Ecophysiology of successional forest communities. | DST                  | Prof. P. S. Ramakrishnan. |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------|
| 2. Anthropogenic, geologic and climatic factorial interaction contributing to ecosystem desertification at Cherrapunjee and adjoining areas                                                                                                                              | UGC                                                     | Prof. P. S. Ramakrishnan.   |
| 3. Ecology of shifting agriculture and its impact on forested ecosystems of North-Eastern Region- Further extended and indepth study on the MAB project on "Ecological implications of Jhum cultivation on the ecosystem functions of sub-tropical humid forest stands". | MAB<br>Deptt. of En-<br>vironment.                      | Prof. P. S. Ramakrishnan.   |
| 4. Field investigations on the land use pattern and village ecosystem function of different tribal communities in the North-Eastern Hill Region.                                                                                                                         | DST                                                     | Prof. P.S.<br>Ramakrishnan. |
| 5. Parameters for classification of forests for ecological purposes.                                                                                                                                                                                                     | Eco-De-<br>velopment.<br>Deptt. of<br>Environ-<br>ment. | Prof. P.S.<br>Ramakrishnan. |
| 6. Ecology of shifting cultivation in East Khasi Hills.                                                                                                                                                                                                                  | Eco-De-<br>velopment<br>Deptt of<br>Environ-<br>ment.   | Prof. P.S.<br>Ramakrishnan. |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|
| 7. Studies on Mycorrhizae of timber yielding trees of North-East India                                                                                       | ICAR                                   | Prof R.R. Mishra and Dr. G. D. Sharma.                   |
| 8. Studies on fungal associations of orchids and physiological factors that influence germination, growth and development of orchids of North East India.    | DST                                    | Prof. R.R. Mishra.<br>Dr. P. Tandon<br>Dr. G. D. Sharma. |
| 9. Radiological studies on a forest tree species (Pinus) of North-Eastern India and radioecology of its root region in relation to mycoorhizal associations. | Deptt of Atomic Energy                 | Prof. R.R. Mishra<br>Dr. Y.S. Chauhan & Dr. G. D. Sharma |
| 10. Investigations in Microbial communities in relation to different edaphic and agricultural practices of North-East India.                                 | ICAR                                   | Prof. R. R. Misra                                        |
| 11. Classification of major ecological sub-regions of the Himalayan system and determination of their present ecological status.                             | Eco-development Deptt. of Environment. | Dr. R. S. Tripathi (Co-Investigator)                     |
| 12. Ecology at Mawphlang forest                                                                                                                              | Eco-development Deptt. of Environment  | Dr. R. S. Tripathi.                                      |
| 13. Metabolism of auxin in mite induced cinnamom leaf gall formation on yield of essential oils.                                                             | CSIR                                   | Dr. P. Tandon.                                           |

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|-----|------------------------------------------------------------------------------------------------|----------------------------|----------------------|
| 14. | Aerobiology of Shillong.                                                                       | CSIR                       | Dr. B. K. Dutta.     |
| 15. | Studies on cellular differentiation and nitrogen fixation in blue-green algae (Minor Project). | UGC                        | Dr. P. M. Reddy.     |
| 16. | Flora of Mokokchung District, Nagaland                                                         | Botanical Survey of India. | Dr. M. N. V. Prasad. |
| 17. | Paleobotanical investigations of some sedimentary basins of North-East India (Minor Project).  | UGC                        | Dr. M. N. V. Prasad. |

#### Papers presented in Seminar and Conferences

Authors	Title of paper	Seminar	Place & Date
1. M. Baruah & R. R. Mishra	Dehydrogenase and urease activity in flooded and dryland rice field soil	"Recent Trends in Microbial Ecology" organised by the society for Microbial Ecologists of the Tropics.	NEHU, Shillong March 1983.
2. M. S. Dkhar & R. R. Mishra.	Microflora of Maize field soils.	-do-	-do-
3. P. Chakravorty & R. R. Mishra	Studies in forest pathology white rot of certain living trees,	-do-	-do-

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|-----|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 4   | Indira D. Bhatta-<br>charjee &<br>R. R.<br>Mishra. | Effect of G.<br>Tennis on the<br>nutrient uptake<br>in <i>Zea mays</i> .                                                                  | -do- | -do- |
| 5.  | R. Menon<br>and R. R.<br>Mishra.                   | Studies on the<br>control of<br>brown leaf<br>spot of rice by<br>seprophytic<br>phylloplane<br>fungi in vitro.                            | -do- | -do- |
| 6.  | N. K. Verma<br>& R. R. Mishra.                     | The VAM status<br>of <i>E. Adenopho-</i><br><i>rum</i> & <i>E. Riparium</i>                                                               | -do- | -do- |
| 7.  | P. Chakravarty<br>& R. R. Mishra.                  | Influence of VAM<br>on <i>Fusarium</i> wilt<br>of <i>Alvizia lebbek</i> .                                                                 | -do- | -do- |
| 8   | H. K. Deka &<br>R. R. Mishra.                      | Microbial popula-<br>tion of soil after<br>different amount of<br>fuel burning.                                                           | -do- | -do- |
| 9.  | R. S. Katiyar,<br>G. D. Sharma &<br>R. R. Mishra.  | Mycorrhizal infec-<br>tion of epiphytic<br>orchid in trophytic<br>orchid in tropical<br>forest of Meghalaya.                              | -do- | -do- |
| 10. | J. P. N. Rai &<br>R. S. Tripathi.                  | Allelopathic effect<br>of <i>E. reparium</i> on<br>population regula-<br>tion of two species<br>of <i>Galinsoga</i> and<br>soil microbes. | -do- | -do- |

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|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------|------|
| 11. B. K. Dutta,<br>G. R. Das &<br>P. R. Deb.               | Some aspects in soil<br>fungistasis                                                                                           | -do- | -do- |
| 12. P. M. Reddy,<br>D. D. Yumnam<br>& T. Y. Imchen.         | Distribution of blue-<br>green algeae in North-<br>East India : a preli-<br>minary report.                                    | -do- | -do- |
| 13. Meyipolyim,<br>R. R. Mishra &<br>G. D. Sharma.          | Studies on VAM in<br>certain families : cruci-<br>fereae, chenopodiaceae,<br>cyperaceae, amaran-<br>thaceae and polygonaceae. | do   | do   |
| 14. G. D. Sharma.                                           | Mycorrhiza and<br>Plant Productivity.                                                                                         | do   | do   |
| 15. W. R. Lyngdoh<br>G. D. Sharma.<br>& R. R. Mishra.       | Influence of copper<br>and formaline on<br>the mycorrhiza of<br>Pine ( <i>Pinus Kesiya</i><br>Royalex Gordon).                | do   | do   |
| 16. N. Nagavardha-<br>nam, G. D.<br>Sharma R. R.<br>Mishra. | Effect of heavy<br>metals on the effieie-<br>ncy of mycorrhiza<br>in crop plants.                                             | do   | do   |
| 17. R. P. Shukla.                                           | Loss of Ectomyeor-<br>rhizal propagulus in<br>the soil of the land<br>distributed by shifting<br>cultivation.                 | do   | do   |

18. Y. S. Chauhan & S. Ravindran. Gammaray. New approaches to Plant Science Researches effects on the short apex and growth of solasodine yielding solanums. University of Kashmir, Srinagar Oct, 1983
19. Y. S. Chauhan & J. S. Kharbteng. Studies in the reproductive biology of alkaloid yielding solanums. IV. Effect of ethrel on pollen germination and pollen tube growth. Development and comparative aspects of plant structure and function. University of Allahabad Oct. 1982
20. P. Tandon. Metabolism of auxin in Eriophyes incited zizyphus gall growth in culture. V International Congress of Plant Tissue and Cell Culture. Tokyo, Japan July 1982
21. T. Y. Imchen & P. M. Reddy. Interacting effects of light and nitrate on heterocyst differentiation in a nitrogen fixing blue-green Nostoc calcicola. Indian Science Congress (70th session) S.V. University Tirupati Jan. 1983

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|-------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|
| 22. M. N. V. Prasad.                | The changing pattern of landscape architecture in the Shillong plateau.                                          | Resource survey for land use planning and Environmental conservation | Indian Photo Interpretation Institute<br>Jan. 1983. |
| 23. P. S. Ramakrishnan.             | Environmental Degradation and strategies related to shifting agriculture in north-east India (Plenary lectures). | Strategies for environmental management.                             | Lucknow<br>March 1983.                              |
| 24. Ram Boojh & P. S. Ramakrishnan. | Tree growth strategies                                                                                           | International Society for Tropical Ecology Symposium                 | Bhopal<br>November, 1982                            |
| 25. Ram Boojh.                      | Canopy architecture and Productivity.                                                                            | Tree Physiology                                                      | Rubber Research Institute, Kerala.<br>March 1982.   |
| 26. Q. P. Toky.                     | Ecology of Shifting agriculture.                                                                                 | Symposium organised by Indian society of tree scientists.            | Dehradun<br>Nov. 1982.                              |

### Research Publications

1. Boojh, R and Ramakrishnan, P.S., 1981. "Phenology of trees in a sub-tropical evergreen montane forest in North East India". *Geo-Eco-Trop.*, 5 : 189-209.

2. Grooves, R.H. , Hagon, M.W. and Ramakrishnan, P. S. 1982 "Dormancy and germination of seed of Eight populations of *Tremeda australis*" *Augst. J. Bot.* , 30 : 373-86.
3. Mishra, B.K. and Ramakrishnan, P.S. 1982 "Energy flow through a village ecosystem with slash and burn agriculture in North-eastern India." *Agricultural systems* 9 : 57-72
4. Das, C. Ramakrishnan, P.S. and Das A.K. , 1982. "Estimating fascicle surface area of Khasi pine *Pinus kesiya* Royle ex Gordon ." *Proc. Indian natn. Sci. Acad.* , 848 : 361-366
5. Shukla, R.P. and Ramakrishnan, P.S. 1982. "Phenology of trees in a sub-tropical humid forest in North Eastern India." *Vegetation* 49 : 103-109.
6. Toky, O.P. and Ramakrishnan, P.S. , 1982. "A comparative study of the energy budget of hill agro ecosystems with emphasis on the slash and burn system (Jhum) at lower elevations of North-eastern India. " *Agricultural systems* 9 : 143-154.
7. Boojh, R and Ramakrishnan, P.S. 1982 "A comparative study of the energy budget of hill agro-ecosystems with emphasis on the slash and burn system (Jhum) at lower elevations of North-Eastern India." *Agricultural systems* 9 : 143-154.
8. Boojh, R. and Ramakrishnan, P. S. 1982. "On bifurcation ratio in *Schima* species." *Current Science* 51 : 436-437.
9. Boojh, R and Ramakrishnan, P. S. 1982. "Growth strategy of trees related to successional status I. Architecture and extension growth" *Forest Ecology and Management* 4 : 359-437.

10. Boojh, R and Ramakrishnan, P. S. 1982. "Growth strategy of trees related to successional status II. Leaf dynamics. Forest ecology and Management 4 : 375-386.
11. Kushwaha, S.P.S. and Ramakrishnan, P.S. 1982. "Observations on growth of *Eupatorium odoratum* L. and *Imperata cylindrica* (L.) Beauv. Var. Major. Under different Light and moisture regimes." Proc. Indian natn. Sci. Acad., B48 : 689-693.
12. Saxena, K.G. and Ramakrishnan, P.S. , 1982. "Partitioning of biomass and nutrients in the secondary successional herbaceous populations subsequent to slash and burn". Proc. Indian natn. Sci. Acad. , B48 : 807-818
13. Boojh, R and Ramakrishnan, P S. , 1982. "Growth and architecture of two altitudinal populations of *Schima wallichii*." Proc. India natn. Sci. Acad., B48. 534-545
14. Ramakrishnan, P.S. and Shukla, R.P. 1982. "On the relation among growth strategies, allocation pattern, productivity and successional status of trees of a sub-tropical forest community." Symp. Improvement of forest Biomass (Ed. P.K. Khosla), 403-412.
15. Kushwaha, S.P.S. Ramakrishnan, P.S. and Tripathi, R.S. 1983. "Competitive relationships of the plants of *Imperata Cylindrica* established from rhizomes and from seeds". Trop. Plant Sci. Res., 1 : 53-57.
16. Ramakrishnan, P.S. and Das, A.K. , 1983. "Studies on pine ecosystem function in Meghalaya." Trop. Plant Sci. Res. , 1 : 15-24.
17. Kushwaha, S.P.S., Ramakrishnan, P.S. and Tripathi, R.S 1983. "Competitive between *Imperata cylindrica* and *Eupatorium odoratum* at two levels of NPK treatment." Proc. Indian natn. Sci. Acad., 498 : 50-56.

18. Mishra, B.K. and Ramakrishnan, P. S., 1983. "Slash and burn agriculture at higher elevations in North-Eastern India.  
I. Sediment, water and nutrient losses." *Agric. Ecosystems Environ.*, 9 : 69-82
19. Mishra, B K. and Ramakrishnan, P.S. 1983 "Slash and burn agriculture at higher elevations on North-Eastern India. II Soil fertility changes." *Agric. Ecosystems Environ.* . 9: 83-96.
20. Mishra, B K. and Ramakrishnan. P. S. 1983 "Secondary succession subsequent to slash and burn agriculture at higher elevations of North-East India. I. Species diversity, biomass and litter production." *Acta Oecologica, Oecol. Applic.*, 4 : 95-107.
21. Mishra, R. R. and Tiwari B. K. , 1982 "Seasonal variation in estimated viable population of planktonic bacteria in a small lake. " *Tropical Ecology* 23 : 91-299.
22. Mishra, R.R. and Tiwari, B.K., 1982. 'A study on biological activity measurements and heterotrophic bacterial population in a small freshwater lake,' *Hydrobiologia* 96 : 257-269.
23. Chakravorty, P and Mishra, R.R. 1982. "Studies in forest pathology III. Root rot due to *Rhizoctonia solani* Kuhn, Group" *J. For. Pathol.* 12 : 308-316.
- 24 R.R. Mishra and Kharbuli, P.P., 1982. "Survey of mycorrhizal association in some trees of N.E. India." *Acta Botanica Indian* 10 : 192-195.
25. Deka, H. and Mishra, R.R. 1982 "Decomposition of Bamboo (*Dendrocalamus hamiltonii* Nees) leaf litter in relation to age of Jhum fellows in N. E. India."
26. Mishra, R.R. and Tiwari, B K. 1983. Dry weight loss and changes in a chemical composition of terrestrial plant litters during processing in a fresh-water lake." *Hydrobiologia*, 98 : 249-256.

27. Dkhar, M.S. and Mishra, R.R. 1983. "Dehydrogenase and urease activity of maize (*zea mays* L.) field soils." *Plant and Soil* 70 : 327-333.
28. Mishra, R.R. and Tiwari, B.K. 1983. "Fungi and Bacteria associated with territorial plant litter during processing in a freshwater lake." *Hydrobiologia* 102 ; 123-130.
29. Rai, J. P.N. and Tripathi, R.S. 1982. "Allelopathy as a factor contributing to dominance of *Eupatorium raparium* Regel" *Indian J Ecol* 9 : 14-20.
30. Rai, J.P.N. and Tripathi, R.S. 1983. "Population regulation of *Galinsoga ciliate* and *G. parviflora* : Effect of sowing pattern population density, moisture and texture" *Weed Research* 23 : 151-163.
31. Pradhan, P. and Tripathi R.S. 1983. "Competition between *Trifolium repens* and *Paspalum dilatatum* as related to trampling" *Oecologia Plantarum* 4 (4) : 345-353.
32. Tandon P. 1982. "Metabolism of auxin in Eriophyes incited *Zizyphus* of Plant tissue and cell culture" (Ed. A Fugiwawa), Abe Photo Printing Co. Ltd. Tokyo, Japan.
33. Reddy, P.M. 1983. "Changes in polyphosphate bodies during sporulation and spore germination in cyanobacteria" *Biochem, Physiol. Pflanzen* 178 : 77-79.
34. Reddy, P.M. 1983. "Control of sporulation in some bluegreen algae" *Archiv fuer Hydrobiologie (Algological studies)* 63 : 433-440.
35. Reddy, P.M. 1983. "Lipid composition of akinetes, heterocysts and vegetative cells of cyanobacteria" *Biochem. Physiol. Pflanzen* 178 : 575-578.
36. Prasad, M.N.V. 1982. "An annotated synopsis of Indian Palaeozoic gymnospermous woods" *Rev. Palaeobot Palynol.* 38 (1-2) : 119-156.

37. Prasad, M.N.V. and Ramesh, N. R. 1983 Fungal spores from the Holocene of Tripura, India" *Curr. Sci.* 52 (5) : 254 : 256.
38. Jamir, N. S. and Rao, R. R. 1982 "Ethnobotanical studies in Nagaland II. 54 medicinal plants and by Nagas". *J. Econ. Tax. Bot.* 3 : 11-17.
39. Jamir, N.S. Rao, R.R. 1982. Ethnobotanical studies in Nagaland I. Medicinal plants". *Eco. Bot.* 36 (2) : 176 -181.
40. Kumar, Y. Haridasan, K. and Rao, R.R. 1982 "Ethnobotanical notes on certain medicinal plants among some Garo people around Balphakram sanctuary in Meghalaya" *Bull. Bot. Surv. India* 22 (1-4) : 161-165.
41. Haridasan, K. Kumar, Y. and Rao. R.R. 1982. "New distributional records of plants for North-East India E. *JBNHS* 79 : 455-458.
42. Baishya, A. Rao R.R. 1981. "Fern and Ferns of Meghalaya" Published by Scientific Publisher, (Jodhpur).
43. Rao, R.R. Neogi, B. and Haridasan, K. 1982. "Stachytarheta dichotoma Vahl (verbenaceae) - A new record for India" *JBNHS.* 79 (1) : 233-234.

## 2. DEPARTMENT OF ZOOLOGY

The Department of Zoology was established in 1974 to provide post-graduate teaching and undertake research programmes. The Department identified Freshwater Biology as the thrust area has always used the local fauna as the experimental research material. Thus during the course of the years several branches have developed in their own areas of research and at the same time the regional relevance has always been taken care of.

The specialised areas of teaching are Development and Morphogenesis, Cytogenetics and Physiology, Fish and Fisheries and Parasitology Endocrinology, Biosystematics, Developmental Biology, Evolution, Zoogeography, Entomology, Environmental Biology and Fish Biology are taught as general courses at the departmental level; Cell Biology, Biological Chemistry, Biostatistics, Forest/Freshwater Biology and Ecology are taught as integrated courses at the school level.

The student trained so far have taken up jobs in educational institutions, Departments of Fishery, Agriculture, Sericulture and Forests. Many have taken up research studies and a number of them have gone abroad for higher studies.

### Students Intake

	Male	Female	Total	of which	
				SC	ST
M. Sc. I & II Semesters	12	4	16	1	6
M. Sc. III & IV Semesters	10	8	18	—	7
M. Phil.	7	2	9	—	1
Ph. D.	14	4	18	—	6

During the period under report, 19 students passed the M. Sc. examination and the fellowship students qualified for admission to the Ph. D. Degree.

<i>Name</i>	<i>Year of submission</i>	<i>Guide</i>
1. Mr. Ajai Kumar	1980	Dr. M. K. Khare
2. Miss Manashi Das Gupta	1982	Dr. J. R. B. Alfred
3. (Bhattacharya)		
4. Mr. Mrinal Das Gupta	1982	Dr. S. A. K. Nasar
5. Mr. Sisir Kumar Shaha	1982	Dr. S. A. K. Nasar
6. Mr Simon N. Dzuvichu	1982	Dr. J. R. B. Alfred
7. Mr. Shyama Prasad Biswas	1982	Dr K. Chatterjee & Dr. S.A.K. Nasar
8. Mr. Ajitkumar Bhagowati	1982	Dr. B. K. Ratha
9. Mr. Nabendu Jyoti Dhar	1982	Dr. K. Chatterjee

**Ph. D. students on roll as on 31st March, 1983**

<i>Name</i>	<i>Area of Research</i>
1. Mr. A. K. Z. Ahmed	Ecology
2. Mr. Rashad-ul Islam	Freshwater Biology
3. Mr A. Bhattacharya	Biochemical Taxonomy
4. Mr B. Kharbuli	Ecophysiology
5. Mr, N. G. Goswami	Biology of Prawns
6. Mr. A. Roy	Survey & Control of Insect Pests
7. Mr. S. Chaudhury	Insect integument
8. Mr. S. N. Dutta	Cytotaxonomy
9. Miss Sati Choudhury	Reproductive Biology
10 Mr. M. Ao	Fish Ecology and Zoogeography
11. Miss C. Rodrigues	Parasitology

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|--------------------------|------------------------------------|
| 12. Mr. I. Longkumer     | Ecology                            |
| 13. Miss N. Mishra       | Neuroendocrinology                 |
| 14. Mr. Kiyasetuo        | Amphibian Ecology &<br>Development |
| 15. Mr. O. Pal           | Ecology                            |
| 16. Mr. J. Serr          | Genetics                           |
| 17. Mr. H. Nuri          | Physiology and Bio-<br>chemistry   |
| 18. Miss R. Bhattacharya | Parasitology                       |

**Pre-Ph. D./M. Phil. students enrolled during 1982-83**

1. Mr. J. N. Verma
2. Miss A. P. Shabong
3. Mr. A. L. Paul
4. Mr. N. Saha
5. Mr. S. Prakash
6. Mr. A. Gupta
7. Mr. S. Deb
8. Mr. G. S. Das
9. Miss U. K. Jaiswal

**List of on-going research projects**

<i>Name</i>	<i>Agency</i>	<i>Supervisor</i>
1. Studies on the Ecology and Culture possibility of Mashseers.	Hindusthan Lovers	Dr. S. A. K. Nasar
2. Cytogenetic studies on Tasar Silk Worm.	UGC	Dr. K. Chatterjee
3. Regulation of Ureogenesis in an airbreathing fish.	UGC	Dr. B. K. Rath

4. Scanning Election  
 Microscopic observations UGC Dr. V. Tandon  
 on the surface topography  
 of paramphistome flukes  
 parasitizing ruminant  
 hosts in Meghalaya.
5. Genetic studies on frogs UGC Dr. K. Chatterjee  
 from North-East India.

### Visitors

The Department received a number of eminent scientists/academicians during the period.

1. Prof. U. S. Srivastava, Allahabad University.
2. Prof. G. K. Manna, Kalyani University.
3. Dr Santosh Kumar, Bhopal University.
4. Dr Maitrayi Das, Gauhati University.
5. Prof. S. R. V. Rao, Delhi University.
6. Dr T. C. Deka, Gauhati University.
7. Prof. Jagdis Bahadur, Dean, Jiwaji University, Gwalior.
8. Dr. T. Bhattacharya, Post-Graduate Centre, C. U. Agartala.
9. Late Prof. D. I. Sunderaj, Delhi University.
10. Dr. Mrs. Raj Baweja, Professor & Head of Geneacology Medl. College, Allahabad.

### Participation in Conference/Symposium/Seminar

1. Dr M. K. Khare participated in International Conference on the teaching and research in Developmental Biology in Afro-Asian countries organised by Indian Society of Developmental Biologists at Pune during November, 1982 and presented three papers.
2. Dr. B. K. Sharma presented a research paper at the 3rd International Rotifer Symposium during August-September, 1982 at Uppsala University, Sweden. He also participated in a workshop organised during the Rotifer Symposium.

### **Award of honour/distinction/membership of learned societies**

Dr S. A. K. Nasar has been declared Fellow of the Academy of Environmental Biology and Indian Association of Pollution Chemists and Biologists. He has also been nominated as a member of the Network of Tropical Fisheries Scientists which has its headquarters in Philippines. He was awarded a Research Associateship of CSIR to work on 'Flood-Plain Ecology' with Prof. J. S Dutta Munshi at Bhagalpur University. Shri H. C. Sharatchandra has been nominated by the Meghalaya Government as member of the Greater Shillong Environmental Committee.

### **Special Training**

1. Dr B. K. Sharma attended intensive course in Water Chemistry at Limnological Institute, Uppsala University, Sweden during September, 1982. He is currently undergoing the International Post-Graduate Training Course in Limnology in Austria (February-October, 1983).

### **Publications**

1. Ratha, B K. & Bhagwati A. K., "Biochemical composition and nutritional value of three species of hill stream fish belonging to the genus *Garra* from North-Eastern India" Proc. Indian Natn. Sci. Acad. 48B: 67-72, 1982.
2. Ratha B. K., & Ramanujan, S. N., "Bio-assay and neurotoxic effect of the fruit extract of a piscicidal plant, *Xanthoxylum armaum* on freshwater fishes". Proc. Indian Natn. Sci. Acad. 49B: 93-100, 1983.
3. Nasar, S A K, & Kumar, S, "Observations on the abiotic factors and planktonic periodicity in a shallow pond from the highlands of Shillong (India)". Acta Hydrochim-Hydrobiol. 10 (2) : 167-175, 1982.

4. Nasar, S. A. K., & Dasgupta M., "A Record of an abnormal specimen of the Indian Carp. *Labeo rohita* (Ham)" U. P. Jour. Zool. 2 (1) 56-57, 1902.
5. Nasar, S. A. K., Biswas, S. P. & Chatterjee, K., "Studies on the age and growth of two species of Carp. *Labeo pangusia* and *L. Dera*". J. Biol. Research 2(2) : 116-120, 1982.
6. Nasar, S. A. K. "Seasonal periodicity of Zooplank on in a tropical freshwater swamp in Bhagalpur (India)". Int. J. Ecol. Environ. Sci. 9. 37-43 1983.
7. Nasar, S. A. K. & Biswas, S. P., "Studies on the lengthweight relationship of *Puntius clavatus* from Simsang river, Meghalaya (India)". *Matsya* 9: 59-60, 1983.
8. Nasar, S. A. K., & Kumar, S., "On the length weight relationship and condition factor of *Channa Gachua*". *Arq. Mus. Bos.* 2 (9) : in Press) 1983.
9. Tandon, V & Maitra, S. C., "Scanning electron microscopic observations on the tegumental surface of two rumen flukes (Trematoda: paramphistomata)". *Journal of Helminthology*, 56 (2), 95-104 (1982).
10. Tandon, V & Gupta, N. K. "On some blood flukes (Spirochidae: Coeuritremitinal) from freshwater chelonians in India". *Proc. Ind. Acad Sci.*, 91 (3) 275-282.
11. Tandon, V, Meeker, R., Oishi, K., & Tiwari, K. K., "Sequence Organisation of Rat brain mitochondrial DNA". *Brain Research*, 245, 293-305, (1982).
12. Tandon, V & Maitra, S. C., "Surface morphology of *Gastrodiscoides hominis* (Lewis at Meconnel, 1876) Leiper, 1913 (Trematoda: Digenea) as revealed by scanning electron microscopy" *Journal of Helminthology* (1983-Press).

13. Tandon, V & Gupta, N. K., "On the blood fluke, *Cardiotrama roparensia* Mehrotra, 1973 and validity of *C. longivestimentata* Durvedi, 1967 (Spirorchidata : Coeuri-trematinal)" Res Bull. Punjab University (in Press).
14. Tandon V & Gupta N J, "On some already known pronocephalids (Trematoda Pronocephalidea) with a discussion on the synonymy of *pleurogenius liveararis* loss, 1901 with *P. Longisculus* Loss., 1901 and an amended key to the species of the genus (*Pleurogonis* Loss 1901)". Res. Bull. Punjab University, (in Press).
15. Sharma, B. K., 1983 "The Indian species of the genus *Brachionus* Eurotatoria : Monogononta : Brachionidae" *Hydrobiologia*, 104 : 29-38.
16. Sharma, D K. & Michael, R. 1983/84. "Redescription of *Alona taraporevalae* Shirgur & Naik, 1977 (Cladocera : Chydorioae ; Aloninae)". *Rec. Zool. Surv. India*, 81 (Press).
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18. Varman, A. R. & Dey, S, "Acid mucopolysaccharides in the lens outicle of the freshwater prawn," *Macrobrachium* *Curr. Sci.* 52, 219, 1983.
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25. Khare, M. K. & Sahu A. K. "*Diagnostic lectures of Rama danieli tadpoles amphibian reptilia*". (in Press).
26. Khare. M. K. & Sahu A. K., "*Description of Rana cyanophlyctes tadpoles Bionature*". (in Press).

### **3. DEPARTMENT OF BIO - CHEMISTRY**

Biochemistry constitutes a very important component of Biological Sciences. For proper and full understanding of biological systems, it is necessary to have information about the biochemical processes involved at the molecular level. The Departments of Botany and Zoology were the only Departments in the School of Life Sciences until 1980. Realising the importance of Biochemistry for achieving the objectives of the School, the UGC Visiting Committee for the Fifth Plan recommended opening of the Department of Biochemistry in the School of Life Sciences. The fact that there was no institution in the whole of North-East India which offers post-graduate course in Biochemistry added to the need for opening of the Department. Hence, the Department was established in 1980.

Besides pursuing its own research programmes, keeping in view the regional needs such as nutritional studies, biochemical aspects of diseases, biochemical adaptation, etc, the Department will be instrumental in supplementing the research programme of its sister Departments. As it took sometime to set up the infrastructure required for teaching and research, the first batch of M. Sc. students could be admitted only in this academic session. Due to constraints in terms of space and laboratory facilities, only seven students could be admitted to the M. Sc. course. In collaboration with the other two Departments in the School, the Department offers the M. Phil course to a limited number of students. The Department runs Ph.D. programmes as well. The Department also helped one of the affiliated colleges in teaching some of its under-graduate courses.

**Students Intake**

M.Sc	Male	Female	Total	SC	ST
Semester-I	4	3	7	—	3
M.Phil	1	0	1	—	—
Ph.D.	1	1	2	—	—

The following are the names of research scholars in the Department

Name	Research Topic
1. P.K. Prabhakaran	: Multiple hemoglobins in two air breathing fishes: <i>H. fossilis</i> and <i>C. b. trachus</i> : Structural and functional aspects.
2. R.C. Paul	: Studies on Biochemical aspects of environmental and other toxic agents.
3. Rishi Das	: Hemoglobin polymorphism in chironomus Sp.

Dr. R. Lalthantluanga, Head of the Department attended the workshop on "Strategies of Biochemical Education" organised by the International Union of Biochemistry in Perth, Australia from August 12-14, 1982. He also attended the 11th International Congress of Perth from August 15-21, 1982 and presented a paper.

Dr R' Lalthantluanga collaborated with the Max-Planck Institute of Biochemistry, Martinsried (Munich) on "The Molecular Biology of Hemoglobins" and visited the Institute from December, 1982, to February, 1983.

Prof. (Mrs) S. Gujaral, Department of Food and Nutrition, M.S. University of Baroda spent three weeks in the Department from May 23 to June, 11, 1983 and delivered a series of lectures on Food and Nutrition to M. Sc. students. She also delivered two popular lectures: "Nutritional deficiency diseases" on 1 June, 1983 and "Assessment of Nutritional Status" on 7 June, 1983.

Prof. N. Appaji Rao, Department of Biochemistry Indian Institute of Science Bangalore delivered a popular lecture on "Screening of new-born babies for disorders of amino acid metabolism leading to mental retardation" on 7 September, 1982.

### Publications

1. M. Yahiya Khan & A. Salahuddin : *"A cyanogen bromide fragment of bovine serum albumin : Properties and its unfolding"* in proceedings of the 51st Annual Meeting of S B C , November 16-20, 1982.
2. M. Yahiya Khan & A. Salahuddin : *"A possible relation between the saking out behaviour of proteins and their surface hydrophobicity"* in Ind. J. Biochemistry, Biochemistry, Biophysics, 20, 127-131 (1983)

3. **R. Lalthantlugnga k** : "*Comparative studies on the structural, functional aspects of animal hemoglobins*" presented at the 12th I. U.B. Congress, Perth, Australia August, 1982
4. **R. Lalthantluang & C. Braunitzer** : "*Complete amino acid sequences of the I & II chains of yak.*"

## **1. CENTRE FOR ADULT & CONTINUING EDUCATION**

The Centre for Adult and Continuing Education of the North-Eastern Hill University was set up in 1974 in response to the rising need and demand for out of school education in the country in general and the region in particular. The main focus of the Centre's programmes have been on updating and enriching the intellectual, technical and functional skills of the individual and organisation in every part of the local and wider community through in-service and pre-service programmes, short term and long-term programmes, seminars and workshops. The Centre's work in the initial stages has been exploratory and innovative. Planning of programmes/courses is done both individually and collectively, inter-disciplinary, inter-departmental and inter-collaborative with other organisations.

Apart from short duration courses/programmes, the Centre has launched on two long-term programmes, which have already started functioning.

### **1. Placement service for graduate students/Alumni**

In order to provide a liaison between the graduating agency and the labour market a service has been worked out to assist graduates of NEHU to avail of job opportunities within and outside the north-eastern region. The service envisages to assist such prospective candidates, in any employment institutions wherever their qualifications fit in.

### **Open University Scheme of Lectures**

The Centre's objective is to provide education also to those who cannot enter the portals of the University, due

to nonavailability of time or age. In a small way a scheme of lectures through All India Radio has been already inaugurated on the Tenth Anniversary of the University.

### **Certificate course in Library Science**

In answer to an inevitable demand for semi-trained Librarian, 4-month certificate course in Library Science was started. The trainees of such courses have been placed suitably in Libraries. About 30-35 candidates were admitted. The course started on the 16th August, 1983.

## **2. CENTRE FOR CREATIVE ARTS**

The Centre has been surveying the feasibility of introducing M. A. Creative Arts in a planned phase, and the same will materialise as and when a proper syllabus to that effect is suitably framed.

### **Highlight of the Activities of the Centre**

The Centre during the year under review conducted important co-curricular and cultural programmes for the postgraduate students.

The first programme was the *Music Competition* for the post-graduate students which was held on 30 September, 1982. The programme was very much welcome and a number of students participated in Vocal and Instrumental, Group and Individual performances.

### **Folk Dance**

The second programme was the Folk Dance held on 16 October, 1982. This was intended to channelise the different Folk Arts of this region through our student participants, in which five Folk Dances were presented and which have considerably helped the University community and audience alike to enhance their interest in this colourful performance. Besides, one, dance drama, was also performed.

### **Debate Competition**

A debate was held on 25 November, 1982 in which a number of students participated on the Motion : *In the opinion of the house, Economic reconstruction will be the final solution to the problem of the people of North-East India.*

### **Cultural Show**

The Centre also organised a Cultural Show on 30 November 1982, specially intended to focus the importance of cultural heritage against the academic setting.

## Publication

The publications of the Centre improved instruction in Khasi has been circulated for sale.

A book entitled "*Art Education and Its Relevance in India's North-East*" has been edited. It has therefore, been processed for publication through the University Publication Cell.

The second edition (revised and enlarged) of the "*History and Culture of the Khasi people*"- Doctorate dissertation the *spectrum publication*, 1983-84 is coming out very soon

Another book entitled *Biography of U Tirot Singh* by the Reader-Incharge under the series *Makers of Modern India* is now under printing. The book has been sponsored by the Publication Divisions, Ministry of Information & Broadcasting, New Delhi and will be released in December.

## Seminars Workshops

The Reader Incharge attended a one month Film Appreciation course at the Film and Television Institute, Pune in June-July, 1982 under the scheme sponsored by the UGC to benefit University teachers in educational film making. He also delivered a lecture and presented a film show on the cultural heritage of the people of Meghalaya at Pune University on 17th July, 1982.

The Centre also collaborated with the Dean, Students' Welfare in other activities of Inter-College programmes.

## VIII LIBRARY DEPARTMENT

The NEHU Library system consisting of a Central Library, 5 Departmental Libraries, 2 Campus Libraries and 2 Constituent College Libraries made steady progress during the period under review. The system took up several measures to improve the efficiency of the services. The following are the major achievements :

### **Decentralisation of Acquisition**

Observing that the centralisation of acquisition was resulting in unnecessary delay, a policy was evolved by which acquisition of books was decentralised to the level of Campus Libraries and Constituent Colleges. This policy has started to play its role in the strengthening of the collections of Campus Libraries and Constituent Colleges.

### **Standing Library Committee**

The scope of the Standing Committee was extended so as to have sub-committees at Campus and Constituent College level and to include representatives from sub-committees in the Standing Library Committee.

### **Transfer of books available in multiple copies in the Central Library to other Campuses on permanent basis**

During the year the Library with the help of teachers sorted out books found in multiple copies and transferred some copies to Campus Libraries. This has not only helped to solve the immediate problem of space at the Central Library but also contributed a lot to the strengthening of the collections at Campus level.

### **Acquisition of books**

About 5,166 new books were added to the Library. These include text books, books on North-East and new books on different subjects.

## **Government Publications**

As part of keeping the Library Collection upto-date with data and Government Reports, the Library continued receiving Government Publications on gratis. About 500 such publications were received.

## **Introduction of Identity Card System**

As the Library was facing a number of problems due to the practice of transfer of Cards by students and research scholars, Identity Card System was introduced for the circulation system and gate check. This has resulted in prevention and control of such malpractices.

## **Course Book Section**

When it was found that text books are being pilfered, the Library created a Course Book Section where all prescribed text and other important books are kept in close access. Books from this Section marked 'CB' have to be returned within a week. This has greatly improved proper circulation of books amongst all students and helped in preventing pilferage of text books.

## **Index List of text books**

Lists compiled according subjects were brought out with the purpose to provide new students with ready information about text and important reference books available in the Library.

## **Reprographic Services**

A Plain Paper Copier was added this year which has further improved the services.

### Bindery Section

During the year the Section was furnished with following equipment :

- Board cutting machine
- Paper cutting machine
- Hand Press
- Miscellaneous items such as stone slab
- Hammer, etc.

### Library Publication

The Following bibliographies were brought out during the year :

- Dissertations on North-East India
- Area Bibliography

Work is in progress on an ICSSR project on Area Bibliography for the North-Eastern Region.

### Staff sent for higher studies

During the year the following staff were sent for higher training :

Shri P.K. Mitra attended one year course in M. Lib. Sc. at Banaras Hindu University.

### Statistics

Total collection	1981-82	1982-83
	98,941	1,04,107 *
Periodicals subscribed	961	1,35
Number of books added	3,378	5,166 *
Number of members enrolled	1,745	1,800
Number of books issued per day	385	420

\*This does not include the volumes added by constituent colleges and campuses after implementation of the policy of decentralisation of acquisition.

## **IX. COLLEGE DEVELOPMENT COUNCIL**

The UGC has extended the term of its assistance to the College Development Council upto the end of the Sixth Five Year Plan period.

In February 1983, a workshop on the General Foundation Course was held in Shillong in which two teachers from each affiliated college attended. Books on the Foundation Course and also Model Question papers had been published by the University and despatched to the Colleges.

After a series of discussions with the Principals of the affiliated colleges and the representatives of the State Governments of Meghalaya, Nagaland and the Union Territory of Mizoram, the University has finally decided to change the academic calendar with effect from 1984.

The North-Eastern Hill University has adopted the Ordinance of the Gauhati University in matters relating to the granting of affiliations to colleges. The Ordinance has been amended with a view to suit the particular conditions prevailing in the hill areas under NEHU's jurisdiction. During the year there were no new colleges being affiliated. Kolasib college was upgraded to degree level in the 1982-83 session.

The performances of some the affiliated colleges are included in this report, However reports from some colleges have not been received. Maintenance of students discipline in the colleges have been very good during the year.

## **SHORT REPORT OF THE COLLEGES**

### **Meghalaya Colleges**

#### **1. St Anthony's College**

St Anthony's College was established in the year 1934, when the Salesians of Don-Bosco felt that Shillong needs a college to cater to the needs of the local population especially the tribals of the state who had no opportunity to attend higher studies outside the state. The opening of the college was a great contribution to the cause of educational upliftment to the tribal community by the Salesians of Don Bosco. Today it has grown tremendously. It has about 200 students on rolls in all faculties of Arts, Science, and Commerce and became a society by itself but it has not changed its attitude towards the tribals of the State. It gives them top most priority in admission and in teaching. The college has recently opened up a new department of Pisciculture of Biological Sciences. Besides the shifting of the college to a new campus has given a positive educational atmosphere. It is hoped that this will go a long way to make St. Anthony's College live up to its motto "Ever More and Better Ever."

#### **Courses/Subjects taught in 1982-83 Session**

Pre-University (Arts), English, History, Economic, Political Science, Logic, Mathematics, Statistics, M. I. L Assamese, Bengali, Khasi, Hindi, Mizo, Nepali, Alt. English.

Pre-University (Science), English, Mathematics Physics, Chemistry, Biology Statistics, Additional Mathematics, M. I. L., as in P. U. (Arts). Degree Course (Arts) English, History, Economics, Pol. Science, Philosophy, Mathematics, Statistics, Foundation Course, M. I. L. as in P. U. (Arts).

**Degree Course (Science)** English Mathematics, Physics, Chemistry, Botany, Zoology, Statistics, Economics, Foundation Course.

**Degree Course (Commerce)** English, Accountancy, Statistics, Geography, Economics, Business Organisation, Optional Banking Adv. Accy., Auditing, M. I. L. as in P. U. (Arts).

**Financial Assistance :**

Basic Assistance (UGC) Rs. 18,000/- (Rupees Eighteen thousand) only vide letter No. F. 10-2/82 (B2) date 18-6-1982.

**Conference/Seminars attended by the teacher outside the college.**

Teachers and students of the college attend conference and seminars organised by the NEHU, NEC, State Government and other agencies. Most of them attend in their individual capacity as member of committees of these agencies.

**2. St. Edmund's College :**

St. Edmund's College of the Christian Brothers a Registered Charitable Society was founded by Sir Archdale Earle, Chief Commissioner of Assam, in 1916. Situated in spacious grounds it gives an ideal environment for student life. The object of this institution is to train youngmen in the habits of discipline, inspire them for religious tolerance and to prepare them for their future career. For some years, the College confined its attention to the Cambridge and Higher Level Examinations. As early as 1924, the College Authorities responding to public demand, introduced Intermediate classes in Arts and Science and affiliation was granted by Calcutta University in the same year. St. Edmund's College was thus the first Institution in the capital of Assam to offer College Education to students residing in Shillong, "the Queen of Hill Stations".

In 1936 B. A. and B.T. classes were opened and in 1959 B. Sc. classes upto Honours standard were started.

### **Courses/Subjects Taught in 1982-83 Session**

Pre-University (Arts), English, Khasi, Assamese, Bengali, Mizo, Hindi, Geography, History, Political Science, Economics, Mathematics. Pre-University (Science) English, Khasi, Assamese, Bengali, Mizo, Hindi, Geography, Chemistry, Physics, Mathematics, Biology, Botany. Degree Course (Arts) English, Elective English, History, Economic, Political Science, Geography, Khasi, Assamese, Bengali, Mizo, Hindi, and Foundation Course.

**Names of teachers doing research for M. Phil/Ph. D. during the year**

Mr. M. L. Purkayastha, Bro. M. R. Beddoe, Mrs. C. Wahlang. Students discipline in the college was good.

The students Union and its various committees play an important role in the life of the college. The games and sports committee organises Athletics, Football, Hockey, Tennis, Cricket, Basketball and Badminton competitions, as well as a variety of indoor games. The Debating Society holds regular College debates throughout the year. The students take an active part in the N. C. C. and in the National Service Scheme (NSS).

### **3. Synod College :**

**( courses/Subjects Taught in 1982-83 Session.**

Pre-University (Arts) English, Economics, Education, History, Pol. Science, Hindi (NIL) Khasi, Nepali and Second Languages, (Hindi & Khasi) and Foundation Course in lieu of M. I. L.

Before the introduction of the Three Year Degree Course the college had Honours in English, Economics, Education, Pol. Science and Khasi i. e. in the two-year (Honours) Degree Course. It may perhaps be taken as having ended with the 1983 batch of students appearing in the coming examination.

### Particulars of Financial Assistance Received From U. G. C.

1. U. G. C's letter No. F. 10-1075 (E.2) dated 5. 4. 1982  
Rs. 10,000/-
2. U. G. C.'s letter No. F. 10-1/75 (E.2) dated 28.5. 1982  
Rs. 20,000/-  
for construction of college building.

### Names of Teachers Doing Research For PH. D.

1. Mr. M. Dutt, Lecturer in English
2. Mr. A. Basaiawmoit, Lecturer in Khasi
3. Mr. D. K. Das, Lecturer in Economics
4. Mr. A. Kharkonger, Lecturer in History
5. Mr. R. Dubey, Lecturer in Hindi.

The College team participated in the Bhuwan Memorial Basketball Tournament for Boys which was staged at Shillong and lifted the Trophy. In the Inter-College Football Championship conducted by the North-Eastern Hill University, the College team emerged as the best team and won the trophy.

### 6. Lady Keane Girl's College :

Lady Keane Girls' College was established in 1935. The College was named after the wife of the then Governor of Assam Sir Michael Keane in recognition of the valuable services rendered by her to the college since through her contribution the land where the College stands now was procured from the Department of Defence, Govt. of India. The college was affiliated to the North-Eastern Hill University in 1973 with the following courses and subjects:

### Courses/Subjects Taught in 1982-83 Session

P. U. (Arts) English, Khasi, Bengali, Mizo, Assamese, Nepali, Aft. English, Second Language (Khasi, Bengali, Hindi) Pol. Science, Education, Logic, Sanskrit and History.

**P. U. C. (Science) English, Khasi, Bengali, Assamese, Mizo, Nepali, Hindi, Physics, Chemistry, Biology, Mathematics and Additional Mathematics.**

**Degree Courses (Pass) English, Khasi, Bengali, Assamese, Nepali, Mizo, Hindi Alt. English, Second Language (Khasi, Bengali Assamese & Hindi) Economics, Philosophy, History, Political Science, Education, Sanskrit and Mathematics.**

**Degree Course (Honours) English, Khasi Assamese Bengali, Economics, History, Philosophy, Pol. Science, Education, Sanskrit and Mathematics.**

**Degree Course Science B. Sc. (Pass) : English, Physics, Chemistry, Botany, Zoology and Mathematics. B. Sc. (Honours) Physics, Chemistry, Botany, Zoology and Mathematics.**

**Conference/Seminars Etc. Organised in the College or attended by the teachers outside the College :**

**The College organised a National Integration Camp on the Educational use of puppetry from 15th to 31st December, 1982 in collaboration with the NCERT, New Delhi.**

**Nearly 100 teachers from all over India attended the Camp. Among the distinguished guests who visited the camp and spoke at different functions were Mr. Maham Singh, Minister for Civil Supplies, Govt. of Meghalaya, Dr. B. Pakem, Minister of Education and Dr. B. D. Sharma, Vice-Chancellor North-Eastern Hill University. The Camp was a grand success.**

**Prof. S. Bhattacharyya, Head of the Department of History attended and participated in a workshop for the Under-graduate syllabus in History organised by North-Eastern Hill University in 1982.**

Names of teachers doing research for M. Phil Ph D. during the year :

- |                     |                          |
|---------------------|--------------------------|
| 1. Mrs. Lekha Ghosh | 7. Mr. K.C. Lalzarliana  |
| 2. Mrs. T. R. Kar   | 8. Mr. N.C. Dev          |
| 3. Mrs P.Lyngdoh    | 9. Mr. N.J. Dev          |
| 4. Mr. K.S. Singh   | 10. Mrs. P. Choudhury    |
| 5. Mr. T.S. Sen     | 11. Mr. S. Bhattacharyya |
| 6. Mrs. T.K. Bamon  | 12. Mr. P.V. Rao         |

#### 5. Nongstoin College, Nongstoin

##### Courses/Subjects Taught in 1982-83 Session

In 1982-83 session, the college had Pre-University classes in Arts only, the following subjects were taught in the college : English, Khasi, Political Science, Economics, Education, History and Alternative English.

Particulars of Financial Assistance Received from the U.G.C. in 1982-1983.

The College received no financial assistance from the U.G.C. during the session 1982-83. However, the following grants have been received from the Government of Meghalaya during the Session 1982-83.

- i) Maintenance grant
- ii) Library
- iii) Extra-curricular grant
- iv) Book grants.

Conference/Seminars attended by the Teachers outside the College.

The College deputed Mr. S. Thish, Lecturer in History to attend the third Annual Session of the North-East India History Assoc. held in December 1982 at Imphal. He presented paper on "The Practice of Head hunting among Hmar Tribe."

**6 Tura Government College**  
**Courses/Subjects Taught in 1982-83 Session**

P.U.C. (Arts), English, Alt. English, MIL (Assamese, Garo, Bengali), Economics, History, Political-Sciences; Logic, Education, Book-Keeping and Charter Account, Geography, Mathematics and Garo (Second Language).

P.U.C. (Science), Physics, Chemistry, Biology, Mathematics, Geography.

Degree Course (Arts) English (pass and honours), Economic (pass & honours), History (pass & honours), Philosophy (pass & honours), Education (pass).

Degree Course (Science), Physics, Chemistry, Botany, Zoology and Matematics.

**Names of teachers doing research for M. Phil/Ph.D. during the year**

1. Mrs. Sati Choudhury, Lecturer in Philosophy, is doing M. Phil in North-Eastern Hill University, Shillong.
2. Mrs. Dipty Moyee Das, Lecturer in Zoology is doing M. Phil. in North-Eastern Hill University, Shillong.
3. Mrs. Elna G. Momin, Lecturer in History is doing M. Phil in North-Eastern Hill University, Shillong.

**7. Union Christian College :**

**Courses/Subjects taught in 1982-83 session**

English, Elective English, Foundation Course, Alternative English, Assamese, Khasi, Mizo, Political Science, Economics, History, Geography, Philosophy and Logic.

**Names of teachers doing research for M Phil/Ph.D. during the Year.**

1. Miss A. Ingty, M.Phil at Madras.
2. Mr. R.N. Mohasary has registered for Ph.D (History) in NEHU
3. Mr. S.P. Roy has registered for Ph.D (Philosophy) in Gauhati University.

## 8. Post-Graduate Training College

### COURSES/SUBJECTS TAUGHT IN 1982-83 SESSION

Course I. Teachers and Society. Course II. Educational Psychology Course III, Educational Technology Course IV, Problems of Education in North-Eastern Region. Course V, Study of School System. Course VI, Special Courses.

- (a) Adult and non formal Education
- (b) Population Education
- (c) Education and Rural Development
- (d) Special Education for the fitted and backward
- (e) Educational Guidance

### Courses VII & VIII-Teaching Specialisation

- (a) Life Science
- (b) Physical Sciences
- (c) Social Sciences (i) History (ii) Geography (iii) Social Studies.
- (d) Mathematics
- (e) English
- (f) Indian Languages
- (i) Assamese (ii) Bengali (iii) Hindi (iv) Khasi.

## Nagaland College

### 9. College of Agriculture, Medziphema

The College of Agriculture, a constituent College of North-Eastern Hill University, situated at Medziphema in the foot hills of Pauna Range of Kohima (Nagaland) was established on October 20, 1978. It is the first professional institution in North-East region which offers courses leading to the P.U. (Agri) and the B.Sc. (Agri) integrated programme.

**ALLOCATION OF SEATS DURING THE YEAR**

Nagaland	—	20
Meghalaya	—	15
Manipur	—	1
Tripura	—	1
Arunachal Pradesh	—	5
Mizoram	—	10
Open	—	4
University quota	—	6
<b>Total</b>		<b>62</b>

Total students on rolls were 262, out of this there were 40 girls students on roll in the college.

The batch of 62 students for two years P.U. (Agri.) Course has been admitted in 1982-83. session.

The College produced the first batch of graduates in agriculture during the year.

The College at present has the following departments :-

<i>Name of the Departments</i>	<i>Discipline</i>
1. Agriculture Botany	Botany including Genetics and plant Breeding.
2. Zoology & Entomology	Zoology and Engomology.
3. Agril. Chemistry & Soil Science	Chemistry, Soil Science and Bio-Chemistry.
4. Agronomy	Agronomy and Meteorology.
5. Plant Pathology	Plant Pathology, Microbiology and Mycology.
6. Horticulture	Olericulture, Pomology, Floriculture and Food Technology.
7. Agril. Economics	Farm Management and Agil. Economics.

- |                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| 8. Extension Education        | Rural Sociology, Mass Communication, Extension and English.     |
| 9. Agril. Engineering         | Agril. Engineering and Physics.                                 |
| 10. Animal Science & Dairying | Poultry, Animal Husbandry, Veterinary Medicine & Public Health. |

### **Courses Programme & Courses taught during 1982-83.**

The College adopts a teaching pattern of semester system. Each Academic year is divided into 2 semesters, each semester comprising approximately of 18 weeks. Major emphasis is laid on practical training in the field of agriculture in hill region and practical crop production. The emphasis is also laid on the concepts of "learn by doing" "and earn while you learn."

#### **i. 1st year B. Sc. (Agri.)**

##### *1st Semester*

1. English - I ( Grammar )
2. Physics - I ( General Physics )
3. Mathematics- I ( Algebra )
4. Chemistry - ( Physical Chemistry )

##### *IInd Semester*

1. English - II
2. Mathematic- II
3. Zoology - II
4. Chemistry - II
5. Physics - II

**IInd year B. Sc. (Agri).****IIIrd Semester**

1. Organic Chemistry
2. Physics - II
3. Introduction to Indian Agriculture & Principles of crop production.
4. Coordinated geometry
5. Introduction to Rural Sociology
6. Introduction to Agril. Economics.

**IV Semester**

1. Crop Production
2. Introductory Soil Sciences
3. Introductory Entomology
4. Introduction to Plant Physiology
5. Principles of Mycology & Plant Pathology.

**IIIrd Year B. Sc. (Agril.)****Vth Semester.**

1. Crop Production - II
2. Principles of Mycology & Plant Pathology
3. Soil Physics
4. Introduction to Microbiology
5. Economic Entomology
6. Introductory Horticulture
7. Agril. Engineering, surveying and drawing.

**Vlth Semester**

1. Diseases of field crops
2. Practical crop production
3. Principles of Pest Control
4. Soil survey and pedology
5. Fundamental vegetable growing.

**Vlth Semester**

1. Introductory of Biochemistry
2. Livestock production & Management

3. Principles of Plant disease control
4. Soil survey and pedology
5. Fundamentals of fruit crops
6. Soil and Water Conservation Engineering
7. Farm Management.

#### *VIIth Semester*

1. Poultry Production
2. Animal Nutrition
3. Crop Production-II
4. Principles of weed control
5. Spices & Plantation crops
6. Introduction to statistical methods.

#### **Vth Year B. Sc. Agri**

#### *IXth Semester*

1. Farm power machinery & Electrification processing.
2. Livestock management and poultry disease
3. Poultry Production
4. Spices and Plantation crops
5. Principles of Weed control
6. National Banks and agricultural credit system
7. Communication & Audio visual aids.

#### *Xth Semester : Electives*

1. Plant Protection
  - a) Entomology
  - b) Plant Pathology
  - c) Agril Botany
2. Soil & Water Management
  - a) Soils
  - b) Agronomy
  - c) Horticulture

3. Rural Development Planning & Extension
  - a) Extension
  - b) Economics,
4. Tree culture & Pomology
  - a) Horticulture
  - b) Entomology
  - c) Plant Pathology

#### Introduction of 10+2+4 system in the College

The College has already switched over 10+2+4 system of education which was decided by the University. Students for +2 P. U. (Agri.) courses had been admitted in 1982-83<sup>rd</sup> session.

#### College status change to School

The status of the College of Agriculture has been raised to the School of Agricultural Sciences and Rural Development in order to bring it at par with other Schools of the University.

#### Establishment of Centre for Rural Development.

The development in science and technology hardly finds an outlet to the rural masses as a result the technology has by and large continued to be traditional especially in the North-Eastern Hill Region.

The planning machinery that works from the above, has not been able to involve the masses, and the social education is yet to make sufficient headway in evoking response. In operating the development schemes and inducing new technologies it is necessary to gain the confidence of the people and make them leaders of their own progress. An understanding of the tribal concept of development and the society that often stand in the way, is essential.

The main object of the centre shall be to train personnel to mobilize the village block for the purpose of Rural Development to serve as an operative agency.

### Introduction of non-traditional course

The College has started non-traditional courses in general arts and science streams. In the first phase it has been taken up by the Patkai Christian College, where a full-fledged course in horticulture has been started.

Name of symposium/meeting/ workshop	Name of participant
----------------------------------------	---------------------

- |                                                                                                                              |                     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1. National conference on "Insect Ecology & resources management" at S. D. College, Muzaffarnagar, U. P. during October' 82. | — Dr. M. V. Reddy   |
| 2. National seminar on "The effect of Pesticides on aquatic fauna" at Mhow, M.P., June 1983.                                 | — Dr. M. V. Reddy   |
| 3. Autumn course on ecology at IGTP, Troesta, Italy.                                                                         | — Dr. M. V. Reddy   |
| 4. Advance in Breeding methodology for crop improvement at Haryana Agril. University Hissar from 2.6. 83 to 25.6.83.         | — Dr. A. S. Mallick |

### Publications/and papers presented during 1982-83

Hill Agril. ( 1982)  
Hodlay, M. J. JWB

Campus Magazine,  
Stewart, B.S. Chauhan, (1982)  
*"Changes in liable and organic soil phosphorus fractions included by regular carbon additions or by cultivation practices."* Soil Sci. Soc. Am. J. 46 : 970-976.

- M. Vikram Reddy, 1982 : *Two species of Odontotermes (Termitidae : Isoptera as pests of building and transmission pole Timber*", Material and Organism. 17 : 315-318
- M. Vikram Reddy, 1983 : *"Effect of fire on costs of Pheretima alexandri"*, In earthworm Ecology from Darwin to Vermiculture (Ed. J. E Satchell) Chapman and Hall, Ltd., London, 209-233.
- M. Vikram Reddy, 1983 : *"Annual cost production by Megascocoloid earthworm, Pheretima alexandri"*, Comp. Physical Ecol., 8 : 84-86.
- Gupta R. C. 1982 : *"Amoebicidal Fungicidal activity in new Quinazolones"*. Drug Research (Germany).
- Gupta R. C. 1982 : *"Cuccinatedehydrogenase and anticonvulsant activity in new thiobarburetes"*. Eup. J. Med. Chem.

The following research programmes are conducted in the college.

a) Seasonal survey of the soil inhabiting entomofauna of rice, maize and sugarcane in relation to various climatic factors in Nagaland.

b) Study of Tuli, Nagaland, a paper mill town, as an ecological system.

c) Study of the population trends in the North-Eastern regions

d) Collection of secondary and primary data of rural areas and formulation of methodology to prepare the literature of Rural Development for IRDP.

e) Collection of germ plasm of crop plants, Vegetables and medicinal plants from Nagaland.

**Extension programmes :**

The faculty members are also engaged in the following activities :-

1. Technical assistance provided for running a broiler project to the local unit of 16 Assam Rifles.
2. Technical advice for development of a fruit orchard at Army supply crops, Ragnahar.
3. Assisting ICAR Research Complex for North-Eastern Hill Region, Centre Jharnapani, Nagaland in conducting various training programme of K. V. K. and T.T.C.
4. Assisting All India Radio, Kohima by giving radio talks.

**Name of teachers doing research for M. Phil/Ph. D. during the year.**

- |                        |   |                                                        |
|------------------------|---|--------------------------------------------------------|
| 1. Mr. A.S. Mallick    | : | C.S.A.U.A. & T. Kanpur.                                |
| 2. Mr. D.P. Chaturvedi | : | Utkal University, Bhubaneswar.                         |
| 3. Mr. L.R. Saha       | : | Rajendra Agril. University, Pusa.                      |
| 4. Mr. Rakesh Mohan    | : | Bidhan Chandra Krishi Vidyalaya, Kalyani, West Bengal. |
| 5. Mr. L Ao            | : | NEHU, Shillong.                                        |
| 6. Mr. A.K. Handique   | : | Gauhati University, Gauhati.                           |

**10. Zunheboto College**

The Zunheboto College a new College in Nagaland has completed 3 (three) academic sessions in 1982-83.

The College started its first evening session in the Government High School at Zunbhoto in 1980-81. Classes were run between 3.00 p.m. to 8.00 p.m. The College was shifted to the present campus in the 1981-82 session and classes are running in the day shift. Since the College is situated 4 Km. away from the town, the Nagaland State Transport provided transport service to both teachers and students.

### **Extension of College Campus/Buildings**

Besides the 3 (three) existing buildings which were donated by the S.B.A.K. (the Sema Baptist Association), the college has now 2 (two) more staff quarters which were about Rs. 40,000/- from the college Fund. The College Football ground has also been completed at the end of 1982-83 session. The work of the playground has been carried out by the army personnel of the Mountain Division.

### **Courses of Studie:**

- Pre-University (Arts) - English, Alt. English, Economics, Pol.Science, History and Geography.
- Degree Course (Arts) - English, General Foundation Course, Elective English, Economics, Pol. Science, History and Geography.

### **EXTRA CURRICULAR ACTIVITIES**

Students of the College are taking keen interest in the field of Sports and Games. The college teams participated in the district sports meets as well as in the Inter-Collegiate Sports meets organised by NEHU. Other literary pursuits like debates, extempore speeches and music competitions are also encouraged in the college

**FINANCE :** The College depends for its income mainly on the voluntary donations and contributions. It has received Grant-in-aid from the Government of Nagaland from the Session 1981-82. It received Rs.65,000/- as Grant-in-aid from the Session 1982-83. The College has not received any financial assistance from the U.G.C. till 1983.

## 11. Patkai Christian College

Courses/Subjects taught in 1982-83 Session.

P.U.C. (Arts) English, Political Science, Economics, History, Education, Logic, Philosophy and Horticulture.

Degree Course (Arts) : English, Alt. English, Foundation Course, Pol.Science, Economics, History, Education, Logic, Philosophy & Horticulture

Conference/Seminars etc. organized in the College or attended by the teachers outside the college.

Refreshers' Courses for the departments of Economics were organized in the College Foundation Course of North-Eastern Hill University.

Names of Teachers doing research for M. Phil/Ph.D. during the year.

1. Mr. N.V. George is doing research for Ph.D.

2. Mr. C.D. Koshy is doing research for M Phil.

Any other achievement of the College during the session : College Farm Development project in Poultry, Fishery (fish hatchery) Piggery, orchard has been developed in the college campus.

## Nagaland College Education

Course/Subject taught in 1982-83 session

B. Ed Course :

1. Course - I      Teacher and Society
2. Course - II     Educational Psychology
3. Course - III    Educational Technology
4. Course - IV     Problem & Education in the North-Eastern Region.
5. Study of School System.
6. Course - VI
  - a. Adult & non-formal Education
  - b. Population Education
  - c. Educational & Rural Development.

- d. Special Education for the gifted and the backward.
- e. Educational guidance.
- 7. Course VII & VIII - Teaching Specialization (any two).
  - a. Life Science
  - b. Physical Sciences
  - c. Social Science (i) History) (ii) Geography
  - d. Home Sciences.
  - e. Mathematics
  - f. English
  - g. Indian Languages (taught at the Secondary/High School) in the area. Under-graduate teachers training course :

Under-graduate teachers training course is a non-university course conducted for the benefit of those teachers who have passed P.U./Matriculate.

### 13. Champha College, Champhai.

Courses/Subjects taught in 1982-83.

P.U.C. (Arts) : English, Mizo, History, Economics, Pol. Science, Education and Geography.

D:gree Course (Arts) : Same subjects as above.

Name of Teachers doing Research for M.Phil during the year 1982-83.

Mr. F. Lalhmingoanga and Mr.Lalnunmawia are doing research for M.Phil.

The College caters to higher education for the rural poor. Most of the students of this College work in paddy field during the day. Some are employed in the construction work of the college building. In the evening they attended classes in the College. This is the greatest achievement of the College.

### 14. Hnahthial College, Hnahthial.

Subjects taught in 1982-83 Session :

English Mizo (MIL), (Elective), Political Science, Edu-

cation, Economics and History.

Conference/Seminars/Workshops attended by teachers outside the College.

a. Two lecturers attended the Workshop in General Foundation Course held in Shillong in February, 1983.

\* B. One lecturer attended the Workshop for College Teachers in Mizo at Aizawl from March 11-22, 1982.

#### 15. Mizoram Institute of Education :

Courses/Subjects taught in 1982-83 session are :-

i) Teacher and Society, ii) Educational Psychology ; iii) Education in the N.E.Region iv) Study of School system, v) (a) Adult and non-formal Education (b) Education and Development. (vi & Vii).

(a) Physical Science (b) History (c) Mathematics  
(d) English (e) Geography (f) Home Science and  
(g) Mizo.

#### 16. Luangtlai College :

a. Courses taught-P.U. Classes only.

b. Principal Conference (Fourth) at Shillong on February 1983 was attended by the Principal.

c. Foundation Courses starting from 4th Feb. '83 was attended by the Principal and one Lecturer.

d. Workshop for lecturers in Mizo at Aizawl from March 11-22, 1983 was attended by one lecturer.

e. A lecturer attended the 4th Refresher Course in Economics at Aizawl in September 1983.

#### 17. Saiha College :

Courses/Subjects taught ; English, Alt. English, Mizo (MIL), Economics, Pol. Science, History and Education.

Seminars organized by Mizo (MIL), Economics and History Departments of NEHU were attended by 3 (three) lecturers at Aizawl and Shillong. The Programme Officers

(NSS) attended the Programme Officers' (NSS) conference at Aizawl. The Principal also attended Principals' Conference held at Shillong in February, 1983.

The Government of Mizoram sanctioned the following grants-in-aids during the year 1982-83

1. Recurring Grants-in-aids for general maintenance for the salary of Teaching Staff on basic pay and non-fourth allowance basis. Other grants for furniture, library and building were also renewed. Donations from individuals were also received.

The College organized National Service Scheme Camp at Pangrang village with the help of North-Eastern Hill University. Fifty (50) students and 3 (three) Lecturers with a large number of local people attended the camp.

1. Paper I Principles & Problem of Elementary Education
2. Paper II Child behaviour.
3. Paper III Content & Methodology of teaching English
4. Paper IV Content cum methodology of teaching social studies
5. Paper V Content cum methodology of teaching mathematics.
6. Paper VI Content cum methodology of teaching general Science.

The name of the teacher doing research for M. Phil/Ph. D. during the year.

1. Mr. R. N. Bhattacharjee, Lecturer has submitted his final Ph. D. work to Gauhati University, Assam.

Any other achievement of the College during the session :

The College has undertaken the task of evaluating the Text Books for primary and Secondary Education in the State.

**Mizoram Colleges :****1. Zirtiri Women's College, Aiawl**

Courses/Subjects taught during 1982-83 Session.

P. U. C. (Arts); English, MIL (Mizo), History, Economics, Education Political Science, Home Science.

- a) The Principal attended the Principals' conference held in Shillong from February 4-7, 1983.
- b) Work-shop on Foundation Courses was attended by two members of staff from February 5 to 11, 1983.
- c) Freshers' Social cum-Foundation Day celebration was held on Friday the 20th of August, 1982. The Minister I/c of Education was the Chief Guest.
- d) The Teachers' Day was celebrated on the 8th September, 1983.
- e) The Nursing Superintendent gave a lecture on health to the staff and the students on October 8, 1982.

**Pachhunga University/College**

Courses/Subjects taught in 1982-83 session.

English, Mizo, History, Pol. Science, Economics, Education, Philosophy, Geography, Botany, Chemistry, Physics, Zoology and Sociology.

In addition to those above mentioned subjects, General Foundation courses in the degree level both for B.A/B.Sc. is also being taught. The plus 3 degree course which was introduced during 1981-82 has entered its second year. The University has already proposed to introduce subjects like Statistics, Commerce and also the non-traditional course like Forestry in the College. Particulars of financial assistance received from UGC during the year 1982-83.

Received a sum of Rs. 16,500/- (Rupees sixteen thousand five hundred) only from UGC for construction of College Cistern vide No FA. 1-6/MN/80 9084, of 30.3.1982.

Conference, Seminars etc. organized in the College or attended by the Teachers outside the College.

The University had organized a workshop for General Foundation Course at Shillong which was held on 11.2 1983. Foundation course was introduced as subject in the new 3 degree course, 1 year.

Mr. S.H. Choudhuri and Mr. Tawngnga of this College attended the course at Shillong.

Names of Teachers doing Research for M. Phil/Ph.D during the year of 1982-83.

C. Thanthianga, Lecturer of Zoology was released vide No. PIC. 12/Acad/82-83/601. dated 21.12.82 (FU) to enable him to study abroad in Ohio State University, USA.

During the session 1982-83 the college had not faced any problem of students indiscipline. In fact, from last year onwards the student discipline has been greatly improving. As mentioned in the earlier report, the college had already taken steps to improve the attendance as well as University results. It may be mentioned here that the Students' Union election and College Week were conducted smoothly. The relationship between students and teachers is very cordial and it is expected that the rise in the standard of education in the College will further improve.

19. Aizawl College: Courses/Subjects taught in 1982-83 session

English, MIL (a) Mizo (b) Alternative English, Political Science,

Economics, Education, History, Foundation Course, Mathematics. Name of teachers doing research for M. Phil during the year.

1. Lalruanga 2. Lalchungnunga and M.L. Dutt.

20. Hrangbana College: Courses/Subject taught in 1982-83 session

<i>P.U.C. (Arts)</i>	<i>P.U. (Commerce)</i>	<i>B.A.</i>
English	English	English
MIL (Mizo)	MIL (Mizo)	MIL (Mizo)
Economics	MIL (Mizo)	Economics
Pl. Science	etc ,	Pol. Science
History		History
Education		Education.

2. Students discipline in the College—Generally good discipline of students has been maintained in the College during 1982-83.

3. (a) and (b) attached in a prescribed proforma.

4. Achievement of College during 1982-83.

- i) Permanent Principal is appointed during 1982-83
- ii) Appointment is given to 4 lectures in the College during 1982-83.
- iii) Enrolment of students is rapidly increasing.

## **X. DEPARTMENT OF PHYSICAL TRAINING, SPORTS & GAMES**

On August 10, 1982, Mr. M.G. War, Director of Sports was reverted back to the Government of Meghalaya and Dr. Imdad Hussain, Dean of Student' Welfare took charge in addition to his other duties. The newly constituted Sports Board met only as an informal meeting which was presided by Prof. Mrinal Miri in the absence of the Chairman, Dr. B.D Sharma, Vice-Chancellor who was indisposed. The Board approved the holding of the inter-College Sports and Games in December, 1982.

### **Inter-College Sports**

The Inter-College Sports could not be held owing to a variety of problems. Several colleges expressed their inability to participate as students had to prepare for the examinations. In Shillong, due to the non-availability of playgrounds and the delay of the district authority in giving clearance for the meet in time has hampered the Sports programmes of the University.

However, the Inter-College Cricket Tournament was conducted at Shillong from Nov. 20 to December, 1982, Six colleges participated, involving nearly 90 students from Meghalaya Nagaland and Mizoram. In the two day final matches Shillong College defeated St. Anthony's College. Shillong College was declared as Champion.

### **Participation in Inter-University Tournaments**

On the basis of the performance in the Inter-College Cricket tournament the University Cricket team was selected and intensive coaching was provided by Mr. P. J. Lamare, Coach of the department for the participation in the Inter-University Cricket (East Zone) tournament. The Inter-

University Cricket was held at Patna. The NEHU team was defeated in the first match. The University Football Tournament and Table Tennis team were also formed on the basis of selection matches conducted by the department in Shillong. In the Inter-University Football Tournament held at Ranchi, NEHU team reached the quarter finals.

Although the results of the Inter-University Tournament has not been very impressive yet considering the circumstances, in which the teams were placed, their performance is not entirely without credit. Since participation at the Inter-University level had been after a gap of several years, and theirs was inadequate practice as no Inter-College tournament could be held in the last two years. The Students could not stay away from their classes and exploitation of the players could not be given thrust and their performance, could not be improved, so as to reach the national and international standards in the field of Sports & Games.

## **XI. CAMPUS DEVELOPMENT AND ENGINEERING CELL**

In the previous report, a brief mention has been made about the master plan of the University Campus at Shillong which includes the Academic Complex, Housing Complex, Sports Complex and Recreation Centre for the students. To develop the permanent Campus of the NEHU at Shillong, the building programme is proposed to be carried out in a phased manner, the first phase for student population of 1,000, the second phase for another 1,000 and the last phase for the ultimate strength of 4,000.

The first phase programme consists of the construction of the Academic Complex for six schools and the Housing Complex for 200 Nos. for quarters for the teachers and staff and hostels for the students. The Architect has therefore prepared the plans and the estimates for Rs 0.5 crores for the part A-I project in this respect and the same is yet to be approved by the University Grants Commission. At present the University Grants Commission has approved in principle at the initial stage the execution of hostel buildings for 200 students and 50 quarters for the teachers at an estimated cost of Rs. 1.57 crore only. The construction works have been taken up by the University and it is expected that these buildings would be completed within the current financial year of 1983-84.

In addition to the building project it has also been proposed to provide necessary facilities and internal road services in the campus area. For this purpose we have obtained UGC's approval for construction of two ring roads around the Housing Complex and the Academic Complex at an estimated cost of Rs. 63 lakhs. Necessary arrangement for allotting the works to the contractors has since been made.

With the passage of years, the University is growing there has, therefore been a great demand for hostel accommodation from the students from different parts of the region and the rural areas as well. As the University is keen to meet the immediate demand of the students, it was felt necessary that the construction of temporary hostel buildings with Shillong-type specification be taken as an alternative proposal with an estimated outlay of Rs. 2 crores in the first phase. Under this proposal the following buildings are proposed to be constructed :

1. Hostel building 800 seats — (a) Single seated room-300  
(b) Double seated room-500  
-----  
-800
2. Research Students/Staff — 200 seats (in two room suites)
3. School of Social Sciences — (i) Lecture room;  
(ii) Library for Social Sciences;  
(iii) Auditorium;  
(iv) Co-operation Section.

The University Grants Commission has agreed to the above proposal for undertaking the construction of 800 students hostel and 150 quarters for the teachers only. In this regard, the plans and estimate amounting to Rs 2.16 crores for hostel building and Rs 3-18 crores for quarters were submitted to UGC. Their approval and sanction are awaited.

### **Mizoram**

The Pachhunga University College was taken over on 19th April, 1979. On taking over of the College by the University, it was felt necessary that the construction of the College and buildings be taken up to improve it to

the required standard. M/S. Dulal Mukherjee, the Architects and Engineers were appointed to carry out the improvement works has prepared and submitted the plans to the extent of Rs 2,20,65,700/- for the purpose. The estimate was technically cleared by the North-Eastern Council and the same is awaiting UGC's sanction.

### **Agriculture College at Nagaland**

Some progress was also recorded with regard to the transfer of Agriculture College at Nagaland. The proposed Agriculture College site at Punglon was visited by a team of experts. It was suggested that the cement concrete boundary pillar be erected along the boundary of the proposed site, thereafter, the site may be handed over formally to the University for its development.

## XII. EXAMINATION DEPARTMENT

The enrolment in the University rose from 24330, during 1981-82 to 24533 of 1982-83, recording a 0.83% increase. The enrolment for boys rose from 15986 to 15956, indicating a declining sign by 0.18% and for girls from 8344 to 8577; recording an increase of 2.79%.

The analysis of the statewide enrolment shows that the enrolment at P.U. level rose from 14583 to 15877, recording a rise of 8.87%. The enrolment for boys rose from 9515 to 10217 (+7.37%) and for girls from 5060 to 5722 (+12.9%). There was a considerable variation in the rate of growth of enrolment between different Streams which is given in the following table

--	--	--	--	--

TABLE  
ATTACHED  
SEPARATELY

It is thus clear that the highest rise has been in P.U. Arts for boys and in P.U. Commerce for girls. For other streams, the rise and fall of the number of students enrolled can be determined at the table shown above.

The growth rate in different states under the University has been significantly different. The highest growth has been in Nagaland.

The Proportion of girls amongst the total students was 4437 in Meghalaya, 1413 in Nagaland and 1510 in Mizoram. Their proportion in Science was 684 in Meghalaya, 106 in Nagaland and 66 in Mizoram.

The overall performance of the students in P.U. Examination was 30.7% in 1983 compared to 35.3% in 1982 in Arts, and 37.6% in 1983 compared to 35.3% in 1982 in Arts, and 37.6% in 1983 compared to 37.4% in 1982 in Commerce. Out of the successful candidates declared in P.U. Arts (1983) 3.25% were in First Division, 32.29% in Second

Division and 64.45% in Third Division, compared to 3.41% (1st.Div.) 25.88% (2nd Div) and 70.69% (3rd Div) respectively in 1982. For P.U. Science (1983), 19.30% were in 1st. Division 55.79% in 2nd. Division and 24.90% in 3rd. Division compared to 22.39% (1st.Div) 48.00% (2nd.Division) and 29.60% (Third Division) in 1982.

For P.U. Commerce, the percentages of pass in 1983 were 2.80% in 1st. Division, 34.83% in 2nd. Division, and 62.35% in 3rd. Division, compared to 5.64% (1st.Div.), 42.37%(2nd.Div.) and 52.54%(3rd.Div.) in 1982.

The result in different stream has varied considerably. The percentage of students who were declared successful in 1983 was 38.2% in Arts, 50.00% in Science and in Commerce 36.3%. The proportion of the successful candidates in First, Second and Third Division in Arts was 4.214, 1020, in Science 51, 64.85 and in Commerce Nil, 19.95. The girls on the whole fared better with 50% approximately in all subjects in Arts (Degree).

The quality of results has varied considerably in different institutions in the constituent unit. The highest percentage was recorded by St. Mary's College at the B.A.Examination 1983, with 67.82% successful out of which 0.86% were in First Class, 45.21 in Second Class and 21.73 in Third Class. At the B.Sc. Examination, the highest percentage was recorded by St. Edmund's College with 65.67% successful out of which 38.80% were in First Class, 13.43% were in Second Class and 13.43 in Third Class. In B.Com. Examination, St. Anthony's College recorded the highest percentage with 33.33% out of which 10.71% were in Second Class and 22.61 in Third Class, and no candidates secured 1st Class.

On the other extreme in some institutions the pass percentage was as low as 17.14%.

The analysis of the result subject-wise shows that the highest proportion of successful candidates was in History and Political Science and the lowest was in Geography. In B.Sc. the highest percentage was in Botany and lowest in Mathematics.

## ANALYSIS OF PRE-UNIVERSITY (SCIENCE) EXAMINATION RESULTS: 1983.

Name of the College	REGULAR		APPEARED				TOTAL	
	GENERAL		SCHEDULED TRIBE		TOTAL		TOTAL	
	Male	Female	Male	Female	Male	Female	Male	Female
St. Edmund's	97		54		151		60	9
St. Mary's		35						
Jowai Govt.	2		18	9	25		20	
St. Anthony's	129		187		316		155	11
Sankardev	73	3	35	8			80	8
Lady Keane Girls'		35		64			58	18
Shillong	37	2	43	6				
Tura Govt.	27	6	31	12				
Total of Meghalaya Colleges	365	81	415	124	780		205	
Pachhunga Univ.	5		147	35			152	35
Lunglei College			5	3			5	3
Science (Kohima) Nagaland	17	13	97	30			114	43
Total of Three States	387	94	664	192			1051	286

STREAM	Course	1981		1982		1983		%		TOTAL
		Male	Female	Male	Female	Male	Female	Male	Female	
A	P. U.	6239	4342	10581	6740	4878	11618	+8.02%	+12.34%	+9.80%
R	B. A.	3451	2197	5648	2805	1799	4604	-18.71%	-18.11%	-18.48%
T	M. A.	415	279	694	461	313	774	+11.08%	+12.18%	+11.82%
S	M. Phil	22	17	39	41	26	67	+86.36%	+52.94%	+71.79%
S	Ph. D.	3	4	7	18	5	23	+50.0%	+25%	+28.57%
S	P. U.	2185	645	2830	2321	698	3019	+6.22%	+8.21%	+6.65%
C	B Sc.	780	260	1042	582	190	772	-24.61%	-27.48%	-25.91%
I	B Sc. (H)	-	21	21	-	23	23	-	+9.52%	+9.52%
E	M. Sc.	119	54	173	175	67	182	-3.36%	+24.07	+5.20
N	Ph. D	39	5	44	43	10	53	+10.25	+100.0	+20.45
CE										
COMMERCE	P. U.	1091	81	1172	1107	133	1240	+1.46	+39.09	+5.80
	B. Com.	565	39	604	497	41	538	-12.03	+5.13	-10.92
	M. Com.	24	3	27	40	4	47	+76.66	+33.33	+62.96
AGRICUL- TURE	P. U.	NIL			49	13	62	-	-	-
	B. Sc.	172	26	198	164	22	186	-4.65	-15.38	-6.66
EDUCATION	B. ED.	327	219	546	364	214	578	+11.31	-2.28	+3.86
	M. ED.	28	25	53	18	2	20	-35.71	-92.00	-62.26
	M. Phil	2	3	5	NIL	NIL				
	Ph. D.	3	3	6	NIL	NIL				
LAW	L. L. B.	521	119	640	591	149	730	+13.43	+16.80	+14.06
GRAND TOTAL		12286	4444	16730	13506	18572	24638	62.79	62.79	+0.83

ANALYSIS OF PRE-UNIVERSITY (SCIENCE) EXAMINATION, 1983

NUMBER OF PASSED

	GENERAL						S. TRIBE					
	Male			Female			Male			Female		
	I	II	III	Total	I	II	III	Total	I	II	III	Total
1.	48	44	4	96	—	—	—	—	9	29	9	47
2.	—	—	—	—	15	15	1	31	—	—	5	15
3.	—	1	1	2	—	—	—	—	1	1	—	2
4.	11	30	16	57	1	—	—	1	28	17	—	46
5.	—	5	7	12	1	—	—	1	2	7	—	9
6.	—	—	—	—	1	8	4	13	2	—	13	21
7.	1	3	—	4	—	—	—	—	2	1	1	3
8.	9	5	1	20	2	1	2	4	5	5	2	10
<b>Non-Science</b>	69	90	36	191	8	24	8	49	11	67	39	117
<b>Total</b>	68	97	41	206	8	33	8	58	11	29	13	42
<b>Pushangs</b>	—	—	—	—	—	—	—	—	—	—	—	—
<b>Uxiv</b>	—	—	—	—	—	—	—	—	—	—	3	3
<b>Lunglei</b>	—	—	—	—	—	—	—	—	—	—	—	—
<b>Midzema</b>	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total</b>	68	97	41	206	8	33	8	58	11	110	65	187
<b>Total of 3 States Science (Nagaland)</b>	3	7	5	15	9	9	—	9	14	11	7	25

N.B. :- There is no candidate from Scheduled Caste.

## ANALYSIS OF PRE-UNIVERSITY SCIENCE (EXAM) 1983

Name of the College	CERTAIN SUBJECTS APPEARED				CERTAIN SUBJECTS PASSED			
	GENERAL		S. TRIBE		GENERAL		S. TRIBE	
	M	F	Total	Total	M	F	Total	
St. Edmund's	1		1					
Jowai Govt.	1	4	1	4	1	1	1	
St. Anthony's	3		6	9	5		7	
Sankardev	4		3	7	2		4	
Lady Keane				1				
Shillong		1		1				
Tura Govt.	3			3	1		1	
Meghalaya								
Total	10	7	21	7	5	3	13	
Fachhunga Univ	2			2				
Lunglei College	1			1				
Mizoram Total	2	2	12	2	3	1	3	
Science (Kobirna)								
Nagaland	91	12	95	12	2	6	20	
Total of 3 States	112	21	128	21	7	10	36	

N.B. :- There is no candidate from Scheduled Caste



2	28	4	30	4	2	2	10
2	3	5	7	10	2	4	2
69	32	76	145	39	24	9	24
111	47	30	142	66	27	35	2
8	5	5	13	5	Distinc.	3	8
180-77	106	41	287	118	27	85	26
					15	16	12
					88	43	10
					9	40	2
					4	11	59
					4	17	1

RESULT ANALYSIS OF DEGREE EXAMINATION (BSC) 1983

Name of College	CERTAIN SUBJECTS APPEARED		CERTAIN SUBJECTS PASSED	
	GENERAL	S TRIBE	GENERAL	S TRIBE
	Male	Female	Male	Female
St Edmund's	3	3	2	2
St. Mary's (Home Science)	2	2	2	2
Tura Govt College	1	1	1	1
Shillong	1	1	1	1
Lady Keane	2	3	2	2
St. Anthony's	7	9	4	5
Total of Meg	11	24	7	8
Pachhunga Univ.	2	2	2	3
Shillong	1	1	1	2
Science (Kohima)	1	25	1	2
Total of 3 States	5	79	7	16

N. B. Scheduled Caste - Nil

## ANALYSIS OF P.B. UNIVERSITY (COMMERCE) EXAMINATION RESULTS : 1983

Name of the College	REGULAR						TOTAL
	GENERAL		S. TRIBE		APPEARED		
	M	F	M	F	M	F	
St. Anthony's	58		98	31	281	35	
Shillong	233	4	167	31	400	33	
Megh. Total	75	33	65		136		
Dumagun (Nagaland)			45	9	45	1	
Prangdoh (Mizoram)			275	40	581	47	
Total of 3 States	306	7					

N.B. Scheduled Candidate Nil.

## ANALYSIS OF PRE-UNIVERSITY COMMERCE) EXAMINATION, 1983

Name of the College	NUMBER PASSED						S. TRIBE						M	F		
	GENERAL			S. TRIBE			GENERAL			S. TRIBE					M	F
	I	II	III	I	II	III	I	II	III	I	II	III				
St. Anthony's Shillong	3	14	25	1	1	1	15	1	11	24	3	2	36	5		
Megh. Total	3	23	31	1	1	1	57	1	13	32	3	2	46	5		
Dimapur (Nagalang)	1	10	24	1	1	1	35	1	2	5	4	1	20	5		
Hrangbana (Mizoram)	4	33	55	2	2	2	92	2	21	51	7	3	73	10		
Total of States																

N. B.: No candidate from Scheduled Caste.

Name of the College	CERTAIN SUBJECTS APPEAR						CERTAIN SUBJECTS PASSED						TOTAL	
	GENERAL			S. TRIBE			GENERAL			S. TRIBE				TOTAL
	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL		
St. Anthony's Shillong	8	11	19	3	10	13	4	5	9	1	12	13		
Megh. Total	24	7	31	3	14	17	2	7	9	1	21	30		
Dimapur (Nagalang)	32	18	50	3	19	22	23	30	53	1	63	116		
Total of Two States	44	48	92	2	33	35	30	65	95	2	128	220		
	76	66	142	5	53	58	30	88	146	1	189	335		

N.B. Scheduled Caste Candidate Nil.

RESULT ANALYSIS OF 1983 DEGREE EXAMINATION (B COM.)

Name of the College	REGULAR						APPEARED						REGULAR						PASSED											
	GENERAL			S. TRIBE			TOTAL			GENERAL			S. TRIBE			TOTAL			GENERAL			S. TRIBE			TOTAL					
	M	F	Total	M	F	Total	M	F	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
St Anthony's (P)	25	40	65				4	4	8	4	4	8				4	4	8				4	4	8				4	4	8
" (Hons)	15	4					24	8	32	24	8	32				24	8	32				24	8	32				24	8	32
Shillong (P)	66	2	68	7	32	39	8	9	17	8	9	17	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
" (Hons)	25	1	26	2	27	29	9	2	11	9	2	11	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Megh. Total (P)	91	2	93	7	197	204	28	9	37	28	9	37	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4
" (Hons)	40	1	41	6	46	52	17	2	19	17	2	19	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Dimapur (P)	47	1	48	34	81	115	22	2	24	22	2	24				22	2	24				22	2	24				22	2	24
Nagaland	138	3	141	8	278	286	11	50	61	11	50	61	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4
Total of 2 (P)	40	1	41	66	46	112	17	12	29	17	12	29	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
States (Hons)	178	4	182	9	324	333	13	17	30	13	17	30	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Grand Total																														

N.B. Scheduled Caste Nil.

**RESULT ANALYSIS OF DEGREE EXAMINATION OF B. COM. 1983.**

Name of the College	CERTAIN SUBJECTS APPEARED				CERTAIN SUBJECTS PASSED					
	General		S. Tribe		General		S. Tribe		Total	
	M	F	M	F	M	F	M	F	M	F
Sd. Anthony's	8		4		6		2		8	
Sikong	1		8		6		2		8	
Mega Total	9		12		12		16		28	
Dimapur (Nagaland)	9		5		4		3		7	
Total of Two States	18		17		10		5		15	

N. B.: Scheduled Caste — NIL

**NAGALAND : ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION RESULT 1983.**

Name of the College	REGULAR APPEARED				Total					
	General		S. Tribe		General		S. Tribe		Total	
	M	F	M	F	M	F	M	F	M	F
Patkai Christian	2	2	34	46	36	48	56	47	92	95
Mount Tiwi			30	10	30	10	30	10	60	20
Dimapur	20	34	163	72	183	106	183	106	366	212
Zunheboto	4		90	15	94	15	38	14	132	29
Fagu Abi	12	6	127	181	139	187	139	187	326	374
Tuensang	2	2	20	4	22	6	38	6	60	12
Kohima	21	13	388	105	409	118	409	118	818	236
Nagaland total	65	57	828	332	893	389	893	389	1282	728

N. B. 1 Scheduled Caste appeared — Nil.

## ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION RESULTS : 1983 Nagaland.

Name of the College	N U M B E R						P A S S E D						Total
	GENERAL			S. TRIBE			GENERAL			S. TRIBE			
	Male	Female		Total	Male	Female		Total	Male	Female		Total	
I II III	I II III	I II III	M F	I II III	I II III	I II III	M F	I II III	I II III	I II III	M F		
Patkai Christian	2	2	2	2	17	13	8	30	37				
Mount Tiyi	—	—	—	—	—	5	3	5	3				
Dimapur	1 4 6	8	7	11 15	5	31	10 22	37	32				
Zunheboto	1				4		1	4	1				
Fazl Ali	2 2		1	4	4	17	1 13	21	14				
Tuensang	1	1		—	1	—2	1	3	1				
Kohima	4	3	3	6 6	20	69	11 19	89	30				
<b>NAGALAND TOTAL</b>	<b>2 8 16</b>	<b>13</b>	<b>11</b>	<b>26 24</b>	<b>1 47 141</b>	<b>2 10 80</b>	<b>189</b>	<b>118</b>					

N. B. : Scheduled Caste Passed Nil,

## ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION RESULTS 1983.

## NAGALAND

Name of the College	CERTAIN SUBJECTS APPEARED						CERTAIN SUBJECT PASSED					
	General		S. Tribe		Total		General		S. Tribe		Total	
	M	F	M	F	M	F	M	F	M	F	M	F
Patkai Christian			1	3	1	3			1	1	1	1
Mount Tiyi			22		22			6	6		6	
Dimapur	7	12	41	18	48	30	1	4	14	10	15	14
Zunheboto			11	4	11	4	15	4	4	1	4	1
Fazl Ali		2	54	64	54	66		1	9	19	9	20
Tuensang	1		14	4	15	4			7	2	7	2
Kohima	10	5	160	68	170	73	5	2	62	24	67	26
<b>Nagaland Total</b>	<b>18</b>	<b>19</b>	<b>303</b>	<b>161</b>	<b>321</b>	<b>180</b>	<b>6</b>	<b>7</b>	<b>103</b>	<b>57</b>	<b>109</b>	<b>64</b>

N. B. : Scheduled Caste Appeared &amp; Passed Nil.



## RESULT ANALYSIS OF DEGREE EXAMINATION (B.A.) : 1983.

Name of the College	CERTAIN SUBJECTS APPEARED						CERTAIN SUBJECT PASSED					
	General			S. Tribe			General			S. Tribe		
	M	F	Total	M	F	Total	M	F	Total	M	F	Total
Patkai Christian :												
Mount Tiyi												
Dimapur	3	5	8	23	13	36	2	1	3	11	7	18
Tuensang		2	2	18	1	19		1	1	8	1	9
Fazl Ali	5	3	8	56	24	80		3	3	22	16	38
Kohima	11	1	12	89	23	112	8	1	9	37	16	53
Zunheboto					1	1						
<b>Nagaland Total</b>	<b>19</b>	<b>11</b>	<b>30</b>	<b>201</b>	<b>65</b>	<b>266</b>	<b>10</b>	<b>6</b>	<b>16</b>	<b>90</b>	<b>43</b>	<b>133</b>

N. B. : Scheduled Caste Candidate Nil.

## ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION RESULTS 1983 MIZORAM

Name of the College	General		S. Tribe		S. Caste		Total		NUMBER OF PASSED SCHE DULED TRIBE							
									MALE			FEMALE			TOTAL	
	M	F	M	F	M	F	M	F	I	II	III	I	II	III	M	F
Champhai			57	24			57	24	3	16	6	19	6	19	6	6
Aizawl			674	267			674	267	18	61	13	54	79	79	67	67
Serchhip			47	20			47	20	3	16	4	19	4	19	4	4
Lawngtlai			34	3			84	3	1	12	2	13	2	13	2	2
Pachhunga	1	1	79	55			80	56	2	6	1	8	10	8	19	19
University																
Lunglei			49	19			49	19		6		4	6	4	6	4
Hnahtial			19	13						1		1	3	1	4	4
Siaba			8	2			8	2		1		1	1	1	1	1
Zirtiri Womens'				30				39				6	7		13	13
Kolasib			17	3			17	3		1				3	3	3
Krangbana			83	73			83	73	3	11	7	11	14	14	18	18
Total of Mizoram Colleges	1	1	1067	518			1068	519	32	531	1	36	301	163	138	138

**MIZORAM**                      **NORTH-EASTERN HILL UNIVERSITY**  
**ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATIONS RESULT : 1983**

Name of the College	Certain Subjects Appeared						Certain Subjects Passed								
	General			S. Tribe			C.			S. Tribe			S. Caste		
	M	F	Total	M	F	Total	General	M	F	Total	M	F	Total		
Champhai	17	9	26	17	9	26	10	7	17	10	7	17			
Aizawl	350	148	498	350	148	498	65	23	88	65	26	91			
Serchhip	1	15	16	15	6	21	10	3	13	10	3	13			
Pachbunga Univ.	42	15	57	42	15	57	16	11	27	16	11	27			
Lunglei	1	48	49	48	23	71	1	8	9	16	9	25			
Saiha	36	6	42	36	6	42	3	3	6	3	3	6			
Ziriri Womens'	—	9	9	—	9	9	—	2	2	—	2	2			
Kolasib	26	2	28	26	2	28	5	—	5	5	—	5			
Hrangbana	29	18	47	29	18	47	4	5	9	4	5	9			
<b>Total of</b>	<b>2</b>	<b>563</b>	<b>565</b>	<b>563</b>	<b>255</b>	<b>818</b>	<b>1</b>	<b>129</b>	<b>65</b>	<b>129</b>	<b>65</b>	<b>129</b>			
Mizoram College	2	563	565	563	255	818	1	129	65	129	65	129			

## RESULTS ANALYSIS OF DEGREE EXAMINATION (B.A.) : 1983.

Name of the College	Examinations	Regular Appeared										Regular Passed																							
		General					S. T. S. C.					Total			Schedule Tribe			Total																	
		M	F	M	F	M	M	F	M	F	M	M	F	M	I	II	SP	I	II	SP	M	F	M												
Champhai	B.A. (PC)			9	8								9	8									1					2					1		
	B.A. (H)	7		4									7	4													2						6		
Aizawl	B.A. (PC)	157		53							157	53									31					23					31				
	B.A. (H)	41		8							41	8														4					24				
Serchhip	B.A. (PC)	22		13							22	13											5			1					5				
Pachhunga University	B.A. (PC)	85		19							85	19									20					12					20				
	B.A. (H)	42		26							42	26									7					4					11				
Lunglei	B.A. (PC)	30		8							30	8									8					12					1				
	B.A. (H)	5		1							5	1																							
Saiha	B.A. (PC)	8									8															4					4				
Kolasib	B.A. (PC)	13		5							13	5									7					2					7				
Total of Mizoram Colleges	B.A. (PC)	324		106							324	106									80					41					80				
	B.A. (H)	95		39							95	39									4					17					41				



## ANALYSIS OF PRE-UNIVERSITY (ARSS) EXAMINATION RESULTS : 1983

Name of the College	REGULAR		S. Tribe		APPEARED		Total	
	General		M. F		M. F		M. F	
	M.	F	M.	F	M.	F	M.	F
St. Edmund's	24		58	98	82		159	
St. Mary's		61		142		203		159
Synod.	22	17		61		69		61
Jewel Govt.			13	7		14		7
Mangalore	1							
Terna Govt.	78	43	169	104	247		147	
Mandipathar	16	7	41	20	57		27	
Lady Keane Girls'		152		233			385	
Seng. Khasi	2			23		38		25
Sankardev	70	21	58	9		128		30
St. Anthony's	123		197			320		
Shillong	59	16	46	48		105		58
Union Christian	13	3	29	16		42		22
Private	15	90	70	106		85		196
Mangalagiri	426	410	964	864	1390		1274	
Grand Total of 3 states	492	468	2859	1714	3351		2182	

N.B. : Scheduled Caste Nil.

## ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION; 1983

Name of the College	NUMBER OF PASSED														Total		
	General						S. Tribe						Total				
	Male			Female			Male			Female			Total				
	I	II	III	I	II	III	M	F	Total	I	II	III	I	II	III	M	F
St. Edmund's	3	9	10				22		3	17	16					36	
St. Mary's				11	34	10		55					1	28	28		57
Synod	3	4		1	5		7	6					11	34		45	28
Nongstoin															1		
Tura Govt.	1	16	1	6	5		17	12					2	33	1	6	9
Jowai Govt.							1	1					3	7		3	18
Mendipathar	1				1			1									21
Lady Keane Girl's				4	15	36		52								34	52
Seng Khasi													3	9	2	1	12
Sankardev	1	3	11		2	3	15	5					1	9		1	10
St. Anthony's	19	48	18					85		4	20	43				67	
Shillong	5	8		1	1		13	2			1	11			6	12	18
Union Christian	2	7			2		9	2			5	12			5	9	14
Shillong Private	1	5			6	21	6	27				7			9	21	30
-Meghalaya Total	23	72	81	13	165	84	176	162		7	63	181	2	100	173	251	275
Grand Total of 3 States	25	90	97	13	78	95	202	186		8	142	453	5	186	340	603	531

N.B. SCHEDULED CASTE NIL.

## ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION, 1983

Name of the College	Certain Subjects Appeared						Certain Subjects Passed					
	General		S. Tribe		Total		General		S. Tribe		Total	
	M	F	M	F	M	F	M	F	M	F	M	F
St. Edmund's	2		1		3							
St. Mary's		2		1		3		2				
Synod	7	2	49	72	56	74	3	1	20	31	23	32
Jowai Govt.			15	16	15	16			8	14	8	14
Nongstoin			1	3	1	3			1	2	1	2
Tura Govt.	12	7	11	6	23	13	5	2	8	13	13	2
Mendipathar	4		11	4	15	4	2		1	2	3	2
Lady Keane		37	2	20		57		12		16		22
Seng Khasi			3	1	3	1			2		2	
Sankardev	8	10	8	1	16	11	3	4	3	6	6	4
St. Anthony's	3		18		21		2		11		13	
Shillong	6	8	8	1	18	4	2	1	2	1	4	2
Union Christian				1		1				1		1
Shillong			2	13	7	41	4	10	2	9	6	19
Private	5	28										
Meghalava Total	49	89	127	139	176	228	21	32	58	70	79	102
Grand Total	67	110	993	535	1060	645	27	40	250	192	317	232

of 3 States

N. B : Scheduled Caste NIL

## RESULT ANALYSIS OF DEGREE EXAMINATION (B. A.) 1963.

Name of the College	REGULAR APPEARED						REGULAR						PASSED						
	General			S. Tribe			General			S. Tribe			Total			S. Tribe			
	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	
St. Edmund's (P)	17	1	52	1	70	2	1	7	1	1	7	1	1	7	1	1	7	1	9
(Hons)	15		25		40			22		2				15		4			19
St. Mary's (P)	26		29		55			13		13				13		9			9
(Hons)	32		28		80			1		29				82		23			24
Synod (P)	12	6	102	94	114	160	4		4		4			23		19			19
(Hons)	3		23		26	20								1		4			4
Jesus Govt (P)			39	31	40	31								19		17			17
(Hons)			3	1	3	1								3		1			3
St. Anthony's (P)	59		83		142			37		37				36		36			36
(Hons)	18		31		46			5		4				10		9			19
Turs Govt (P)	23	23	53	54	76	77				8				4		8			9
(Hons)	4	2	2	3	6	5				2				1		1			2
Shilong (P)	29	6	28	20	82	36			34					4		4			7
(Hons)	4		3	8	7	9			2					2		1			3
U. C. C (P)	4	3	9	4	13	7				1				1		1			3
(Hons)			12											1		1			7

L. K. G. C. (B)	78	98	176	41	41	41	41
„ (Hons)	18	32	50	1	1	12	10
Seahardov (P)	36	21	77	12	2	2	2
„ (Hons)	12	7	19	1	16	1	1
Setig Khasi (P)	1	38	35	17	23	13	4
Private (P)	7	53	52	152	23	23	27
Mendipathar (P)	9	12	13	25	27	7	2
Meghalaya (B)	217	203	477	455	696	658	140
Total (Hons)	53	53	106	90	159	143	57
Grand (P)	259	229	1559	717	1420	946	255
of 3 States (Hons)	59	56	221	142	280	198	92

N. B.; Scheduled Caste : Appeared "2" One Passed in Simple Passed.

## ANALYSIS OF DEGREE EXAMINATION (B. A.) 1983

Name of the College	Certain Subject Appeared						Certain Subject Passed												
	General			S. Tribe			Total			General			S. Tribe			Total			
	M	F		M	F		M	F		M	F		M	F		M	F		
St. Edmund's	2	—	—	1	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—
St. Mary's	—	1	—	—	1	—	—	2	—	—	—	—	—	—	—	—	—	—	—
Synod	2	—	—	25	21	—	27	21	—	—	—	—	—	—	—	7	9	—	8
Jowai Govt.	—	—	—	12	10	—	12	10	—	—	—	—	—	—	—	7	4	—	7
Mendipathar	—	—	—	3	—	—	3	—	—	—	—	—	—	—	—	1	—	—	1
U. C. C.	1	—	—	2	1	—	3	1	—	—	—	—	—	—	—	1	—	—	1
Tura Govt.	5	2	—	5	5	—	10	7	—	—	—	—	—	—	2	1	—	1	3
Song Khasi	—	—	—	9	—	—	9	—	—	—	—	—	—	—	—	8	—	—	8
Lady Keane Girls'	—	—	—	—	13	—	1	32	—	—	—	—	—	—	—	—	7	—	—
Shillong	6	1	—	—	3	—	3	4	—	—	—	—	—	—	—	—	3	—	2
Sankardev	8	4	—	4	3	—	12	7	—	—	—	—	—	—	2	1	—	—	8
St. Anthony's	10	—	—	14	—	—	24	—	—	—	—	—	—	—	8	—	—	—	18
Private Centre	3	7	—	2	15	—	5	22	—	—	—	—	—	—	4	1	—	—	2
Shillong	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grand Total of Meghalaya	37	34	77	72	114	106	20	22	38	34	58	56							
Grand Total of 3 States	56	45	515	214	571	259	30	28	242	125	272	153							

N. B. : Scheduled Caste Candidate Nil.

RESULT ANALYSIS OF B.SC. AGRICULTURE : 1983

College of Agriculture NEHU B.So. (Agri.)	Appeared		Regular Passed						S.T.		Total													
	Genl.		S.C.		General		S.T.		Male	Female														
	M	F	M	F	M	F	M	F																
	6	1	25	1	—	—	31	2	—	—	1	—	23	1	—	4	18	7	—	2	—	29	2	
	Grade		D/A/B/C		D/A/B/C		M F		D/A/B/C		M F		D/A/B/C		M F		D/A/B/C		M F					

RESULT ANALYSIS OF P.G. DEPTS. END SEMESTER : 1983

PASSED

Depts.	Appeared				General												S. Tribe						
	S. T.		S. C.		Total		Male		Female		Total		Male		Female		Total						
	Genl.	M F	M F	M F	M F	M F	I II	P	I II	P	M F	M F	I II	P	I II	P	M F	M F					
Sociology	1	12	8	—	—	13	8	—	—	—	—	—	—	—	—	—	11	—	11	1	5		
English	10	3	20	15	—	30	16	3	5	2	3	—	—	10	3	—	11	4	—	6	3	15	
Pol. Sc.	—	2	28	7	—	28	9	—	—	—	—	—	—	—	—	—	1	25	1	—	7	—	27
Geography	7	—	7	—	—	14	—	3	3	—	—	—	—	6	—	—	2	2	—	—	—	—	4
History	—	3	29	15	—	29	18	—	—	—	1	2	—	—	3	—	28	—	—	15	—	—	28
Philosophy	5	9	12	4	—	17	13	—	4	1	—	5	1	5	6	—	10	—	—	1	3	—	10
Economics	4	7	14	11	—	18	18	—	3	1	—	2	3	4	7	—	5	3	—	4	5	—	8
Anthropology	3	2	12	3	—	15	5	—	1	—	2	—	—	1	2	1	5	—	—	1	4	—	6
Khasi	—	—	14	24	—	—	—	—	—	—	—	—	—	—	—	—	2	10	—	5	18	—	12
M.A. (Edn.)	RESULT YET TO BE ANNOUNCED FOR WANT OF DISSERTATION.																						
Total of	30	25	148	85	—	178	111	6	16	4	6	9	6	26	21	6	107	8	7	58	9	121	7
Shillong Campus																							

RESULT ANALYSIS OF P. O. DEPTS. END SEMESTER: 1983

Department	Appeared						General						Sch. Tribe					
	Genl. S.	T. S.	S. M	F. M	C. F	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I			
M. Com. (Dec.)	1	1	6	1	-	7	2	1	1	1	1	1	1	1	5			
M. Com. (June-July)	6	6	1	-	12	1	4	2	6	1	2	2	5	-	5			
Total:	7	1	12	2	-	19	3	5	7	1	1	1	7	2	10			
English	1	3	2	-	4	2	-	-	-	-	-	-	2	2	2			
Edt. (MA)	RESULT YET TO BE ANNOUNCED																	
Total	8	1	15	4	-	23	5	5	2	1	1	1	7	4	12			
Washima Campus	RESULT YET TO BE ANNOUNCED																	
Economics	RESULT YET TO BE ANNOUNCED																	
English	1	4	2	-	5	-	1	-	1	1	1	1	1	-	3			
Edt.	RESULT YET TO BE ANNOUNCED																	
Total Aizawl Campus	1	4	2	-	5	-	1	-	1	1	1	1	4	-	3			



## AWARD OF THE DEGREE OF MASTER OF PHILOSOPHY (M. PHIL) : 1983

DEPARTMENT	GENERAL				SCHEDULED TRIBE						TOTAL			
	MALE		FEMALE		MALE		FEMALE		MALE		FEMALE		GRADE	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
English	1	-	-	1	-	-	-	2	-	1	-	-	2	1
Education	-	1	-	-	-	-	-	-	1	-	1	-	-	1
HISTORY	1	-	1	-	2	2	-	-	1	3	2	-	1	1
Sociology	-	-	1	-	-	-	-	-	-	-	-	1	-	1
Philosophy	-	-	1	1	-	-	1	-	-	1	-	-	1	1
Economics	-	-	-	3	-	-	-	-	-	-	-	-	-	3
Pol. Science	-	-	1	-	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>7</b>

## AWARD OF THE DEGREE OF DOCTOR OF PHILOSOPHY (PH. D.) : 1983

DEPARTMENTS	GENERAL		SCHEDULED TRIBE		TOTAL	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
Prof. Science	1				1	
English	1		1	1	2	1
Geography	1				11	
Philosophy		1				1
Chemistry	3				3	
Botany	44	4	1	1	5	5
Zoology	5	1	1		6	1
Physics	1			1	1	1
Total	16	6	3	3	19	9

RESULT ANALYSIS OF B. ED. EXAMINATION HELD IN DECEMBER: 1982

Genl.	APPEARED		Total	WRITTEN		PASSED																										
	ST	SC		Male	Female	INTERNAL						SESSIONAL & PRACTICAL						PRACTICE TEACHING														
	M	F		M	F	I	II	P	M	F	D	A	B	C	D	A	B	C	Male	Female	Total											
ST. MARY'S COLLEGE:																																
2	28	1	9	—	—	3	37	GEN	2	—	15	10	2	25	1	—	12	4	9	—	—	1	1	—	12	13	—	2	25			
								S.C.	—	—	Nil	—	—	Nil	—	—	Nil	—	—	Nil	—	—	Nil	—	—	Nil	—	—	Nil			
								S.T.	1	—	6	2	1	8	—	1	3	3	2	—	1	8	—	1	—	—	—	—	3	5	4	8
								Total	3	—	21	12	3	33	1	2	—	15	7	11	—	3	33	2	—	—	—	—	151	8	3	

MIZORAM INST OF EDU.

5	4	1	10	10	—	—	15	14	GEN	1	2	—	1	3	2	3	—	—	1	1	—	3	2	1	2	—	—	1	1	—	3	2				
								S.T.	—	13	49	1	2	5	62	8	11	40	1	10	1	4	2	1	62	8	2	5	45	10	4	3	1	62	8	
								S.C.	—	—	Nil	—	—	Nil	—	—	Nil	—	—	Nil	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
								Total	14	51	1	3	6	65	10	14	40	1	10	2	5	2	1	65	10	3	7	45	10	5	4	1	65	10		

## NAGALAND COLLEGE OF

## EDUCATION

17	6	25	11	--	--	42	17	GEN.	--	4	9	--	3	3	13	6	10	1	2	--	1	--	5	--	13	6	--	4	9	--	51	13	6
								SC.					--	Nil	--										--	Nil	--						
								ST.	9	--	--	6	9	6	7	2	--	4	2	--	9	6	1	3	5	--	1	5	9	6			
<hr/>																																	
Total																																	
--	4	18	--	3	9	22	12	17	3	2	--	5	2	5	--	22	12	1	7	14	--	6	6	22	12								

## JOWAI GOVT. COLLEGE

18	2	6	12	--	--	24	14	GEN.	--	2	2	--	1	4	1	--	1	1	--	--	1	4	4	1	--	1	2	--	1	1	4	1	
								SC.					--	Nil	--																		
								ST.	3	--	--	3	3	1	2	--	1	1	--	1	3	3	--	3	--	1	2	--	3	3			
<hr/>																																	
Total																																	
--	2	5	--	--	5	7	4	1	1	1	1	1	2	7	4	--	1	2	7	4	--	1	4	2	--	1	3	--	7	4			

RESULT ANALYSIS OF B. ED. EXAMINATION HELD IN DEC. 1982 (NEW COURSE)

APPEARED Genl. S. T. S. C. Total Cate- M F M F M F M F gory	PASSED												PRACTICE TEACHING								
	WRITTEN						SESSIONAL & PRACTICAL INTERNAL						(IN GRADE)								
	Male	Female	Total	Male	Female	Total	Total	Male	Female	Total	Male	Female	Total	A	B	C	D	M	F		
TURA GOVT. COLLEGE:																					
TURA																					
15	5	3	13	--	17	18	GEN	--	1	--	1	1	1	--	1	1	--	1	1		
							S.C.	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil		
							S.T.	--	1	5	--	6	--	2	4	--	6	--	3	3	
<hr/>																					
Total	--	1	--	1	6	--	1	7	1	--	2	--	5	--	1	7	--	1	--	3	4

P.G.T. COLLEGE:																																			
SHILLONG																																			
149	84	11	12	--	160	96	GEN.	--	30	52	--	25	31	82	57	15	58	6	3	24	23	40	--	825	7	--	10	67	5	--	19	33	5	82	57
							S.C.	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil	--	Nil
							S.T.	2	4	--	2	4	6	6	2	--	4	1	1	6	6	6	6	--	6	--	6	--	5	6	--	5	6	--	
<hr/>																																			
Total	--	32	56	--	28	35	88	63	19	60	6	3	28	24	11	--	88	63	--	10	73	5	--	25	33	5	--	88	63	--					

GRAND TOTAL																																	
205	129	156	67	--	361	196	--	55	131	1	56	72	186	129	53	107	12	14	53	39	3	186	129	4	27	138	17	--	55	68	6	186	12

RESULT ANALYSIS OF B.ED.(OLD COURSE) : 1982

Name of the College of Education	APPEARED						PASSED			
	Genl. S. T. Total			General Female			Total			
	M	F	Total	P	P	Total	M	F	Total	
Antonrang Inst	1	5	6	1		1		1		3
Nagaland Inst of Education			1							1
P. G. T. College	8	1	9	4	1	4	1			4
<b>Grand Total</b>	<b>9</b>	<b>6</b>	<b>15</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>8</b>

N.A. CLASS I: Nil  
CLASS II: Nil

SCHEDULED CASTE/CANDIDATE : NIL.



## ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION RESULTS : 1982

Name of the College	General		S. Tribe		S. Caste		O. B. C.		Total	
	M	F	M	F	M	F	M	F	M	F
St. Edmund's	19		85						104	
St. Anthony's	130		135						265	
Synod College	10	2	125	215			2	3	137	129
St. Mary's College		71		76						147
Uniou Christian	2	3	27	19			5	2	34	24
Sankardev College	57	12	46	10	7	1			110	23
Jowai Govt.			46	53					46	53
Nonagtoin			7	2					7	2
Lady Keas Girls'		152		206						338
Shillong	4	9	38	28					82	37
Seng Khasi	1		24	16					25	16
Tura Govt.	84	46	170	85					254	131
Mendipathar	12		44	10					56	10
<b>Total of Meghalaya Colleges</b>	<b>359</b>	<b>275</b>	<b>747</b>	<b>629</b>	<b>7</b>	<b>1</b>	<b>7</b>	<b>5</b>	<b>1120</b>	<b>910</b>



ANALYSIS OF PRE UNIVERSITY EXAMINATION RESULTS: 1982  
(ARTS)

Name of the College	REGULAR						APPEARED					
	GENERAL			S. TRIBE			S. CASTE			TOTAL		
	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL
Pachhunga Univ. College	1		86			62			87			62
Saiha			5						5			5
Champhai			50			20			50			20
Kolasib			32			7	1		33			7
Serchap	1	4	38			8			39			12
Frangbana			78			48			71			48
Aizawl	1		622			270			623			270
Lunglei Govt.	1		122			22			123			22
Ziriri Women's		2				22						24
Lawtlai			19			2			19			2
<b>Total of Mizoram Colleges</b>	<b>5</b>	<b>6</b>	<b>1044</b>			<b>453</b>	<b>1</b>		<b>1050</b>			<b>459</b>

## ANALYSIS OF PRE UNIVERSITY (ARTS) EXAMINATION RESULTS : 1982

Name of the College	NUMER OF PASSED															
	GENERAL						S. TRIBE						S. CASTE			
	Male		Female		Total	Male		Female		Total	Male		Female		Total	
I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	M	F
Pachhunga Univ	1			1			7	54	7	15	61	22				
Seibha								5				5				
Champhi							3	10	1	5	13	6				
Kolasib							1	10	4	11	4					
Serchhip	1	2	1	1	3		9	13			22					
Hranghaha	1			1			2	26	2	11	28	13				
Aizawl	1			1			9	75	2	21	84	23				
Lunglei Govt.							3	21	1	4	24	5				
Zirtdi Womens'				2						1	8	9				
Lawngtlai									1	1	1	1				
Total of Mizoram	1	3	2	3	4	5	34	215	15	68	249	83				

ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINATION RESULTS : 1982

Name of the College

REGULAR APPEARED

Name of the College	General		S.		T.		REGULAR APPEARED				Total	
	M	F	M	F	M	F	S.		C.			
							M	F	M	F		
Fazi Ali College	6	2	68	40							74	42
Kohima College	17	17	155	66							172	83
Patkai Christian			48	39							48	39
Mount Tiyi			20	6							20	6
Zunhebeto			39	8							39	8
Tuensang	7	2	18	2							26	4
Dimapur	23	36	78	33							101	69
<b>Total of Nagaland</b>	<b>53</b>	<b>57</b>	<b>426</b>	<b>194</b>							<b>479</b>	<b>251</b>
<b>Total of 3 States</b>	<b>417</b>	<b>338</b>	<b>2217</b>	<b>1270</b>			<b>7(OBC)</b>	<b>5</b>			<b>2640</b>	<b>1620</b>
							<b>8(SC)</b>	<b>1</b>				

ANALYSIS OF PRE-UNIVERSITY (ARTS) EXAMINYTIGN RESULTS : 1982

Name of the College	NUMBER GENERAL						OF PASSED						S. T.								
	Male			Female			Male			Female			Total								
	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	M	F				
Fazl Ali	1	1	1	1	1	1	3	24	6	18	27	24									
Kohima	4	1	4	7	4	12	1	36	8	20	37	28									
Patkai College							6	28	9	20	34	29									
Mount Tiya							3	10	4	2	13	6									
Zumboboto							1	17	2	18	4										
Tuensang												5									
Dimapur	3	6	2	7	6	9	15	13	2	1	11	14	14								
<b>Total of Nagaland</b>	<b>3</b>	<b>12</b>	<b>3</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>28</b>	<b>15</b>	<b>133</b>	<b>2</b>	<b>30</b>	<b>73</b>	<b>148</b>	<b>105</b>							
<b>Total of 3 States</b>	<b>15</b>	<b>1504</b>	<b>183</b>	<b>27</b>	<b>20</b>	<b>79</b>	<b>199</b>	<b>186</b>	<b>6</b>	<b>187</b>	<b>540</b>	<b>4</b>	<b>150</b>	<b>548</b>	<b>652</b>	<b>503</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2(OBC)</b>





## ANALYSIS OF PRE UNIVERSITY (ARTS) EXAMINATION RESULTS:

Name of the College	CERTAIN SUBJECT APPEARED										CERTAIN SUBJECT PASED									
	General					S. Tribe					S. Caste					Total				
	M	F	M	F	Total	M	F	M	F	Total	M	F	M	F	Total	M	F	M	F	Total
Fazi Ali	11	2	118	64	—	—	—	129	66	4	2	33	19	—	—	—	—	37	21	—
Kohima	3	4	134	46	—	—	—	137	50	1	1	50	22	—	—	—	—	51	23	—
Patkai Ch	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mount Tiyi	—	—	27	6	—	—	—	27	6	—	—	19	5	—	—	—	—	19	5	—
Zunheboto	—	—	9	1	—	—	—	9	1	—	—	6	1	—	—	—	—	6	1	—
Tuensang	6	—	17	5	—	—	—	23	5	—	—	3	—	—	—	—	—	—	—	—
Dimapur	4	15	57	18	—	—	—	61	33	3	8	33	12	—	—	—	—	36	20	—
Total of Nagaland	24	21	362	140	—	—	—	386	161	8	11	144	59	—	—	—	—	152	70	—
Total of Three States	88	95	940	490	(OBC) 4	1031	589	29	38	370	171	—	(OBC) 4	399	213					



## ANALYSIS OF PRE-UNIVERSITY (SCIENCE) EXAMINATION RESULTS: 1982

Name of the College	NUMBER OF PASSED												Total								
	General						S. Tribe							S. Caste							
	I	II	III	I	II	III	M	F	I	II	III	M		F	I	II	III	M	F		
St. Edmunds	44	35	7	x	x	x	86	x	7	20	6	x	x	x	x	x	x	x	x	x	x
St. Anthony's	9	26	15	x	x	x	50	x	6	18	19	x	x	x	x	x	x	x	x	x	x
St. Mary's	—	—	—	29	10	1	—	40	—	—	—	4	9	1	—	—	—	—	—	—	—
Sankardev	1	7	8	—	—	—	16	—	—	7	7	—	—	—	—	—	—	—	—	—	—
Jowai Gbvt.	—	—	—	—	—	—	—	—	—	5	4	—	8	2	—	—	—	—	—	—	—
Lady Keane Girls	—	—	—	8	6	5	—	19	—	—	—	1	10	5	—	—	—	—	—	—	—
Shillong	1	12	5	—	1	1	18	2	—	11	2	—	5	—	—	—	—	—	—	—	—
Tura Gbvt.	5	4	—	—	—	1	9	1	—	3	1	—	1	—	—	—	—	—	—	—	—
Total of Meghalaya	55	85	39	37	17	8	178	62	13	64	38	5	33	8	115	46	—	—	—	—	—
Pachhunga Univ.	—	—	—	—	—	—	—	—	—	10	22	—	5	5	32	10	—	—	—	—	—
Lunglei	1	—	—	—	—	—	—	—	—	1	—	—	1	—	1	—	—	—	—	—	—
Total of Mizoram	1	—	—	—	—	—	—	—	—	11	22	—	6	5	33	10	—	—	—	—	—
Science (Kohima)	3	4	3	3	—	10	6	1	17	23	—	14	2	41	16	—	—	—	—	—	—
Total of Nagaland	3	3	4	3	3	—	10	6	1	17	23	—	14	2	41	16	—	—	—	—	—
Total of three States	59	88	43	40	20	8	190	68	14	92	83	5	53	15	189	73	—	—	—	—	—





## ANALYSIS OF PRE-UNIVERSITY (COMMERCE) EXAMINATION: RESULTS: 1982.

Name of the College	General						S. Tribe						S. Caste															
	Male			Female			Total			Male			Female			Total			Male			Female			Total			
	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	
St Anthony's	3	16	11				6	10	16																			
Shillong	14	30		1			18	21	1	3	50	5																
Total of Meghalaya	30	41	4	1			24	31	1	3	56	5																
Dimapur		5	42	43				2	3		1	5	1															
Total of Nagaland	5	12	13				2	3		1	5	1																
Total of 2 States	8	42	54	1			104	1	1	26	34	1	1	4	61	3												

## ANALYSIS OF PRE-UNIVERSITY (COMMERCE) EXAMINATION: RESULTS: 1982.

Name of the College	General						Certain Subjects Appeared						Certain Subjects Passed											
	S. Tribe			S. Caste			Total			General			S. Tribe			S. Caste			Total					
	M	F	M	F	M	F	M	F	M	M	F	M	M	F	M	M	F	M	M	F	M			
St. Anthony's	33		27				60	10	5													15		
Shillong	13	1	9	2			22	3	7	1	4											11	1	
Total of Meghalaya	46	1	36	2			82	3	17	1	9											26	1	
Dimapur	29		53				82	12	20		20											32		
Total of Nagaland	29		53				82	12	20		20											32		
Total of 2 States	75	1	89	2			164	3	29	1	29											38		



## ANALYSIS OF DEGREE EXAMINATION (B. SC.) RESULTS : 1982

Name of the College	Examination (B.Sc)	NUMBER OF PASSED												S. CASTE							
		GENERAL						S. TRIBE						Total		Male		Female			
		Male		Female		Total		Male		Female		Total		Male		Female					
		I	II	SP	I	II	SP	I	II	SP	I	II	SP	I	II	SP	I	II	SP	M	F
St. Edmund's	Pass Course	4				4						1									1
	Honours	15	21			36				1	2	2									3
St. Anthony's	Pass Course			08		8				8											08
	Honours	11	15			26				2	9	2									13
St. Mary's	Pass Course	1	1	(dnt)	1	1				2					2						2
L'dy Keane Girls'	Pass Course			5		5									2						2
	Honours			4	11	15				4	7				7						11
Shillong College	Pass Course	1				1									1						1
	Honours	2	1			3															
Tura Govt College	Pass Course	2				2				1					1						1
	Pass Course	15	1(d)	6	15	7				10					4						10
Total of Meghalaya	Pass Course	28	37	4	11	15				15	3	11	2	4	7						16
	Honours																				11
Pachhunga Univ. (Mizoram)	Pass Course	1				1				1					8						8
	Pass Course	3				3				8					1						8
Science College (Kohima)	Pass Course	2	1			3				1	3				1						4
	Honours																				
Total of 3 States	Pass Course	19	1(D)	6	19	7				26	50	25			26						5
	Honours	30	38	1	11	68				15	4	14	2	4	3	23					20

## ANALYSIS OF DEGREE EXAMINATION (B. Sc.): RESULTS: 1982

Name of the College	Certain Subjects Appeared						Certain Subjects Passed									
	Genl		S. Tribe		S. Caste		Total		Genl.		S. Tribe		S. Caste		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
St. Edmunds'	8		3		11		4		2							6
St. Anthony's	18		28		26		2									2
St. Mary's					—Nil—											
Lady Keane Girls'					—Nil—											
Shillong			2	2	2	2	2	2	2	2	2	2	2	2	2	2
Tura Govt,			4		4											
Total of Meghalaya	30		13	2	43		43	2	6	4	2	4	2	10	2	
Pachhunga Univ (Mizoram)			5	1	5	1	5	1		4	1	4	1	4	1	
Science (Kohima) Nagaland	1		18		19		19					3				3
Total of 3 States	31		36	3	67	3	67	3	6	11	3	11	3	17	3	

## ANALYSIS OF B. SC. (HONS. SC.) EXAMINATIONS RESULTS : 1982

## REGULAR APPEARED

Name of the College

Genl.	S. Tribe		Total	S. Caste	Total	
	M	F			M	F
6			6			12

St. Mary's College

Name of the College

Male	General		S. Tribe		S. Caste		Total
	I	II	I	II	I	II	
4	2		2	1			

St. Mary's College

(D)

## D-Distinction

Name of the College

Genl.	S. Tribe		S. Caste	Tot. I	General	Certain Subjects Passed		Total
	M	F				M	F	
1			1	1				1

St. Mary's College

(D)



**ANALYSIS OF DEGREE EXAMINATION (B. COM.) : RESULTS : 1982**

Name of the College	Examination	NUMBER OF PASSED															
		B. Com.			General			S. Tribe			S. Casts						
		Male	Female	Total	I	II	SP	I	II	SP	M	F	Total	Male	Female	Total	
St. Anthony's	Pass Course		13	13	4												
Shillong	Honours	2	6	10													
	Pass Course		20	20			4										
Total of Meghalaya	Pass Course	33	33	33	16	4	16	4	16	4	4	16	4	16	4	16	4
	Honours	4	9	12	5	2											
	Pass Course	13	13	13	2	2											
Total of Nagaland	Pass Course	13	13	13	2	2											
Total of 2 States	Pass Course	46	46	46	18	18	18	4	18	4	18	4	18	4	18	4	18
	Honours	4	9	12	2	2											

(One male Genl. secured Distinction).

(One male Genl. secured Distinction).



## ANALYSIS OF DEGREE EXAMINATION (B. A.) RESULTS : 1982

Name of the College	Examination	REGULAR APPEARED									
		B. A.		General		S Tribe		S. Caste		Total	
		M	F	M	F	M	F	M	F	M	F
Fazl Ali College	(P.C.)	1	2	37	28					38	30
	(Hons)		2	1	2					1	4
Kohima College	(P.C.)	4	1	76	18					80	19
	(Hons)	1	1	6	2					7	3
Patkai Christian	(P.C.)			25	11					25	11
Mount Tiyi	(P.C.)			10	2					10	2
Tuensang	(P.C.)	3	2	4						7	2
Dimapur	(P.C.)	9	15	55	14					64	29
Total of Nagaland	(P.C.)	17	20	207	73					224	93
	(Hons)	1	3	7	4					8	7



## ANALYSIS OF DEGREE EXAMINATION (B. A.) RESULTS : 1982.

Name of the College	Examination (B. A.)	General		Regular Appeared		S. Caste		Total	
		M	F	S	T	M	F	M	F
Pachhunga University	Pass Course	1		57	34			58	34
	Honours			37	14			37	14
Saitai College	Pass Course			3	1			3	1
	Pass Course			15	6			15	6
Champhai College	Honours			8	2			8	2
	Pass Course			12	4			12	4
Kolapib	Pass Course		1	13				13	1
	Pass Course	1		383	87			384	87
Serchhip Aizawl	Honours	2		40	16			42	16
	Pass Course			21	3			21	3
Lunglei College	Honours			5	2			5	2
	Pass Course	2	1	504	135			506	136
Total of Mizoram Colleges	Honours	2		90	34			92	34
		4	1	594	169			598	170

## ANALYSIS OF DEGREE EXAMINATION ( B. A. ) RESULTS 1982.

Name of the College	Name of the Exam. ( B. A. )	NUMBER OF PASSED													
		General						S. Tribe			S. Caste				
		Male		Female		M	F	M	F	Male	Female	M	F		
I	II	SP	I	II	SP	I	II	SP	I	II	SP	I	II	III	
Pachhunga University	Pass Crs.	1			1			22	4	22	4				
	Honours							12	9	4	5	21	9		
Saiha	Pass Crs.					3		1	3	1					
Champhai	Pass Crs.					1						1			
Champhai	Pass Crs.					4		1		5					
Kolasaib	Pass Crs.					3		1		3	1				
Serchhip	Pass Course					8				8					
Aizawl	Pass Crs.					54		15	54	15					
	Honours	2			2	5	14	8	6	19	14				
Lunglei	Pass Crs.					2		2		2	2				
	Honours					2		2		1	4	1			
<b>Total of</b>															
Mizoram	Pass Crs.	1			1	93		23	93	23	93	2			
Colleges	Honours	2			2	23	26	12	12	49	23				
		3			3	23	119	12	35	142	47				

## ANALYSIS OF DEGREE EXAMINATION (B. A.) RESULTS : 1982.

Name of the College	Examination	General		S. Tribe		Regular S. Caste		Appeared Total	
		M	F	M	F	M	F	M	F
St. Edmund's	Pass Course	12		59				71	
	Honours	18		48				66	
St. Anthony's	Pass Course	50		64				114	
	Honours	20		46				66	
Synod College	Pass Course	3		61	62	2	(OBC)	19	62
	Honours	1		1	9			12	9
St. Mary's	Pass Course		14		32			46	
	Honours		20		25			45	
Union Christian	Pass Course	3	2	14	7	2	(OBC)	19	9
	Honours			9	1			9	1
Sankardev	Pass Course	28	3	16	3	2	2	46	8
	Honours	4	1	6				10	1
Jowai Govt.	Pass Course			19	22			19	22
	Honours			1				1	
Lady Keane Girls'	Pass Course		53		69			122	
	Honours		20		47			47	
Shillong	Pass Course	31	5	19	25			50	30
	Honours	2		5	1			7	1
Seng Khasi	Pass Course			23	28			23	28



## ANALYSIS OF DEGREE EXAMINATION (B.A.) RESULTS : 1982

Name of the College	Examination (B.A.)	General		S. Tribe		Regular Appeared		S. Caste		Total	
		M	F	M	F	M	F	M	F	M	F
Tura Govt. College	Pass Course	23	14	37	42					60	56
	Honours	5	4		1					5	5
	Pass Course	9	2	10	15					19	7
Meesdipathar											
Total of Meghalaya Colleges	Pass Course	159	93	322	295	4 (OBC)				47	390
	Honours	50	55	126	54	2 (OBC)				2	129
		209	148	448	349	4 (OBC)				663	499
Total of 3 States	Pass Course	178	114	1033	503	2 (OBC)				1217	619
	Honours	53	58	223	92	4 (OBC)				276	150
		231	172	172	1256	4 (OBC)				1493	69
										2 (SC)	2

## ANALYSIS OF DEGREE EXAMINATION (RESULTS : 1982

Name of the College	Examination (B. A.)						Regular Appeared						S. Caste				
	General			S. Tribe			Male			Female			Total				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total		
	I	II	SP	I	II	SP	I	II	SP	I	II	SP	I	II	SP	M	F
Tura Govt. Pass Course	11			6	11	6	2			7	2	7					
College Honours	2	1		1	2	3											
Mendipathar Pass Course	2			1	2	1											
Total of Meghalaya Colleges Pass Course	45	74	45	74	74	93	93	131	93	131	93	131	OBC	3			3 (C
Honours	1	18	10	1	27	6	29	34	1	73	21	1	30	4	95	35	
	1	18	55	1	27	80	74	108	1	73	114	1	30	135	188	166	
													OBC	3			3 (C
													SC	1			1 (C
Total of 3 Pass Courses	54	84	54	85	85	248	248	182	248	182	182	182	OBC	3			3 (ODC
States Honours	1	18	13	1	29	7	32	37	1	99	49	1	43	16	149	60	
	1	10	57	1	29	91	86	121	1	99	297	1	43	198	398	242	
													OBC	3			3 (OBC
													SC	1			1 (SC

## ANALYSIS OF DEGREE EXAMINATION (B. A.) RESULTS. 1982

Name of the College	CERTAIN SUBJECTS APPEARED										CERTAIN SUBJECTS PASSED									
	General		S. Tribe		S. Caste		Total		General		S. Tribe		S. Caste		Total					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Fazi Ali	10	2	93	18	-	-	103	20	2	-	-	10	7	-	-	12	7			
Kohima	6	-	57	21	-	-	63	21	-	-	-	25	4	-	-	25	4			
Patkal																				
Christian																				
Mount Tiyi	-	-	8	-	-	-	8	-	-	-	3	-	-	-	-	3	-			
Tuensang	-	-	10	1	-	-	10	1	-	-	-	-	-	-	-	-	-			
Dimapur	3	7	21	8	-	-	24	15	1	-	11	3	-	-	12	3				
Total of Nagaland	19	9	189	43	-	-	208	57	3	-	49	14	-	-	52	14				

## ANALYSIS OF DEGREE EXAMINATION (T. A.) RESULT. 1982

Name of the College	CERTAIN SUBJECTS APPEARED						CERTAIN SUBJECTS PASSED										
	General		S. Tribe		S. Caste		Total		General		S. Tribe		S. Caste		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Pachhunga University	1	-	13	3	-	-	-	-	16	3	1	-	4	-	-	5	-
Saikh College	-	-	7	2	-	-	-	7	2	-	-	2	2	-	-	2	2
Champhai Kolasib	-	-	4	-	-	-	-	4	-	-	-	3	-	-	-	3	-
Serchhip Aizawl	1	-	56	11	-	-	-	57	11	-	-	24	5	-	-	24	5
Lunglei Govt.	-	-	20	1	-	-	-	20	1	-	-	7	-	-	-	7	-
Total of Mizoram Colleges	2	-	102	17	-	-	104	17	1	40	-	-	-	-	41	7	-

## ANALYSIS OF DEGREE EXAMINATION (B. A.) RESULTS, 1982

## CERTAIN SUBJECTS APPEARED CERTAIN SUBJECTS PASSED

Name of the College	General						S. Tribe						S. Caste						Total					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
St. Edmunds'	2	X	7	2	X	9	X	X	1	X	4	X	X	X	X	X	5	X	5	X				
St. Anthony's	13	X	37	X	—	55	—	—	2	—	4	X	—	—	—	—	6	X	6	X				
Syaod	6	X	65	59	—	74	59	—	2	—	9	7	—	—	—	—	11	7	11	7				
St. Mary's	—	1	—	3	—	—	—	—	—	—	—	2	—	—	—	—	—	2	—	2				
Union Christian	—	—	4	3	—	—	—	—	—	—	4	2	—	—	—	—	4	2	4	2				
Sankardev	12	6	3	1	—	—	15	7	5	1	1	—	—	—	—	—	6	1	6	1				
Jowai Govt.	—	—	4	6	—	—	4	6	—	—	3	—	—	—	—	—	3	—	3	—				
Lady Keane Girls	—	26	—	—	—	—	—	—	—	22	—	12	—	—	—	—	—	34	—	34				
Shillong	3	2	1	2	—	—	4	4	1	1	1	1	—	—	—	—	2	2	2	2				
Seag Khaal	—	—	7	1	—	—	7	1	—	—	—	—	—	—	—	—	3	—	3	—				
Tura Govt.	4	3	9	4	—	—	13	7	—	3	5	2	—	—	—	—	5	5	5	5				
Mendipathar	—	—	—	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—				
Total of Meghalaya	45	41	137	101	—	—	182	142	11	27	34	26	—	—	—	—	45	53	45	53				
Total of Three State	19	9	189	48	—	—	208	57	3	49	49	14	—	—	—	—	52	14	52	14				





ANALYSIS OF EXAMINATION RESULTS: 1982

Name of the College	APPEARED				NUMBER OF PASSED									
	General		S. Caste		Total		S. Tribe		S. Caste		Total			
	M	F	M	F	M	F	I	II	Total	I	II	Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Kohima Law	6				6				3					
Shillong Law	27	4	12	3	39	7	14	1	14	3	3			
Tura Law			1		1							1		
Grand Total	33	4	13	3	46	7	17	17	17	4	4			

ANALYSIS OF EXAMINATION RESULTS: 1982

RESULT ANALYSIS OF B. ED. EXAMINATION ( OLD COURSE ) HELD IN DEC. 81

College	Appeared						Passed								
	S. T. S. C			OBC Total			General			Scheduled Tribe					
	M	F	Total	M	F	Total	M	F	Total	I	II	Total			
St. Mary's S															
Mizoram															
Inst. of Edn. 1															
Nagaland															
College Education															
P. G. Trainings A															
10 8 5 5															
Grand Total															

Remarks : Column. I Scheduled Caste & O. B. C. - Nil.

RESULTS ANALYSIS OF B. ED. EXAMINATION HELD IN DECEMBER 81 (NEW COURSE)

College	Appetred				Passed				Practice Teaching																			
	S.T.		Total Cate-		Written		Sessional &		Practical Internall		(in grade)																	
	M	F	M	F	M	F	M	F	M	F	Total	Male	Female	Total														
	I	II	P	I	II	P	I	II	P	I	II	P	M	F	O	A	T	R	C	O	A	I	B	C	M	F		
St Mary's	5	40	2	18	7	58	Genl.	1	4	2	33	3	5	30	2	3	18	5	15	5	38	1	2	2	16	22	5	38
	S. T.	1	1	40	6	1	11	1	5	9	3	1	17	1	5	10	2	1	17									
	Total	1	5	3	43	9	6	55	2	3	1	23	14	18	6	55	1	2	3	12	32	2	6	55				
Jawal	Genl.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Govt	8	7	S. T.	1	1	4	1	2	5	2	2	5	2	2	5	2	2	5	2	2	5	2	1	4	2	5		
	Total	1	3	4	1	4	5	4	4	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5		
Mizoram	10	5	68	12	78	17	Genl.	3	2	4	5	4	2	2	1	12	5	4	23	2	2	5	4					
Inst. of Education.	S. T.	12	32	4	7	34	11	5	20	9	45	1134	1	230	2	3	6	2	34	11								
	Total	15	24	8	7	39	15	5	22	10	57	2139	15	433	2	5	8	2	39	15								

College Remarks S. C. Appeared  
 St. Mary's O. B. C. - nil -  
 Jawal Govt.  
 Mizoram Institute of Edn.



RESULT ANALYSIS OF P.G DEPARTMENT END SEMESTER : (M.A.) 1932

Deptt.	A. Appeared												Passed																		
	Genl S						T. S. C. O. B. TOTAL						GENERAL						S. TRRDB						S. CASTE						
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Pol. Sc.	3	6	10	11	—	—	—	—	—	—	13	17	—	12	—	6	—	3	6	—	9	1	—	10	11	—	—	—	—	—	—
English	5	11	13	11	—	—	—	—	—	—	19	22	—	42	—	6	1	6	7	—	1	5	1	6	—	—	—	—	—	—	
Economics	3	5	17	6	—	—	—	—	—	—	20	11	1	2	—	1	3	1	3	5	2	7	2	—	—	—	—	—	—	—	
History	3	4	23	7	—	—	—	—	—	—	26	11	—	5	—	2	1	5	3	—	18	—	1	7	—	—	—	—	—	—	
Sociology	2	4	10	3	—	—	—	—	—	—	12	7	1	—	—	1	3	—	1	4	—	5	1	—	—	—	—	—	—	—	
Philosophy	3	3	7	2	—	—	—	—	—	—	10	5	3	—	—	—	3	3	3	1	5	—	2	—	—	—	—	—	—	—	
Geography	8	2	13	—	—	—	—	—	—	—	21	3	3	4	—	2	—	7	2	—	8	1	—	—	—	—	—	—	—	—	
Anthropology	—	—	—	—	—	—	—	—	—	—	—	—	not yet declared	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total of Shillong	28	35	93	40	—	—	121	75	8	16	4	20	6	28	30	3	53	10	2	29	2	66	93	—	—	—	—	—	—	—	

O. B. C.

Deptt.	Male				Female				Total
	I	II	P.	P.	I	II	P.	P.	
Pol. Sc.	—	—	—	—	—	—	—	—	—
English	—	—	—	—	—	—	—	—	—
Economics	—	—	—	—	—	—	—	—	—
History	—	—	—	—	—	—	—	—	—
Sociology	—	—	—	—	—	—	—	—	—
Philosophy	—	—	—	—	—	—	—	—	—
Geography	—	—	—	—	—	—	—	—	—
Anthropology	—	—	—	—	—	—	—	—	—

ALL—NIL—

- Pol. Sc.
- English
- Economics.
- History
- Sociology
- Philosophy
- Geography
- Anthropology

RESULTS ANALYSIS OF P. G. DEPTTS. END SEMESTER (M.A.): 1982

Deptt	Passed															
	Appeared					S. Tribe					S. Caste					
	General		Total		Total		Total		Total		Total		Total		Total	
	S	T	S	C	OBC	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
English	1		2			2	1	1	1		1		1			
Botany	3	2	5			5										
Mathematics	1	2	3			3										
Chemistry	1	5	6			6	1	5	1	5	1	5	1	5	1	5
Physics	1	5	6			6	1	5	1	5	1	5	1	5	1	5
Economics	3	3	6			6	3	3	3	3	3	3	3	3	3	3
Total of Mizoram Campus	19	19	38			38	19	19	19	19	19	19	19	19	19	19
Department	I		II		III		IV		V		VI		VII		VIII	

NOTIFIED (M.A.): 1982

NOTIFIED (M.A.): 1982

NOTIFIED (M.A.): 1982

For all Deptts there is no S/C

**RESULT ANALYSIS OF P. G. DEPARTMENTS END SEMESTER (M.A.) 1982.**

**PASSED**

Dept.	General												S. Tribe		S. Caste	
	Appeared						Total						Male	Female	Male	Female
Genl.	S.	T	S.	C.	OBC	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
2	7	2	6			4	13	1	2	1	2	1	1	1	1	198
Education. (Shillong)																
Education. (Mizoram Campus)																
(1982 Not yet declared)																
(1981 & 1982 Results not yet announced.)																
Total :-	2	7	2	6		4	13	1	2	1	2	1	1	1	1	

Remark/S.C./OBC/ :- NIL

RESULTS ANNOUNCED ON 20.08.1982 BY THE UNIVERSITY

RESULT ANALYSIS OF P. G. DEPTT: END SEMESTER: (M. SC. 1982).

Deptt.	Appeared						General						S. Tribe						S. Caste					
	Genl. S.		T. S. C.		OBC		Total		Female		Male		Total		Female		Male		Total		Female		Male	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Maths.	5	4	2	2	1	1	8	4	3	2	1	2	5	3	1	1	2	2						
Chem	6	2	2	2			8	2	2	2	2	6	2	2										
Physics	8	2					8	2	1	5	1	1	6	2										
Zoology	12	4	2	1			14	5	10	2	4	12	4	1	1									
Botany	6	1	5	4			11	5	3	2	1	5	1	3	3									
G. Total	37	13	11	5	1	1	49	18	21	13	3	34	12	7	5									

Department	O. B. C.		Female		Total
	I	II	P	M	
Maths.	1	1	1	1	
Chem					
Physics					
Zoology					
Botany					
Total	1	1	1	1	

Meths. 1  
 Chem 1  
 Physics 1  
 Zoology 1  
 Botany 1  
 Total 5

ANALYSIS OF DEGREE EXAMINATION (B.A.): RESULTS: 1982

Name of the College	S. Tribe			S. Caste			Total			Certain Subjects Passed					
	M	F	Total	M	F	Total	General		S. Tribe		S. Caste		Total		
							M	F	M	F	M	F	M	F	
Mizoram University	15	3	18	16	3	19	1	3	4	2	2	4	5	5	
Imphal	7	2	9	7	2	9			2	2				2	
Chitlang	4	2	6	4	2	6			3					3	
Shan State	56	11	67	57	11	68			24	5				24	
Imphal Govt.	20	1	21	20	1	21			7	1				7	
Total of Mizoram	102	17	119	104	17	121	1	3	19	7	2	4	7	47	

UNIVERSITY OF MIZORAM  
 DEPARTMENT OF EDUCATION  
 AIZAWL

AWARD OF THE DEGREE OF MASTER OF PHILOSOPHY (M. PHIL.): 1942

Department	General		Scheduled		Tribe		Total	
	Male Grade		Female Grade		A. B.		A. B.	
	A.	B.	A.	B.	A.	B.	A.	B.
Educational	2				2		2	
Research & Studies			3	2	2	3	2	2
Pol. Science	1	1	1	1	2	2	2	1
Philosophy	1		1		2		3	2
Sociology	1			2	1	2	2	1
History	1			2	1	2	2	1
Physics	1				1		1	1
English	1				1		1	1
<b>Grand Total</b>	<b>7</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>10</b>	<b>7</b>	<b>17</b>	<b>3</b>

## ANALYSIS OF DEGREE EXAMINATION (B. A.) RESULTS: 1982

Name of the College	Certain Subjects Appeared						Certain Subjects Passed								
	General			S. Tribe			General			S. Tribe			Total		
	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total
Fazi Ali	10	2	12	18		18	10	7	17	2	2	4	12	7	19
Kohima	6		6	21		21	25	4	29			4	25	4	29
Patkai Christian						—nil—	3	3	6				3	3	6
Mount Tivi						8			8						8
Tuensang	3	7	10	1		1			1						1
Dimapur	3	7	10	8		8	11	3	14				12	3	15
Total of Nagaland	19	9	28	48		48	49	14	63				52	14	66

## A ROLL OF THE DEGREE OF DOCTOR OF PHILOSOPHY (PH. D.): 1982

Department	General		Scheduled		Tribe		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Botany	11	1	1	1	1	1	14	3
Zoology	6	1					6	1
History	1						1	
Philosophy		1						1
Geography					1		1	5
Total	19	3			1		19	5

## DEPARTMENT OF GEOLOGY

5. The Post Graduate Geology Department of the North Eastern Hill University has been established in the Science College Campus, Kohima, Nagaland State. Besides this an Undergraduate Geology Department has also been started simultaneously at the Pachhunga University College, Aizawl Mizoram. Initially seven students were admitted to the Post Graduate Geology Department in late 1983. Besides imparting Geological training in the Post Graduate studies leading to M. Sc., it is intended that the faculty members and research scholars will conduct investigations specially on fossil-fuels-petroleum and coal since there are good prospects for both these minerals in the North Eastern Region and the hill areas of Nagaland, Mizoram and Ca har. With this objective in view intensive study will be made on Stratigraphy, Structural Geology, Sedimentology, Geomorphology and, Igneous and Metamorphic Petrology.

In early 1984 the UGC visiting team strongly recommended the initiation of another Geology Department at Shillong for teaching and studies of the crystalline and sedimentary formations of Meghalaya and adjacent areas.

The P. G. Geology Department of the University at Kohima is being supported liberally by the University Grants Commission. At the moment there are three teachers in the Department a Professor and two Lecturers. The other faculty positions available in the Department who are preparing to appear soon in the second semester examination of the M. Sc. All these six students belong to the North East Region and out of these, four students belong to SC/ST Tribe.

The Department is just in its infancy and equipment and apparatus are being obtained for establishing specialist laboratories. Some valuable equipment has already been received. The greatest constraint in this connection is the paucity of laboratory space. However two young teachers of the Department are actively engaged on the geological studies.

of ophiolites and metamorphites of eastern Nagaland and Sedimentological and Geomorphological studies including neotectonics of Nagaland. A lecturer of the Undergraduate Department of Geology, Science College, Kohima, has also applied for Sedimentological and Stratigraphical studies between Kohima and Chumukedima with the ideas of obtaining the doctorate degree. The present professor of the Department is continuing his Micropalaeontological and Stratigraphical studies and has recently contributed two joint research papers on the geological material from NE region. Joint studies between the three faculty members of the Department are going on structure and neotectonics between Kohima and Dimapur and abstracts of papers are being sent for participation in various seminars.

These studies are directly related with the boosting of mineral potential of NE region, especially the fossil-fuels as to industrialization and prosperity of the area.

6. The department has already established links with well established Department of Geology at Gauhati in NE region. It has been receiving support from the Delhi University, Punjab University, Lucknow University. All India Institutions like Geological Survey of India, ONGC, DGM, Nagaland and Coal India Ltd. are extending their cooperation in various ways.

7. The Department being new, and the laboratories being not established has not yet made any attempt to organize all India seminar conference, but its faculty members are participating in various seminars and conferences organized by other institutions.

8. Does not apply.

9. N - A

For extending its regular invitation has been sent to any one of our Professor A. K. Prasad and Dr. R. Y. Singh of Geology Punjab University, Chandigarh has talked with students during their visit to this place. However, invitation is being extended to national teachers under the scheme for 1984-1985.

# DEPARTMENT OF FINANCE

## INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 1982-1983

### PART I MAINTENANCE (NON PLAN)

#### EXPENDITURE

Head of Account.	Figures in Rupees	Head of Account	Figures in Rupees
1. Administration	17,39,991	1. Grants	
2. Messes, Services and General Charges	30,70,046	University Grants Commission on Revenue Account	1,16,00,000
3. Academic Programmes	38,90,170	2. Fees from students	15,03,110
4. Examination	14,12,629	3. Hostel fees	37,304
5. Library	5,28,541	4. Income from Buildings	2,00,128
6. Students' facilities	1,18,290	5. Publications	5,713
7. Scholarships and Fellowships	3,60,294	6. Other Departmental Receipts	16,870
8. University Hostels	3,46,161	7. Miscellaneous Receipts	2,88,721
9. Publication	25,592	<b>TOTAL</b>	<b>1,36,51,846</b>
10. University Health Services	90,244		
11. College Development Council	85,789		
12. Miscellaneous	8,59,948		
13. Provident Fund and Pension	3,19,257		
14. Kohina Campus	6,13,849		
<b>TOTAL</b>	<b>1,34,60,801</b>		
On Reserve Account	(—)		
On Capital Account	7,98,535		
<b>GRAND TOTAL</b>	<b>1,36,51,856</b>		

PART II DEVELOPMENT (PLAN)

EXPENDITURE

Head of Account	Figures in Rupees	Head of Account	Figures in Rupees
1. Administration	6,28,957	1. Grants	
2. Common Services & General charges	32,260	University Grants Commission On Revenue Account	60,50,000
3. Academic Programmes	15,30,586	2. Fees from students	2,23,821
4. Examinations	54,084	3. Miscellaneous	1,81,556
5. Library	1,44,526	TOTAL	64,55,377
6. Students' facilities	46,853		
7. Scholarships and Fellowships	1,62,242		
8. University Hostels	73,331		
9. Publications	15,983		
10. Health Services	7,085		
11. Miscellaneous	3,971		
12. Chief Engineer's office	3,89,535		
13. Kohima Campus	4,87,485		
14. Agriculture College Ghaspani	13,19,023		
15. Aizawl Campus	10,72,326		
16. Pachhunga University College	21,19,805		
TOTAL	80,88,058		
On Revenue Account	(-)		
On Capital account	25,46,233		
GRAND TOTAL	64,55,377		