



# **SEVENTH ANNUAL REPORT**

## **1980-81**

( July 1, 1980 to June 30, 1981 )

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

*Published by :*

**Mrs. M. R. Mawlong,**  
Registrar,  
North-Eastern Hill University,  
Shillong 793 001  
(Meghalaya).

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## PREFACE

With the ending of the Academic year 1980-81, the North-Eastern Hill University (NEHU) enters its eight year of existence.

Student enrolment in the Academic year 1980-81 went up by 28.1% in comparison with the previous year. (These figures apply to the Shillong Campus only). A total of 392 students were enrolled in the Shillong Campus 70 at Aizawl and 69 in Kohima.

The Third Convocation of the University was held on May 26, 1981. Dr. H. N. Sethna, Chairman, Atomic Energy Commission, and Chancellor of NEHU, delivered the Convocation address. The following degrees were conferred at the convocation : Ph. D (11) M. Phil (7), M. Sc (43), M. A. (85), M. Ed (1), B. A. (250), B. Ed (14), LL. B. (4), Home Sc (4). Gold medals were awarded to 16 students for 1979 and to 15 students for 1980.

The Court of the University held its 6th meeting on the 25th May, 1981. In the year under review the Executive Council met twice, its 23rd meeting on the 10th October, 1980 and its 24th meeting on the 3rd and 4th April, 1981. The Academic Council held its 9th and 10th meetings on the 12th September 1980 and 11th May, 1981.

The University mourns the unfortunate death of Dr. Avtar Singh, Reader in the department of Botany, at Chandigarh on the 18th January, 1981.

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## NEHU ORGANISATIONAL STRUCTURE

### Visitor

Mr. Neelam Sanjiva Reddy  
Chief Rector

President of India  
Governor of N. E. States

### Vice-Chancellor

Dr. A. K. Dhan  
Dr. S. C. Banwar (Actg.)

Upto 11.11.80.  
since 11.11.80.

### Pro Vice-Chancellor

Dr. S. C. Banwar

### Registrar

Mrs. M. R. Mawlong

### Deans

School of Languages

Dr. D. P. Singh

School of Social Sciences

Dr. T. Mathew

School of Life Sciences

Dr. R. R. Mishra

School of Education

Dr. C. L. Anand

School of Physical Sciences

Dr. H. Junjappa

School of Environmental Sciences

Vacant

### Heads of the Departments

Botany

Dr. R. R. Mishra

Chemistry

Dr. T. S. B. Narasaraaju

Economics

Dr. S. N. Guha Thakurta

English

Dr. D. P. Singh

Education

Dr. P. P. Gokulanathan

Geography

Dr. Majid Hussain

History

Dr. J. B. Bhattacharjee

Mathematics

Dr. S. S. Khare

Philosophy

Dr. (Mrs) S. Miri

Physics

Dr. A. L. Verma

(iii)

Political Science	Dr. R. L. Walli
Sociology and Anthropology	Dr. A. P. Sinha
Zoology	Dr. M. K. Khare

**Centres**

Adult and Continuing Education	Mr. C. P. Tewari
Creative Arts	Dr. H. Bareh

**Officers on Special Duty**

NEHU Mizoram Campus	Mr. Darchhawna
NEHU Nagaland Campus	Mr. P. Maososang
Librarian	Mr. J. C. Binwal
Planning Officer	Mr. A. Patton
Director of College Development Council	Mr. Saingenga
Director of Sports	Mr. G. M. War
Medical Officers	Dr. J. Sailo Dr. (Mrs) M. Synrem

**Assistant Registrars**

Administration	Mr. O. D. Shira
Affiliation and Examination	Mrs. S. Rynjah
Academic	Mr. J. W. Smith (incharge)
Finance Officer	Mr. A. Shankar Mr. B. Dam (A. F. O)

**Principals (Constituent colleges)**

College of Agriculture, Medziphema.	Dr. D. N. Upadhyay
Pachhunga Univ. College	Mr. Darchhawna
Dean of Students' Welfare	Dr. I. Hussain.

## MEMBERS OF THE EXECUTIVE COUNCIL

- |  |                   |
|--|-------------------|
| 1. Dr. A. K. Dhan  | — (upto 1980)     |
| 2. Dr. S. C. Banwar  | — (from 1980)     |
| 3. Prof. K. K. Gupta   | — (upto 10.7.80)  |
| 4. Prof. G. S. Aurora  | — ( —do— )        |
| 5. Prof. A. G. George  | — ( —do— )        |
| 6. Prof. P. S. Ramakrishnan  | — ( —do— )        |
| 7. Prof. H. Junjappa   | — (from 6.9.80)   |
| 8. Prof. R. R. Mishra  | — ( —do— )        |
| 9. Prof. D. P. Singh   | — (from 19.8.81)  |
| 10. Prof. C. L. Anand  | — (from 16.3.81)  |
| 11. Prof. T. Mathew  | — (upto 10.8.81)  |
| 12. Prof. R. George Michael  | — (upto 10.7.80)  |
| 13. Dr. Hamlet Bareh   | .. (upto 10.7.80) |
| 14. Rev. Br. M. G. Shannon<br>St. Edmund's College, Shillong.                  | — (upto 10.7.80)  |
| 15. Mr. I. Yanger Ao<br>Fazl Ali College, Mokokchung.                          | — (upto —do—)     |
| 16. Rev. Fr. A. Joseph, <i>Principal</i> ,<br>St. Anthony's College, Shillong. | — (from 6.9.80)   |
| 17. Mr. Kiremwati Ao,<br>Science College, Kohima.                              | — ( —do— )        |
| 18. Mr. Lalawia<br>Lungleh College, Lungleh.                                   | — ( —do— )        |
| 19. Director of Public Instruction,<br>Govt of Meghalaya, Shillong.            | — (1980 - 1981)   |
| 20. Director of Education,<br>Govt. of Nagaland Kohma.                         | — ( —do— )        |
| 21. Director of Education,<br>Govt. of Mizoram, Aizawl.                        | — ( —dc— )        |
| 22. Prof. T. A. A. Latif, Madras.  | — (upto 23.6.80)  |
| 23. Dr. L. M. Singhvi, New Delhi.  | — ( —do— )        |
| 24. Mr. Vicki Kapoor, <i>Advocate</i> ,<br>Supreme Court, Bombay -74.          | — (from 16.1.81)  |

(v)

25. Mr. M. N. Sinha, (*Deputy Secretary*), — (resigned on  
Ministry of Edn. & Culture 28.4.81)  
New Delhi.
26. Mr. M. R. Kolhatkar (*joint Secretary*) — (from 30.5.81)  
Ministry of Edn & Cuture,  
New Delhi.
27. Prof. M. V. Mathur, New Delhi. — (upto 3.6.80)
28. Prof. S. Manzoor Alam, Hyderabad. .. ( —do— )
29. Dr. A. S. Divatia, Calcutta. — ( —do )
30. Mr. K. N. Channa, New Delhi. — (from 3.9.80)
31. Dr. Rais Ahmed, Aligarh. — (from 3.9.80)
32. Mr. T. R. Jayaraman, Bangalore — ( —do— )
33. Prof M. T. Jacob, Bangalore. — ( —do— )

## MEMBERS OF THE COURT

1. Dr Homi. N. Sethna, Chancellor.
2. Dr. A. K. Dhan, Vice-Chancellor
3. Dr. S. C. Banwar, Pro Vice-Chancellor
4. Dr. I. Hussain, Dean of Students' Welfare.
5. Mrs. M. R. Mawlong, Registrar.
6. Mr. J. C. Binwal, Librarian.
7. Prof. T. Mathew, Dean, School of Social Sciences
8. Prof. R. R. Mishra, Dean, School of Life Sciences
9. Prof. H. Junappa, Dean, School of Physical Sciences
10. Prof. D. P. Singh, Dean, School of Languages
11. Prof. C. L. Anand, Dean, School of Education.
12. Prof. A. G. George, Department of English
13. Prof. P. S. Ramakrishnan, Department of Botany.
14. Prof. M. Miri, Department of Philosophy.
15. Prof. T. S. B. Nasaraju, ,, Chemistry.
16. Prof. S. N. Rao, ,, History.
17. Prof. K. K. Gupta ,, Phisics.
18. Prof. A. L. Verma, ,, Physics.
19. Prof. M. K. Khare, ,, Zoology.
20. Dr. S.N. Guha Thakurta, Head, Department of Economics.
21. Dr. J.B. Bhattacharjee, ,, ,, History.
22. Dr. (Mrs) S. Miri, ,, ,, Philosophy.
23. Dr. R. L. Wali, ,, ,, Pol. Science
24. Dr. A. P. Sinha, ,, ,, Sociology &  
Anthropology.
25. Dr. Majid Hussain, ,, ,, Geography
26. Dr. S. S. Khare, ,, ,, Mathematics.
27. Dr. R. Lalthantluanga ,, ,, Biochemistry.
28. Mr. C. P. Tewari, Head Centre for Contg. & Adult Edn.
29. Mr. H. Bareh, ,, Centre for Creative Arts.
30. Principal, St. Edmund College, Shillong (upto 13.4.81)
31. Principal, St Anthony's College, Shillong ( —do— )
32. Principal, St. Mary's College, Shillong. ( —do— )

33. Principal, Lady Keane Girls' College, Shillong ( —do— )
34. Principal, Union Christian College, Barapani ( —dc— )
35. Principal, Shillong College, Shillong ( —do— )
36. Principal, Tura Government College, Tura ( —do— )
37. Principal, Sankardev College, Shillong. (from 10.4.81)
38. Principal, P. G. T. C., Shillong ( —do— )
39. Principal, Law College, Shillong. ( —do— )
40. Principal, Synod College Shillong ( —do— )
41. Principal, Jowai Government College, Jowai ( —do— )
42. Principal, Mendipathar College, Mendipathar ( —dc— )
43. Principal, Seng Khasi College, Shillong. ( —do— )
44. Principal, FaZl Ali College, Mokokchung (upto 9.4.81)
45. Principal, Science. College, Kohima. ( —dc— )
46. Principal, Dimapur College, Dimapur ( —do— )
47. Principal, Kohima College, Kohima ( —do— )
48. Principal, Tuensang College, Tuensang (from 10.4.81)
49. Principal, Patkai Christian College, Dimapur ( —do— )
50. Principal, Mount Tiyi College, Wokha ( —do— )
51. Principal, Nagaland College of Education, Kohima. ( —dc— )
52. Principal, Pachhunga University College, Aizawl. (upto 9.4.81)
52. Principal, Lunglei College, Lunglei ( —do— )
54. Principal, Champhai College, Champhai ( —do— )
55. Principal, Serchhip College, Serchhip (from 10.4.81)
56. Principal, Mizoram Institute of Education, Aizawl. ( —dc— )
57. Principal, Aizawl College, Aizawl ( —do— )
58. Dr. M. L. Kar, St. Edmund's College, Shillong. (from 16.1.81)
59. Mr. L. D. Shira, Tura Government College, Tura. ( —do— )
60. Mrs. H. Khongwir, Lady Keane Girls' College, Shillong. ( —do— )
61. Mr. A. J. Aier, FaZl Ali College, Mokokchung. ( —do— )
62. Mr. B K. Sarkar, Dimapur College, ( —do— )

63. Mr. Lalchungnunga, Aizawl College, ( —do— )  
Aizawl.
64. Mrs. A. D. Tham, Lady Keane Girls' College, (upto 15.4.81)  
Shillong.
65. Mr. A. G. Momin, Tura Government ( —do— )  
College, Tura.
66. Mr. B. M. Talukdar, St. Anthony's College, ( —do— )  
Shillong.
67. Mr. H. Gupta, Kohima Art College, ( —do— )  
Kohima.
68. Mr. Rokhamlova, Pachhunga College, ( —do— )  
Aizawl.
69. Mr. A. J. Aier, Fazl Ali College, ( —do— )  
Mokokchung.
70. Mr. Bijoy Krishna Handique, Member, (from 10.4.81)  
Rajya Sabha.
71. Mrs. Ila Bhattacharya, Member, ( —do— )  
Rajya Sabha.
72. Mr. C. Konyak, Member, Lok Sabha (from 5.10.80)
73. Mr. M. L. Lawrence, Member, Lok Sabha ( —do— )
74. Mr. Sobeng Tayeng, Member, Lok Sabha ( —do— )
75. Mr. Pius Tirkey, Member, Lok Sabha ( —do— )
76. Mr. Syed Abdul Malik, Member, (upto 9.4.81)  
Lok Sabha.
77. Mr. Irengbam Tombok Singh, Member, ( —do— )  
Lok Sabha.
78. Dr. L. M Singhvi, 30-Lodi Estate, (upto 15.1.81)  
New-Delhi.
79. Mr. J. Swer, Meghalaya, Shillong. ( —do— )
80. Mr. Zafar Fatehally, Dodda Gubbi, ( —do— )  
Bangalore.
81. Dr. Nangshi Aier, Impur, Nagaland ( —do— )
82. Dr. P. N. Wahi, Panchsheel Marg, ( —do— )  
New-Delhi.
83. Mrs. B. Khongmen, Lachumiere, Shillong. ( —do— )
84. Rev. Karbenson D. Sangma, Mission ( —do— )  
Compound, Tura.

85. Dr. C. L. Hminga, Lunglei, Mizoram ( —do— )
86. Mr. P. M. Narielvala, 36-Ganesh Chandra Avenue, Calcutta. ( —do— )
87. Prof. R. B. Singh, Banaras Hindu Univ., Varanasi. ( —do— )
88. Prof. R. K. Mishra, All India Institute of Medical Science, New Delhi. (from 16.1.81)
89. Dr. Anand Sarup, Pantnagar, Nainital. ( —do— )
90. Mr. Vicki Kapoor, 70-71, Mysore Colony, Bombay. ( —do— )
91. Mr. K. N. Modi, Federation of Commerce and Industry, New Delhi. ( —do— )
92. Mr. A. Rahman, CSIR, New Delhi. ( —do— )
93. Dr. K. V. Swaminathan, Department of Science & Technology, New Delhi. ( —do— )
94. Prof. K. N. Kaul, 16, Gokhale Marg, Lucknow. ( —do— )
95. Mr. M. R. Kolhatkar, Joint Secretary, Ministry of Education & Culture, New Delhi *Vice* Shri M. N. Sinha resigned. ( —do— )
96. Mrs. S. L. Singla, Department of Agriculture, New Delhi. ( —do— )
97. Mr. K. C. Mehra, Resident Director, Tata Industries Ltd., Jeevan Tara, New Delhi. ( —do— )
98. Mr. Lalchamliana. P. G. Centre, NEHU, Shillong. (from 20.5.81)
99. Mr. Andrew Sangma, P. G. Centre, NEHU, Shillong. ( —do— )
100. Mr. Vanthungo Lotha, P. G. Centre, NEHU, Kohima. ( —do— )
101. Mr. Laithanzuava, P. G. Centre, NEHU, Aizawl. ( —do— )
102. Prof. T. A. A. Latif, 3, Cathedral Garden, Madras. (upto 15.1.81)
103. Prof. R. Rath, Senior Prof. & Head, Post-Graduate Department of Psychology, Utkal University, Vani Vihar, Bhubaneswar. ( —do— )

104. Mr. Hokishe Sema, P.O. Akulote, Via-Mokokchung, Nagaland. ( —do— )
105. Mrs. Rano M. Shaiza, M. P., 2-Teen Murt Lane, New Delhi. ( —do— )
106. Prof. A. J. Borde, Principal, Wilson College, Bombay. ( —do— )
107. Mrs. A. Kunta, Jawaharlal Nehru University, New Delhi. ( —do— )
108. Prof. Kaikobad, Tata Institute of Social Sciences, Bombay. ( —do— )
109. Prof. J. J. Nanavaty, 11, Napier Road, Pune. ( —do— )
110. Prof. Santosh Sengupta, Department of Philosophy, Visva-Bharati. ( —do— )
111. Dr. (Mrs.) Madhuri R. Shah, Vice-Chancellor, Women's University, Bombay. (upto 15.7.81)
112. Prof. B. M. Udgaonkar, Homi Bhabha Road, Colaba, Bombay. (from 28.10.80)
113. Prof. Ranjit Singha, Prof. of Horticulture, Division of Horticulture and Fruit Technology, IARI, New Delhi. (from 15.7.81)
114. Mr. R. Khathing, Jaiaw, Shillong. (upto 18.4.81)
115. Dr. G. Thyagarajan, R. R. L, Jorhat. (upto 26.2.81)
116. President, NEHUNSA, Shillong. (from 10.4.81)
117. General Secretary, NEHUNSA, Shillong. ( —do— )
118. Mr. C. Wolflang, OSD, SCERT, Meghalaya, Shillong. (upto 18.4.81)
119. Mr. R. T. Rymbai, Shillong. ( —do— )
120. Mr. J. B. Jasokie, Kohima. ( —do— )
121. Mr. M. Kithan, Wokha, Nagaland. ( —do— )
122. Mr. P. Rohmingthanga, Aizawl. ( —do— )
123. Mr. C. Wolflang, Director, SCERT, Shillong. (from 15.5.81)

124. Mr. W. M. S. Pariat, Joint Director of Public Instruction, Shillong. ( —do— )
125. Mr. O. Kathipri, Midlane, Kohima Town, Kohima. (from 4.5.81)
126. Mrs. Rano M. Shaiza, Mission Compound, Kohima. ( —do— )
127. Mr. S. L. Sailova, I.A.S, Secretary to the Govt. of Mizoram, Education & Social Welfare Deptt., Aizawl. (from 15.5.81)
128. Mr. K. N. Channa, New Delhi. (upto 18.4.81)
129. Dr. S. Homchaudhuri, Reader, English Department, NEHU. (from 6.9.80)
130. Director of Public Instruction, Meghalaya. ( —do— )
131. Director of Education, Nagaland. ( —do— )
132. Director of Education, Mizoram. ( —do— )
133. Mr. T. R. Jayaraman, Bangalore. (from 3.9.80)
134. Prof T. M. Jacob, Bangalore. ( —do— )
135. Dr. Rais Ahmed, Aligarh. ( —do— )
136. Dr. H. Barch, Reader, Centre for Creative Arts, NEHU. ( —do— )
137. Prof. M. V. Mathur, Director, National Staff College for Educational Planners & Administrators, New Delhi. ( —do— )
138. Prof. Udai Pareek, Indian Institute of Management, New Ahmedabad. ( —do— )
139. Prof. S. Manzoor Alam, Head, Department of Geography, Osmania University, Hyderabad. ( —do— )
140. Dr. A. S. Diviatiya, Project Manager, Bhabha Atomic Research Centre, VECP, Sector -1, Block, A.F. Vidhan Nagar, Calcutta. ( —do— )

## MEMBERS OF THE ACADEMIC COUNCIL

1. Dr. A. K. Dhan, *Vice-Chancellor*.
2. Dr. S. C. Banwar, Pro-Vice-Chancellor and Acting Vice-chancellor.
3. Prof. D. P. Singh, Dean, School of Languages, NEHU.
4. Prof. T. Mathew, Dean, School of Social Sciences, NEHU.
5. Prof. R. R. Mishra, Dean, School of Life Sciences, NEHU.
6. Prof. H. Junjappa, Dean, School of Physical Sciences, NEHU.
7. Prof. C. L. Anand, Dean, School of Education, NEHU.
8. Dr. Imdad Hussain, Dean Students' Welfare, NEHU.
9. Dr. (Mrs.) S. Miri, Head, Department of Philosophy, NEHU.
10. Dr. A. P. Sinha, Head, Department of Anthropology, NEHU.
11. Dr. M. K. Khare, Head, Department of Zoology, NEHU.
12. Dr. J. B. Bhattacharjee, Head, Department of History, NEHU.
13. Dr. S. N. Guha Thakurta, Head, Dept. of Economics, NEHU.
14. Dr. R. K. Rai, Head, Department of Geography, NEHU.
15. Dr. A. L. Verma, Head, Department of Physics, NEHU.
16. Dr. T. S. B. Narasaraju, Head, Department of Chemistry, NEHU.
17. Dr. S. S. Khare, Head, Department of Mathematics, NEHU.
18. Dr. R. L. Lalthantluanga, Head, Department of Bio-Chemistry, NEHU.
19. Dr. P. P. Gokulanathan, Head, Department of Education, NEHU.
20. Dr. R. L. Walli, Head, Department of Political Science, NEHU.
21. Dr. A. C. Sinha, Head, Department of Sociology, NEHU.
22. Dr. H. Bareh, Head, Centre for Creative Arts, NEHU.
23. Mr. C. P. Tewari, Head, Centre for Continuing Education, NEHU.
24. Mr. J. C. Binwal, Librarian, NEHU.
25. Principal, Pachhunga University College, Aizawl.
26. Principal, College of Agriculture, Medziphema, Nagaland.
27. Prof. R. G. Michael, Department of Zoology, NEHU.

28. Prof. A. G. George, Department of English, NEHU.
29. Prof. P. S. Ramakrishnan, Department of Botany, NEHU.
30. Prof. M. Miri, Department of Philosophy, NEHU.
31. Prof. C. N. Bhalerao, Department of Political Science, NEHU.
32. Prof. K. K. Gupta, Department of Physics, NEHU.
33. Principal, St. Mary's College, Shillong.
34. Principal, St. Anthony's College, Shillong.
35. Principal, Sankardev College, Shillong.
36. Principal, Kohima College, Kohima.
37. Principal, Fazl Ali College, Mokokchung, Nagaland.
38. Dr. K. J. Joseph, Department of Education, NEHU.
39. Mr. P. K. Saikia, Department of Mathematics, NEHU.
40. Dr. Y. S. Chauhan, Department of Botany, NEHU.
41. Dr. S. Hom Chaudhuri, Department of English, NEHU.
42. Dr. Noorul Hasan, Department of English, NEHU.
43. Dr. G. Thyagarajan, Director, R. R. L, Jorhat, Assam.
44. Dr. S. K. Jain, Director-General, Botanical Survey of India, Calcutta.
45. Prof. L. P. Vidyarthi, Department of Anthropology, Ranchi University, Ranchi.
46. Prof. (Mrs.) K. Shabbir Khar, Department of Economics, Aligarh Muslim University, Aligarh.
47. Mr. H. W. Sten, Sankardev College, Shillong.
48. Mr. D. P. Chakravorty, St. Anthony's College, Shillong.
49. Mr. M. L. Kar, St. Edmund's College, Shillong.
50. Mr. B. B. Kumar, Kohima Science College, Kohima.
51. Mr. Ikram Uddin Ahmed, Kohima Science College, Kohima.
52. Mr. Ramesh Burgohain, Lunglei Government College, Mizoram.
53. Mrs. M. R. Mawlong, Registrar and Secretary, NEHU.

## SCHOOL OF LANGUAGES

### Department of English

The Department of English of the North-Eastern Hill University was established in 1973. It is the only department in the school of languages. This is a teaching and research department. The department has been trying over the years to contribute to the socio-cultural development of the people of the North-Eastern Region by catering to the Educational needs of the people of the hill areas.

In the academic year 1980-81 the department admitted fifty-nine students to the M.A. Previous Class and twenty two to the M.A. final year class.

#### Analysis of Students' intake :

1980-81	Male	Female	Total	Out of St.	of which Others
Semester -I	28	31	59	39	20
Semester -III	16	19	35	25	10

#### Research Activities :

Six Ph. D. scholars are working on different areas of literature. The details are as follows :—

Name	Topic	Supervisor.
<b>Ph. D.</b>		
1. Fr. K. George, Headmaster, St. Anthony's School, Shillong.	Existentialism as Literary Theory and its impact on the Novel and the Drama.	Dr. A. G. George.

2. Mr. H. W. Sten      The development of      Dr. A. G. George  
Lecturer in Eng-      Khasi Poetry : A study  
lish & Khasi,      of English influence  
Sankardev Col-      (1842-1940).  
lege, Shillong
3. Mr. Anjan K.      Northrop Frye and      —Do—  
Nath.      Criticism as a syste-  
matic Science.
4. Mrs. Manju S.      Image of man in the      —Do—  
Syiem      Novels of Joseph  
Conrad.
5. Mrs. T. Ao.      Art as theme in mo-      Dr. D. P. Singh  
dern fiction wth spe-  
cial reference to the  
novels : 1. The Golden  
Bowl. 2. The Portrait  
of the Artist as a young  
man 3. Sons and Lo-  
vers. 4. Howard 'End  
5. Tarr.

### Department of English (Aizawl)

The Mizoram Campus of North-Eastern Hill University came into being in October, 1979. Since then, the Department of English is putting its efforts, to cater to the needs of higher education in Mizoram. The department has a special responsibility particularly towards the young aspirants in the field of English language and Literature.

#### Analysis of Students' intake :

1980-81	Male	Female	Total	of SC	which ST
M. A. I Semester	13	6	19	-	17
M. A. III Semester	4	-	4	-	4

### Department of English (Kohima)

The M. A. (English) Course in Nagaland Campus, Kohima was inaugurated on Sept. 8, 1979.

#### Analysis of Students' intake :

1980-81	Male	Female	Total	of which SC	of which ST
M. A. I Semester	7	3	10	-	9
M A. III Semester	-	2	2	-	1

The English Literary Society of the English Department, presented a play on November 22, 1980. The play, 'A time to Heal' was staged by the society for the public at the Sahitya Sabha Hall, Kohima. Songs and a Shakespearean parade were presented before the Play. A Campus Week was organised from Oct. 19 to 24, '81. A series of Lectures conducted by the English Literary Society was held at the Kohima College. The two-week course held from 1.9.81 to 16.9.81 highlighted on the History of English Literature. The object of the course was to give an adequate background of English literature to the B.A. (Pass) students. The Department has extended its collaboration with the other departments in organising various lectures, and seminars. Miss Easterin Kire a Student of the department won the gold medal in the Bertrand Russell All India Essay Competition in 1980.

## SCHOOL OF SOCIAL SCIENCES

### Department of Economics

The Department of Economics, a unit in the School of Social Sciences started functioning from October, 1974. The Courses of study and research in the department are designed to train competent economists who will have the capacity and expertise to interact with the sister branches of learning and to relate the theories learnt to the institutional and historical conditions of the society and to the analysis of current economic problems of the region as well as of the nation. 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. The department organises its teaching and research activities at the following levels :

1. Study and Research at the Universal level of knowledge ;
2. Study and Research that are relevant to issues and problems of national significance ;
3. Study and Research of specific programmes, focussing on local and regional areas.

The department offers the following Post-Graduate Courses of study and research :

- a). M.A., b). M. Phil/Pre-Ph D., and c.) Ph. D.

#### Analysis of Students' intake :

Courses	Male	Female	Total	of which SC	ST
M. A. I Semester	23	24	47	1	31
M. A. II Semester	24	10	34	-	28
Pre-Ph.D.	2	2	4	-	4
Ph.D.	-	1	1	-	1

Of those admitted in the First Semester 27 are B.A. (Honours) and 20 are B.A. Pass students. During the year 1980-81 the department admitted the following students in the Pre-Ph.D. Courses. They are :

1. Mr. Polycarpus Ksoo, 2. Mr. Donkumar Roy, 3. Miss Diccovy Dkhar, and 4. Miss Petuenia Kharwanlang.

One student has completed the Pre-Ph. D Courses and thereafter has been recommended for the Ph. D. Programmes.

Besides, offering the course to full time students, the department is also offering Pre-Ph.D. Courses for the benefit of college teachers so that the department might help in the effort to upgrade the standard of teaching at the college level.

#### **Publications :**

1. Dr. T. Mathew (Ed)
  - a) "Tribal Economy of North Eastern Region." Spectrum Publication, Gauhati, 1980.
  - b). "Rural Development in India." Agricole Publishing Company, Delhi, 1981.
  - c). "Development of the Hill Areas of the N.E. Region - Problems and Prospects of Development." Agricole Publishing Co, Delhi, 1981.
  
2. Dr. S.N. Guha Thakurta
  - a). "Agricultural Growth and Land Distribution in Meghalaya in Development of the Hill Areas of the N.E. Region", in T. Mathew, Development of Hill Areas of the N.E. Region, Problems and Prospects of Development. Agricole Publishing, Co., Delhi, 1981.

b). "An Aspect of Man Power Planning in the N. E. Region" in T. Mathew, Tribal Economy of N. E. Region, 1981.

3. Dr. M. K. S. Nair

a). "Socio-Economic Formations in the United Khasi and Jaintia Hills District of Meghalaya : A Preliminary Note" in T. Mathew, op. cit.

## Department of History

The Department of History has been endeavouring to specialise in the History, Institution and Cultures of the North-East India in its Post-Graduate and research programmes, besides, offering courses on Indian History and History of mankind in the global context from pre-historic to contemporary periods, covering formation, evolution and development of the cultures and institutions and acquainting the students with the latest trends in historical thoughts and methods. Of the 36 courses offered in the M.A. programme, 7 are on North East India. Two of these are compulsory survey courses in Semester I and II and the rest are optional for the semesters III and IV, designed with an intent to enable the students to undertake research on the political, social and economic problems of the region. Majority of the research students in the department are working on the North East of India and some of them have already been awarded the M. Phil Degree. As a matter of fact, the award of the M. Phil degree to four candidates and submission of the Ph. D thesis by one candidate are among the highlights of the department during the year under review. To develop an advanced centre of studies for this region has been the objective of the department, since its inception.

Since its establishment the department has considerably grown in strength both in terms of students and teachers. The demand for admission has increased over the years and to cope with the pressure, the number of seats in the First Semester was raised from 35 to 46 in the 1980-81 academic session. More than 80% percent of the students are always from the local communities of this region.

**Analysis of students' intake :**

Courses	Male	Female	Total	of SC	which ST
M. A. I Semester	31	15	46	2	38
M A. III Semester	30	7	37	-	35
M. Phil.	9	2	11	-	9
Ph. D.	3	4	7	-	5

Of the 46 students admitted in 1980, 38 belonged to the Scheduled Tribes of this region.

The following students have been awarded the M. Phil degree in the academic session 1980-81.

Name	Title	Supervisor
1. Mr. D. R. Syiemlieh	Constitutional Development in the Khasi and Jaintia Hills, 1824- 1950	Dr. S. N. Rao
2. Mrs. P. Goswami	Socio - Economic impact of the Tea Industry in Upper Assam.	Dr. J. B. Bhattacharjee
3. Miss Jharna Dutta	Social Change in South Cachar.	Dr. J. B. Bhattacharjee
4. Miss Sudatta Sikdar	Assam Trade of the Arunachalis (1874-1905): A Study of the British Policy.	Dr. J. B. Bhattacharjee

**Ph.D.**

One student has completed his Ph.D. Work.

Name	Subject	Supervisor
Mr. S. C. Dutta	The North - East and the Mughals (1661-1714).	Dr. J. B. Bhattacharjee

Seven students have been doing research under various faculty members for their Ph.D. degree. Nineteen students have been working under the supervision of various faculty members for their M. Phil. degree.

**Publications :**

1. Dr. J. B. Bhattacharjee :

*Edited Works :* 1. Proceedings of the North-East India History Association (1980) Shillong. This is a collection of 20 research papers that were presented in the first Annual Session of the Association held at Shillong in November 1980.

2. Social Tension in North-East India (in press). Being published by Research India Publication, Calcutta. This volume is a collection of 26 papers on contemporary situation in the North Eastern Region of India, presented in the Seminar held at Shillong in June 1980 under the joint auspices of the ICSSR and NEICSSR.

*Papers :*

1. "The British Trade Policy in North East Frontier and the History of Frontier Trade," XIXth Annual Conference of the Institute of Historical Studies, Almora, 1980.
2. "The Jaintia Rebellion in the context of Indian Struggle," Souvenir of Chittagong Uprising Celebration Committee, Calcutta (in press), 1980.

3. "The Eastern Himalayan Trade of Assam during the Colonial Period", Proceedings of the North East India History Association, Shillong Session, 1980.
4. "Identification of Mirza Nathan's Kachar", Indian History congress, Bombay, 1980, (Contributed).
5. "Social formations in Pre-Colonial Garo Society, Problems and Processes," Seminar, Department of Education, Govt. of Meghalaya, Shillong, 1980.

2. Dr. (Mrs) H. Giri :

1. "Anglo-Khasi Relations - Political and Constitutional 1765-1947" A thesis approved for the Ph.D. of Gauhati University, July, 1980.
2. "Social Institutions among the Khasis with special reference to Kinship, family life, marriage and divorce" Seminar, Education Department, Govt. of Meghalaya.
3. "The Social and Political Ideals of the Khasis and the impact of the British rule on these ideals", Proceedings of the N.E. India History Association, Shillong, 1980.

3. Dr. Milton S. Sangma :

1. "A History and Culture of the Garos" 1980.
2. "The last battle of the Garos against the British, 1872-1873" Souvenir published by the Education Department, Government of Meghalaya.

3. "British Policy in Garo Hills", Proceedings of the North East India History Association, Shillong, 1980.
  4. "Land Revenue System in Garo Hills", NEICSSR Seminar on the Tribal situation in the N.E. India, Shillong, 1980.
4. D1. Sandeep Chawla :
1. "Britain, India and Palestine : 1917-1940." A thesis approved for Ph.D. degree from the University of Delhi, June 1981.
  2. "The Palestine Issue and Indian Politics in the 1920s." in Mushirul Hasan (Ed) Communal and Pan-Islamic Trends in Colonial India, N. Delhi, 1981.
5. Mr. D. R. Syiemlieh :
1. "Integration of the Khasi States into the Indian Union", Proceedings of the N.E.I. History Association, Shillong, 1980.
6. Mrs. Priyam Goswami :
1. "Socio-Economic impact of Tea Industry in Upper Assam", Proceedings of the N.E.I. History Association, Shillong, 1980.
7. Miss Sudatta Sikdar :
1. "Trade Fairs in Arunachal - Assam Border", Proceedings of the N.E.I. History Association. Shillong, 1980.

## Department of Philosophy

The orientation of the department is towards examining the issues concerning the understanding of human society in general and tribal society in particular. To this end, the department concentrates on logical issues of the social sciences, religious, moral and political problems and tribal culture.

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

### Analysis of students' intake :

MA I & II Semesters	Male	Female	Total	of which			
				SC		ST	
	19	16	36	M	F	M	F
III & IV Semesters	12	11	23			8	2
M. Phil 1980 & 1981	4 3	3 3	7 6			3 1	1 1
Ph. D.							

**Publications :**

1. Mrinal Miri :

- (a) "Mental States" in Logic Ontology and Action ed. K. K. Banerji, 1981.
- (b) "My Language and Yours" in Man in India, 1980.

**Forthcoming Book :**

- (a) *Language and Politics in N.E. India (ED)*.

**Papers :**

- (a) "Unity in Diversity" in 'Indian Philosophical Quarterly' with Dr. (Mrs) Sujata Miri.
- (b) "Dreaming" forthcoming in Volume entitled Wittgenstein in India

**Seminar and Conference :**

- (a) Attended Seminar on Concepts and Universals, Jadavpur University.
- (b) Attended an All India Conference on 'Problem and Perspectives : North-East' held at Chandigarh '81.

2. Sujata Miri :

- (a) "*Nietzsche and Exceptional man*" in Indian Philosophical Quarterly.
- (b) "*Unity in Diversity*". in Indian Philosophical Quarterly.

**Forthcoming :**

- (a) "*Devatma and Suffering*" in Vol. titled Philosophy of Devatma.
- (b) "An Introduction to the Study of Tribal Religions" in a book titled "The Khasi Milieu" (O. Mawrie's trans) Concept Publishers.

**Conference :**

(a) Presented a paper in an All India Conference on 'Problem and Prospectives : North-East' held at Chandigarh '81.

3. Harsh Narain :

(a) 'Anvikaiki as Dialectic', Ludwik Sternbach Felicitation Volume (Lucknow : Akhila Bharatiya Sanskrit Parisad, Dec. 1979) 579-92.

(b) 'Process View of Existence and Its Buddhist Developments', Review of Darshana, I, 1 (July '80), 61-68.

**Forthcoming :**

(a) 'Prakrtivadi Devatma-Darsana Pracina Bharatiya Bhautika-veda ke Sandarbha men', being published in a Souvenir on Devatma.

(b) 'Philosophy of Swaminarayan and Ramanuja', New Dimensions in Vedanta Philosophy, John Carman & others, eds, (Ahmedabad : Bochasanwasi Aksharapurushottam Sanstha 1981), Part I, pp. 152-157.

**Seminar and Conference :**

(a) "Geeta Conference" : (Jodhpur ; Geeta Bhawan, December 14-48 1980) 17-21.

(b) 'Ghalib Qunuti ya Raja' i Jamiah LXXVIII i (January 1981)

(c) 'Sramanya aur Brahmanya ki Sagotrata': *Kosa La*, III, 1-2 (July, 1980- January, 1981), 7-21.

4. N. Malla :

**Forthcoming :**

(a) 'A note on the Concept of Yoga', in Indian Philosophical Quarterly, Vol. VIII, No. 4 July 1981.

(b) 'Swaraj, Science and Civilization Gandhi Marg', Sept. 1981, Vol. 3, No. (603)

**Conference :**

- (a) Philosophy of Milinda and Nagaseva, presented to the All India Seminar on Buddhism, held in Dec. 1980 and included in the proceedings of the Seminar which is being published,

**5. Jagat Pal :****Conference :**

- (a) 'The Gita and philosophy of life', Jodhpur International Gita Conference, 1980.

**Ph. D. Theses :**

- (a) The Ph. D. thesis 'The Role of Religious Belief in North-East India' by Mrs. Anju Joshi has been successfully completed.
- (b) 'The Ao Naga Religion' by Mr. Imchayanger has been completed (M. Phil dissertation)
- (c) 'Understanding Tribal Culture : with particular reference to Thadou Tribal Culture of North-East India' an M. Phil dissertation by Mr. S. M. Paokai has been completed.
- (d) A research project on 'An Anthropo-Philosophical approach to the study of man and his religion in North-East India', under the auspices of the ICSSR undertaken by Dr. (Mrs.) Sujata Miri has been completed. A part of the conclusion has been published in a book titled "The Khasi Milieu".

## Department of Political Science

The Department of Political Science started functioning on 10th September, 1974 with 35 students. In the academic year 1980-81, the department has 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.

### Objectives and Developments :

This department has consistently attempted to contribute to the realisation of the objectives of the University Act within the ambit of its duties. The department of Political Science aims at building up an academic community of students, teachers and research scholars devoted to a dispassionate, open and critical study of the political problems of India in particular and the world in general. The department has incorporated modern trends and techniques in the teaching of Political Science. The M.A. Programme of the department is on the Semester system.

The department has on its roll fourteen students who are involved in the research programme. Most of them are working on topics having a bearing on the problems of N.E. Region. The department commenced a regular M. Phil. Programme from the academic year 1979-80.

### Analysis of Students' intake :

M.A.	Total	Male	Female	S.T.
I & II Semesters	31	16	15	22
III & IV Semesters	28	16	12	18

### M. Phil and Ph. D.

UGC Teacher Fellows (M. Phil.)	..	4
M. Phil. (with fellowship).	..	4
(without fellowship)	..	2
Ph. D. (with fellowship)	..	1
(without fellowship)	..	1

Out of the above-mentioned Research Scholars one M. Phil. and one Ph. D. are about to submit their dissertations.

**Publications :**

Mr. M Bhaskaran Nair —*Article* : “The East Pakistan Awami League : Its Origin and Development : 1949-58. A Study in Political History.” NERC Bi-Annual Journal of Social Sciences, Vol. 1, March, 1981, pp. 73-117.

M1. L. S. Gassah —*Article* : “Social Tension in Meghalaya : Fear of Being Swamped” in the Seminar held at Shillong and sponsored jointly by NEICSSR - NERC (ICSSR) Shillong (proceedings of the Seminar already sent to the press for publication).

“The War-Jaintias in Transition”, paper presented in the Seminar on ‘Tribes in N.E. India’, jointly sponsored by NEICSSR and Sacred Heart Theological College, Mawlai, Shillong, 22-24 September '80.

Presented a paper on “Village Administration in Jaintia Hills - A Comparative Study”, in the Seminar on ‘The Indigenous Institutions of the Khasis, Jaintias and Garos’, Department of Education, Govt. of Meghalaya, Shillong, 1980.

## Department of Sociology.

The Department of Sociology and Anthropology started its teaching and research programmes in 1976. The department admitted 25 students in the M.A. Course in Sociology. At the moment it has a strength of six teachers. Its two classes, M.A. previous and final have the strength of 50 students. The M. Phil programmes have been going on since 1976 and is being pursued by 15 research students. One faculty member has registered for Ph. D. programme in the department.

### Analysis of Students' intake :

1980-81	Male	Female	Total	of ST	which SC
M.A. I Semester	15	10	25	22	—
M.A. III Semester	16	9	25	19	—
Ph. D.	1	—	1	—	—
M. Phil.	12	3	15	10	—

The following students were awarded M. Phil degrees in the academic year 1980-81.

- |                           |  |                  |
|---------------------------|--|------------------|
| 1. Mr. Gopo Bihari Panda. | “Langkyrdem ; an ecological study of a Khasi village”  | Dr. A. C. Sinha. |
| 2. Mr. Lovingson Gassah.  | “Traditional leadership in Jaintia Hills - The system of political administration in in the past and present.” | —do—             |
| 3. Miss Reshma Mirani.    | “Khasi Symbolism.”   | Dr. A. P. Sinha. |

During the year under review the department had undertaken the following research project. “Impact of the Introduction of grouping of Villages in Mizoram” sponsored by the ICSSR under the supervision of Dr. C. Nunthara. The project was completed this year and the report was submitted.

A seminar on the "Status of Literature of Hill Societies of the North-Eastern Region" sponsored by the University was organised by the department in March, 1981, at Mokokchung, Nagaland. A team of twenty-one students and two teachers participated in the XVth Indian Sociological Conference held at Meerut University in November 2-4, 1980.

**Publications :**

Dr. A. C. Sinha :

"Ranas, Kazis and Dassos : Emergence of Aristocracy in the Himalayan Kingdoms in Elite and Development (ed) Sachchidananda and A.K. Lal, Concept, New Delhi, 1980.

"The Sources of the Social History of Contemporary Sikkim" in the Sources of the History of India, Vol 3 (ed) Ray, N. R., Institute of Historical Studies, Calcutta, 1980.

"Ethnic Identity and Rural Violence in India" in Tribal Development and its administration, (ed) Vidyarth, L.P. Concept, New Delhi, 1980.

"Resource Distribution and Multiple Ethnic Identity in Sikkim", Asian Highland Societies" in Anthropological Perspective, (ed) Haimendorf, C. Von F., Sterling publishing House, New Delhi, 1981.

"Observation as a Method : A technique of Social Research" in the journal of Social Research, Vol. XXIV(I) March, 1981.

"Himalaya Ka Sanskritik aur Simantiy Sandarv' Manav Vol. IX(2), June, 1981.

Dr. M. N. Karna :

“Studies in Bihar’s Economy and Society” (Ed) Concept Publishing Company, New Delhi, 1981.

“Caste and Concepts of Health in a North Bihar Village” in Studies in Bihar’s Economy and Society, Karna, M. N., (Ed) Concept Publishing Co., New Delhi, 1981.

“Agrarian Structure in Bihar : A Historical Overview” in Sociological Aspects of Land Reforms, S.K. Lal (ed) in press.

“Agrarian studies in N. E. India : Some Reflections” Eastern Anthropologist, in press.

“Agrarian Structure and Peasant Mobilisation : The Bataidari Struggle in Madhubani, 1967-75” Sociological Bulletin. in press.

Dr. C. N. Nunthara :

Dr. C. N. Nunthara : got Ph. D. in April 1981 from Delhi University on the topic ; “The Politics of the Mizo Hills” which is being revised for publication.

Dr. V. Xaxa :

“Evolution of Agrarian Class Structure and Class Relations in Jalpaiguri District, Bengal,” in Sociological Bulletin, March 1980.

## SCHOOL OF ENVIRONMENTAL SCIENCES

### Department of Geography.

The Department of Geography of the School of Environmental Sciences was started in June 1976 and became operational from the academic session of 1976-77. From its very inception the teaching and research programmes have been organised with a view to fulfilling the aims and objectives of the department.

The main objectives of the department were to create and develop understanding of the various environmental processes, both physical and cultural, so that the training and knowledge which is being imparted in the M.A./M.Sc. courses will disseminate geographical knowledge in the region where the subject has hardly any effective footing.

It is also the aim of the department to carry out useful research in the region with broader objectives of fulfilling the geographical dimension of the problems of development in the region.

#### Analysis of Students' intake :

Class	Male	Female	Total	SC/ST
M.A./M.Sc. Semester I	23	2	25	18
Pre. Ph. D.	4	0	4	2
Ph. D.	1	0	1	0

#### Publications :

Mr. A. C. Mohapatra : "Economic Development in the State of Madhya Pradesh - India," Third world Planning Review, Vol. 11. Liverpool U. K.

S. S. A. Jafri. "Aerial Photo Interpretation Techniques in Agricultural Geography in Recent Trends and Concepts in Geography" R. B. Mandal (ed) Concept, New Delhi.

Dr. Majid Hussain : "Agricultural Geography " Inter India. New Delhi.

Dr. R. K. Rai : "Geomorphology of the Sonar - Bearing Basins, Concept, New Delhi.

**Conference and Seminar :**

Dr. R. K. Rai attended the 68th Science Congress at Varanasi from 3rd to 7th January, 1981 and read a paper entitled "Fluvial morphometric analysis of the Umkhri Basin Meghalaya." In the Conference of National Association of Geographers, India, held at Tirupati from 9th to 12th January, 1981, he read a paper "Geomorphology and settlements in Meghalaya." He also attended the field conference from 19th to 26th April, 1981 on Geology and Landforms of North-East Region.

Dr. Majid Hussain attended an International Conference in Netherlands from 10th to 15th April, 1981. He also attended the Indo-Soviet Geographical Symposium held at J. N. U. from December 9 to 12, 1980.

**Department of Educational Research and Studies  
Shillong, Kohima and Aizawl.**

The Department of Educational Research and Studies of the School of Education of North - Eastern Hill University started functioning in Shillong since 1976. The first programme organised was the Master of Education with an intake of 19 students. The M.A. programme was opened in Kohima in 1978 and M. Ed. programme at Aizawl in 1979-80. The M. Phil programme was started in Shillong in 1979. Students are admitted to the Ph. D. programme also. In all these programmes, special attention is given to the needs, problems and priorities of the region. The M. Ed. programme is aimed at developing advanced level of competence in various fields of educational work so that it will help the qualitative improvement of the system. The M.A. programme aims to prepare personnel with good grounding in the discipline of Education who can assume responsible positions in the state departments of Education, educational institutions and in research institutions.

**The achievements of the department :** Out of the total number of students who qualified for the degree of M.Ed 45.46 percent belonged to the Scheduled Tribes. Many of them have become faculty members in Teachers Training Institutions, Degree Colleges, SCERT and also in the Department itself. The results in respect of 13 (thirteen) candidates out of 15 (fifteen) in the M.A. Education programme have been finalised and announced. The Semester Examination results of M. Ed. students at Aizawl have also been finalised.

**Analysis of Students' intake :**

Year	Centre	Pro-gramme	Total students admitted	Male	Female	ST	SC
1980-81	Shillong	M.Phil	2	—	1	1	—
1980-81	Shillong	M.Ed.	18	6	12	11	—
1980-81	Aizawl	M.Ed.	17	12	5	14	—
1980-81	Kohima	M.A.	21	9	12	17	—

**Publications :**

Dr. C. L. Anand :

1. Anand, C.L. : "Sensory and Motor Development (in) Readings in Social Science," Ministry of Education, Govt. of India, New Delhi, 1981.
2. Anand, C. L. : "Education and Modernization," Thinkers Forum, Nagaland.
3. Anand, C.L.: "Role of Objectives in Evaluation : Help or Hinderance (in) Readings in Evaluation," NCERT, New-Delhi.
4. Anand, C.L. : "Evaluation Outcomes of Learning in Social Studies (in) Readings in Evaluation," NCERT, New Delhi.
5. Mathew George and Anand, C.L. : "Effect of Micro Teaching on Teaching Self Concept and Teaching Competence of Student Teachers, DERS, NEHU, Shillong.
6. Anand, C.L. and Padma, M. S. "Improving Teacher Education Curriculum" (Chapter in Teacher Education and Educational Technology. Osmania University, Hyderabad, (In Press).
7. Anand, C. L. : "Aspects of Teacher Education in India and Abroad" (a book in Press).

Dr. K. K. Sharma.

1. Evaluation of Learning Outcome - Annual Magazine, Nagaland College of Education, 1980.
2. Curriculum pattern development - our curriculum concerns curriculum group NCERT February, 1981.
3. Curriculum for rural development - our curriculum concerns curriculum group NCERT February, 1981.

Dr. M. S. Padma.

1. Modelling in Teacher Training Indian Educational Review, Vol. XV, No. 4, Oct, 1980.
2. Science Teaching Observation : Need for tools, the Progress of Education, Vol. LV, No. 5, December, 1980.

Dr. Mathew George.

1. Project report "Effect of Microteaching on Teaching Self-concept and Teaching Competence of Student Teachers" DERS, NEHU, Shillong, December, 1980.
2. Creative Teacher Personality and Classroom Teaching Behaviour of Secondary School Teachers" Journal of Educational Research and Extension, Vol. 17, No. 3, January, 1981.
3. "Effect of Creative Teaching on Creative Thinking of Adolescents" Indian Psychological Review, Vol. 20. No. 3, 1981.
4. "Institutional Plan of the Integrated Teacher Education Programme proposed for B. Ed. Course" Quest in Education, Vol. 18, No. 1, January, 1981.

Dr. J. C. Soni.

Presented a paper on "Effective Utilisation of Educational Technology in Schools". Extension Teaching Course of Directorate of Education, Nagaland, April-May, 1981.

Dr. Sudhir Kumar.

1. Relevance of University Education and Research/View of the University. Thinker Vol VII No. 3, August, 1979.
2. Sudhir Kumar and Lalrinkini : "Modernity and Education The concept of Modernisation of Education : The Course and Context of modernisation" (accepted for publication).

## **SCHOOL OF LIFE SCIENCES**

### **Department of Zoology**

The teaching and research programmes of the department of Zoology, are meant to fulfil the aims and objectives envisaged in the Act of the University. This has helped to develop the academic infra-structure of the hill states under the jurisdiction of this University. Eighty five percent of the Tribal population inhabiting these states subsist mainly on Agriculture. The department of Zoology identified those basic needs of the region and to launch out on problems of immediate needs. As the region is a part of the Indian sub-division of the oriental, these hill states are endowed with wide variety of fauna both terrestrial and aquatic. Moreover, with a fairly high rainfall, these areas abound in hill streams of all dimensions inhabited by both macro and micro fauna.

The objective of the department is two fold, viz, (i) to train post - graduate students to take up teaching in schools and colleges and to work as research personnel in scientific institutions of the Central and State governments and (ii) to take up research programmes on various problems related to the animal life in these hill regions with a view to utilize such knowledge for future development. Seized with such objectives the department of Zoology, along with its sister department of Botany, with experts available on the faculty in various field of research, have been concentrating on regionally oriented problems in either Forest Ecology or Fresh Water Biology both in the larger perspective of Ecology. Hence, fields like Limnology, Developmental Biology, Cell Biology, Cytogenetics, Biochemistry & Adaptational Physiology, Ecophysiology of aquatic invertebrates, Fish Biology and Biosystematics were all directed towards the understanding of a particular ecosystem - first a fresh water and then the populations and community inhabiting them.

Problems have been identified on a regional basis and various research scholars are given different aspects of the major theme to enable them to build up in the near future definite approach to Zoological studies in general and to that discipline in particular.

Thrust areas of the department of Zoology are Fresh water Biology and Forest Biology and it offers to the students a number of specializations such as Altitudinal limnology, Development and Morphogenesis, Aquatic entomology, Fish and Fisheries Biochemical limnology and Forest Entomology. Students gain not only basic knowledge of these special areas, but are also trained in Research Methodology by conducting a research project of two semesters duration. Thus, the training of post-graduate students have generated so far the much needed scientific man power for this region as many of the students are employed as College lecturers and Research officers in Fisheries, Agriculture and Forest departments. Of course, some return to the department for research towards the Doctoral degree.

#### Analysis of Students' intake :

M.Sc. (Zoology)	Male	Female	Total	of SC / which ST.
Previous I and II Semesters.	10	10	20	8
Final III & IV Semesters	14	6	20	4*
M. Phil.	—	—	—	—
Ph. D.	29	8	37**	6

\* These were the only applications from tribal students

\*\* Out of the 37 students 7 students admitted in 1980-81. had to take Pre. Ph. D. Course, but those having 3 years teaching experience in affiliated Colleges were later exempted from this course.

#### Awards and Honours :

- Prof. R. George Michael, F. N. A. Sc., was elected as a member of Governing Council of the National Academy of Sciences of India for 1980-81.
- Dr. S. A. K. Nasar was awarded Toyota Scholarship to participate at the First Workshop on the promotion of limnology in developing countries at Kyoto Japan (August 1981).

- (c) Prof. M. K. Khare was elected Fellow of the National Academy of Sciences India (F.N.A.Sc.) Oct. 1980.

Following candidates were conferred the degree of Doctor of Philosophy at the Convocation in May 1981.

Name of candidate.	Year of submission of thesis	Supervisor.
1. Dr. (Mrs) Debjani Roy	1979	Dr. M. K. Khare.
2. Dr. Vikram Reddy	1980	Dr. J. R. B. Alfred.
3. Dr. Arabinda Majhi	1980	Dr. K. Chatterjee.
4. Dr. Abhik Gupta	1980	Dr. R. G. Michael
5. Dr. Parimal Kanti Das	1980	Dr. R. G. Michael
6. Dr. (Mrs) Sabitry Choudhury	1980	Dr. M. K. Khare.
7. Dr. Donbor Roy Thangkhiew	1980	Dr. R. G. Michael
8. Dr. Bidhan Bhattacharya	1980	Dr. R. G. Michael

#### Publications :

##### (a) Papers Published :

- Anders A., Kollinger, G. and Chatterjee, K. 1980 Cytogenetics of Heritable and Induced Melanoma in *Xiphophorus*. *Yale Journal of Biology and Medicine* 53:420.
- Kollinger, G., Chatterjee, K. and Anders, A. 1980. Cytological studies on spontaneous and induced melanoma in *Xiphophorus*. *European Journal of Cell Biology* 22: 542.
- S. A. K. Nasar, Munshi J. D. 1980. Studies on the seasonal variations in the fungal population of a fresh-water pond of Bhagalpur, India. *Limnological (Berlin)* (12): 137-139.
- S. A. K. Nasar, Sarkar, A., Badre, R. V. 1980. An abnormal record of high oxygen production in the KOL of River Ganga at Bhagalpur, India, *Jour. Ichthyol.* 1: 41-42.

- S. A. K. Nasar., and Sharma, M. 1980. Primary productivity in relation to the abiotic factors in a temporary fresh-water pond. *Acta Hydrochim. Hydrobiol.* 8 (5) 435-442.
- S. A. K. Nasar. 1980. Primary productivity studies on Fresh water fish-ponds of Bhagalpur (India). *Acta Hydrochim. Hydrobiol.* 8(6) : 569-581.
- Pardhasaradhi A. and J R B Alfred, 1981. A longitudinal and altitudinal distribution of fish in two hill streams of N. E. India. *Matsya.*
- Pardhasaradhi, A. and J.R.B. Alfred, 1981. A note on the biogeographical relictness of *Pillaiia indica* Yazdani (Pillaiidae : Mastacembeloidei). *J. Bombay Nat. Hist. Soc.*, 78(1) : 175-177.
- Raghu Varman, A., 1981. Resilin in the abdominal enticle of workers of the honey ants, *Myrmecocystes mexicanus* J. Georg. Ent. Soc. (U.S.A.), 16(1) : 11.
- Ramanujam S. N. and B. K. Ratha 1980. Glucose-6-phosphate Dehydrogenase (G<sub>6</sub> PDH) and Lactate Dehydrogenase (LDH) Activities into air breathing and two gill breathing species of a fish - a comparative study. *Proc. Ind. Nat. Sci. Acad.* 46(B) : 168-171.
- Ramnujam S. N. and B. K. Ratha, 1980. Comparative studies on acetyl cholinesterase activity in different tissues of two air-breathing fish two gill breathing species of fishes. *Comp. Physiol. Ecol.* 6:233-237.
- Sharma, B. K. 1980. New records of eurotatoria from Assam State, India, Bangladesh. *Zool.* 8(1) : 149-150.
- Sharma B. K. 1980. Contributions to the rotifer fauna of Punjab State, India, I. Family Brachionidae. *Hydrobiologia*, 76 : 249-253.
- Sharma, B. K. 1980 A New Lecanid Rotifer from West Bengal, India, Bangladesh *J. Zool.*, 8(2) : 131-132.
- Tandon, V. 1981. Stereoscan observations on the surface topography of *Gastrothylax crumenifer* (Creplin, 1847) Poirer, 1883 and *Paramphistomum epiclitum* Fiscoeder 1904 (Trematoda L. Digenea). *Journal of Helminthology*, 55,231.237 (1981).
- Chauhan, Y. S. and Singh, R. P. Effect of chronic gamma rays

on *Chenopodium album* L. Journal of Indian Botanical Society 59 : 170-172.

- Chauhan, Y. S. 1980. Radioprotective effects of 2,4- Dichlorophenoxyacetic acid. Phytomorphology 30 (2) : 159-163.
- Ravindran, S. and Chauhan, Y. S. 1980 Studies in the reproductive biology of alkaloid yielding solanums. I. Temperature, sucrose and boron requirements for pollen germination and pollen tube elongation. Journal of Palynology 16 (1 and 2) : 1-8.
- Chauhan, Y. S. and Ravindran, S. 1980. Hormonal regulation of gamma ray induced effect on heterostyly in *Solanum khasianum* Clarke. Phytomorphology 30 (4) : 317-320.
- Rao, R. R. and Razi, B. A. 1981. A synoptic flora of Mysore district. A book published by Today and Tomorrow's Publishers, New Delhi.
- Rao, R. R. 1980. Ethnobotanical studies on the flora of Meghalaya. Some curious reports of herbal medicines. "Glimpses of Indian Ethnobotany" (ed. S. K. In Jain) pp. 137-148.
- Rao, R. R. 1981. Ethnobotany of Meghalaya Medicinal Plants. Econ. Bot. 35 : 4-9.
- Rao, R. R. and Neogi, B. 1980. Observations on the Ethnobotany of Khasi & Garo tribes in Meghalaya. J. Econ. Tax. Bot. 1 : 157-162.
- Rao, R. R. and Dam D. P. 1980. Non indigenous plant in the flora of Shillong and its neighbouring areas. Bull. Meghalaya Sci. Soc. 3 : 43-65.
- Rao, R. R. and Rao M. K. V. 1980. The genus *Eupatorium* in N.E. India. Proc. Ind. Nat. Sci. Acad. 46(4) : 587-592.
- Rao, R. R. and Baishya, A. K. 1980. Some ecological & phytogeographical observations on the pteridophytic flora of Meghalaya. J. Econ. Tax. Bot. 2 : 31-39.
- Neogi, B. and Rao, R. R. 1980. Floristic composition of the weed flora and seasonal variation and phenological pattern of some dominant weeds of Agricultural lands in Meghalaya. Proc. Ind. Nat. Sci. Acad. 46(4) : 579-586.

- Haridasan, K. Kumar, Y. and Rao, R. R. 1981. Enumeration of some important forest weeds of Meghalaya with special reference to their role and ditribution. J. Econ. Tax. Bot. 2 : 161-171.
- Haridasan, K. Kumar, Y. and Rao, R. R. 1981. *Chirita hamoca* R. Br. (Gesneriaceae) and interesting plant record from Meghalaya. J. Econ. Tax. Bot 2: 241-42.
- Tondon, P. and Arya, H. C. 1980. Auxin autotrophy and hyperauxinity of *Eriophes* induced *Zizyphus* stem galls in culture. Biochem. Physiol. Pflanzen. 175 : 539-543.
- Tandon, P. and Arya, H. C. 1980. Presence of auxin protectors in *Eriophyes* induced *Zizyphus* stem galls. *Experientia*. 36(8) : 958-959.
- Tandon, P. and Arya, H.C. 1980. Separation of auxin protectors from *Zizyphys* gall tissues by Sephadex gel filtration. *Curr. Sci.* 49 (22) : 864-865.
- Tondon, P. 1980. Genetic information in Chloroplast DNA. In Proceedings of Plant Tissue Culture, Genetic manipulation and somatic cell hybridization of Plant cells. Deptt. of Atomic Energy, Govt. of India, 255-265.
- Dutta, B. K. 1979. Effect of foliar application of organic and inorganic chemicals (antibiotics, growth substances and fungicides) on disease development and plant vigour in sunflower (*Helianthus annus* L.) plants infected with *V. albo-atrum* R. & B. Journal of Gauhati University XXVI - XXVII. Science 41-46.
- Dutta, B. K. and Issac, I. 1981. Control of *Verticillium* wilt of tomato by antibiotic chemotherapy. *Zeitschrift fur pflanzenkrankheiten and pflanzenchult.* 88(5) : 276-285.
- Dutta, B. K. and Elizabeth Bremner 1981. Trace elements as plant chemotherapeutant to control *Verticillium* wilt. *Zeitschrift fur pflanzenkrankheiten and pflanzenchult.* 88(7) : 405-412.
- Reddy, P.M. and Talpasayi, F. R. S. 1981. Some observations related to Red, Far Red antagonism in germination

of spores of the cyanobacterium *Anabaena fertilissima*.  
Biochem. Physiol. Pflanzen 176, 105.

Chandra, S. and Prasad, M. N.V. 1979-80. Two new species of *Zaleskioxylon* from Kamthi Formation. Phyta. 2,3 : 1-10.

Prasad, M. N. V. and Chandra, S. 1980. *Palaeospirozylon* a new gymnospermous wood from Raniganj Coalfield, India. Palaeobotanist, 26(3) : 230-236.

Prasad, M. N. V. and Chandra, S. 1981. Two species of *Australoxylon* from the Kamthi Formation of Chandrapur District, Maharashtra. Geophytology, 11(1) : 1-5.

#### Papers accepted for Publication :

Anders, F., Chatterjee, K., Schwab, M., School, E. and Anders, A. 1981. Tumor gene expression and interphase chromatin appearance in *Xiphophorus*. American Zoologist 21.

Anders, A., Kollinger, G. and Chatterjee, K. 1981. Heritable and Induced Melanoma in *Xiphophorus*. Pigment Cell Vol. 6.

Bhagwati, A. and A. R. Varman, 1981. Changes in the free amino acid composition in the haemolymph of the fresh water crab, *Parathelphusa levis* during various conditions. Sci. & Cult.

Darlong, V. T. and J. R. B. Alfred 1981. Differences in arthropod structure in soils of forest and Jhum of North-East India. Pedobiologia.

Kaur, S. and Nasar, S. A. K., 1981. On the length-weight relationship and condition factor of *Channa gachua* (Ham.) Arquivos do Museu Bocage.

Khare, M. K., D. Roy and A. Kumar 1981. Induced breeding in two Indian frogs. Proc. Nat. Acad. Sci. India 51(B).

Khare, M. K. and S. Choudhury 1981. Appearance and localization of the eye differentiation tendencies in the chick embryo. Proc. Nat. Acad. Sci. India. 51(8).

- Nasar, S.A.K. and M. Dasgupta, 1981 Preliminary observations on the biology of the juveniles of *Barilius bendelis* Ham. from River Simsang. Meghalaya (India) Arquivos do Museu Bocage.
- Nasar, S.A.K. 1981. Limnology in India: What should we do next? Proc. First. workshop on the promotion of Limnology in Developing countries. Kyoto, Japan.
- Nasar, S.A.K. and S. Kaur, 1981. Observations on the abiotic factors and planktonic periodicity in a shallow pond from the highlands of Shillong (India.) Acta Hydrochim. Hydrobiol. 9.
- Ratha, B. K. and A. K. Bhagowati, 1981. Inhibition of Tyrosine amino Transferase activity during severe hypoxic stress in a fish, *Cyprinus carpio*. Ind. J. Biochem Biophys.
- Sahu, A. K. and M. K. Khare, 1981. Field key of *Rana alticola* tadpoles. Jour. Bon. Nat. Hist. Soc.
- Sharma, B. K. and Tiwari, K. K. 1981. Studies on head pores of some Indian species of Chydorids (Cladocera : Chydoridae). Bull. Zool India. 4(2).
- Sharma, B. K. and Sharma (Ne Das), Sumita. 1982. A note on some enotatoria from Punjab State, India. *Hydrobiologia*.
- Tandon V, 1981. Amphistome Fauna of ruminants in Himachal Pradesh. Ind. J. Parasitol.
- Tandon V., 1981. On *Deuterobaris intestinalis* Mehrotra, 1973 and *Octangium takenoi* Kobayashi, 1921 (Trematoda : Microscaphididae) from a marine turtle in India. Proc. Ind. Acad. Sci.
- Tandon V., 1981. Observations on the neurosecretory cells of the sheep's rumen fluke, *Paramphistomum epiclitum* Fishoeder. Ind. J. Helminthol.
- Vikram Reddy, M and J. R. B. Alfred 1981. Population dynamics of the aphid *Neomyzus circumflexus*. Colemania.

**Submission of Ph. D. Theses :**

Following candidates submitted their theses for Ph. D. degree during 1980-81.

Name of student	Title of thesis	Month of submission	Guide
1. Mr. Sudip Dey	Studies on Certain biochemical aspects of vision in some arthropods.	July, 1980.	Dr. A. Raghu Varman
2. Mr. Abhik Gupta.	The taxonomy and biology of Ephemeroptera (may flies) of Meghalaya State, India.	August, 1980	Dr. R. George Michael.
3. Ms. Sabitry Choudhury.	Studies on Establishment of Neural differentiation pattern in prospective Prosencephalic area of chick embryo ( <i>Gallus domesticus</i> ).	Sept, 1980.	Dr. M. K. Khare.
4. Mr. Parimal Kanti Das.	Studies on the limnology of Tasek lake and adjacent water bodies in Garo Hills, Meghalaya with special reference to the chocolate Mahseer <i>Accrossocheilus hexagonolepis</i> McLelland.	Sept, 1980	Dr. R. George Michael.
5. Mr. Bidhan Bhattacharya	Studies on Biology of cladocera of altitudinal lakes and ponds of North Eastern Hill Region.	Dec., 1980	Dr R. George Michael

6. Mr. Donbor Roy Thangkhiew. Studies on the breeding and rearing of *Cyprinus Carpio* L. and *Labeo rohita* (Ham) in the altitudinal situations of Meghalaya alongwith an experiment on composite fish culture. Jan. 1981 Dr. R. George Michael.
7. Mr. Anup Kumar Sahu. Studies on System and Ecology of certain anuran tadpoles of North Eastern India. April, 1981 Dr. M. K. Khare.
8. Mr. S. N. Ramanujam. Some physiological and biochemical studies on the effects of a piscicidal plant *Xanthoxylum armatum* DC, on fresh water fishes. July 1981. Dr. B. K. Ratha.
9. Mr. Sukhbir Kaur. Studies on some aspects of ecology and biology of *Channa gachhua* (Hamilton) and *Channa stewartii* (Pray Fair) July, 1981. Dr. S.A.K. Nasar
10. Mr. Pramod Kumar Vatsaluja. The ecological study of Jhum with particular references to soil arthropods of North Eastern Hill regions of India. July, 1981. Dr. J. R. B. Alfred.

## **Department of Botany**

The Department of Botany a constituent of the School of Life Sciences came into existence in 1974. Starting of a post-graduate department of Botany in the North-Eastern Hill Region under the North-Eastern Hill University has special significance as the entire area is extremely rich in forests and forest resources. Also this area has the unique distinction of being one of the richest geographical regions both from the floristic and faunistic point of view. On the contrary, the the North-Eastern Hill Region has also the unique problem of rapid degradation of its forest resources, germplasm resources and its environment due to slash and burn agriculture (Jhum) and cutting down of the trees for timber and fire wood.

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

Apart from the emphasis on general botanical studies special emphasis is laid on integrated approach to the study of forest biology and freshwater biology at M.Sc. level. The department offers specialization in forest ecosystem/freshwater ecosystem studies and a second level specialisation in any of the biological areas mentioned above. The research activities of the department are the same as given in the report last year. In addition, Dr. M. N. V. Prasad has initiated studies on Palaeobotany.

### Awards, Honours and participation in Seminars and Symposia.

Professor R. R. Mishra attended an International Symposium on "Microbiology of Leaf Surfaces" held at Aberdeen, U. K. in September 1980 and presented a paper entitled "Fungal succession on conifer needles". During his visit to U.K he also participated in the 2nd International Symposium on Microbial Ecology at the University of Warwick, Coventry and presented a paper entitled "Biological Activity measurements and heterotrophic bacterial populations in a freshwater lake". He founded the "Society for Microbial Ecologists of the Tropics" during the period under report. He was also elected as General Secretary of this Society. He was elected as the Vice President of Mushroom Growers' Association. Prof. Mishra attended the the 68th Session of Indian Science Congress Association held at Banaras Hindu University in January, 1981, and presented a paper on mycorrhiza of weeds (with Mr N. K. Verma). He also presented two papers one dealing with populations of mycorrhizae (with Dr. G. D. Sharma and Miss I. B. Kharsyntiew) and the other entitled "fungi in aquatic ecosystems" (with Dr. B. K. Tiwari) in the focal theme symposium of the Indian Science Congress.

Professor P. S. Ramakrishnan gave a plenary lecture on "Role of forests in Environmental management" during the Varanasi session of the Indian Science Congress Association in January, 1981. He spoke on "Some aspects of Environmental degradation in the North-Eastern Hill areas of India", in a symposium organised by the Indian Environmental Society at New-Delhi in June, 1981. At a seminar organized by the National Productivity Council at Shillong in February 1981, Professor Ramakrishnan spoke on "Forestry Problems in the North-East" as an aspect on "Productivity in Forestry Operations". He also participated in a plant physiology convention and presented a 'State of art report' on "Forest Biology" in the Country during June, 1981 at Nainital.

He was commissioned by the Department of Environment to lead a team of experts to make an ecological assessment of the proposed hydro-electric project at Silent Valley. In this connection he visited Silent Valley in March, 1981 and submitted a report to the Govt. of India.

Professor Ramakrishnan was associated with the following Academic Bodies/Institutions during the period under report :

- i) Members of the Editorial Board of the proceedings of the Indian Academy of Sciences (Plant Sciences).
- ii) Executive Councillor of the Indian Botanical Society.
- iii) Member of a Task Force on "Citrus Gene Sanctuary" at Garo Hills, Meghalaya constituted by the Deptt. of Environment, Govt. of India.
- iv) Members of a Forestry Committee constituted by the Science Advisory Committee to the Cabinet, Govt. of India for reorganization of forestry research in the Country.
- v) Executive Council member and member of the Research Advisory Committee of Regional Research Laboratory, Jorhat.
- vi) Member of the working group for the School of Life Sciences, Kanpur University.
- vii) Member of the Board of Studies in Life Sciences, Dibrugarh University and Environmental Sciences, Andhra University.

Dr. R. S. Tripathi participated in the symposium on "Development without Destruction" jointly organised by the Forest Department, Govt. of Meghalaya and School of Life Sciences, NEHU in October 3-4, 1980 and presented a paper entitled 'DDT in our Environment'. He also attended the seminar on Resource Potentials of North-East India organised by Meghalaya Science Society during April 28 to May 1 1981 and presented a paper, "Bamboos as renewable resource of North-Eastern India" Jointly with Mr Sudhir Trivedi.

The research paper entitled "RRL Jor-3-1970" an improved strain of Java Citronella "*Cymbopogon winterionus* Jorwitt Indian perfumer 23 (2) : 107-111, 1979" by Dr. Y. S. Chauhan and co-authors (D. Ganguly, Singh. K. K., Bhagat, S. D., Upadhyay, D.N., Gupta. N.K., and Singh, H.S.) was awarded the Dr. Sadgopal memorial medal for best research paper by Essential Oils Association of India, 1980.

Dr R. R. Rao participated in the symposium on Development without Destruction jointly organised by the Forest Department, Govt. of Meghalaya and School of Life Sciences, NEHU, during Oct. 3-4, 1980 and presented a paper entitled "Forest of North-Eastern India-prospects and constraints on utilization."

Dr. P. Tandon attended a symposium on plant tissue-culture, Genetic Manipulation and somatic cell Hybridization of plant cells in February 1980 at Bhabha Atomic Research Centre, Bombay and presented a paper on "Genetic Information in Chloroplast DNA" He also attended the 3rd Botanical Conference in December, 1980 held at Lucknow University, and presented a paper on "Peroxidase-catalysed oxidation of IAA and GHS in presence of auxin protectors from *Zixyphus* gall tissue and anti-oxidants. He was appointed as a member of the research consultative committee for Central Coffee Research Institute, Coffee Board in May, 1981 for a period of 3 years.

Dr. B. K. Dutta attended the 68th session of the Indian Science Congress Association held at Varanasi (Jan. 3-8 1981) and presented a paper entitled "Some studies on the ecology of the soil borne plant pathogen: Sensitivity of *Fusarium Vasinfectum* to antibiotics and fungitasis". Dr. Dutta also attended the 3rd Indian Botanical Conference held at Lucknow (Dec. 28-30, 1980) and presented a paper entitled "Evidences on the biological origin of soil fungitasis".

Dr. M. N. V. Prasad attended the symposium on "Three decades of developments in Palaeontology and Stratigraphy of India" organised by Geological Survey of India in December, 1980 at Hyderabad and presented a paper entitled "Palaeoecology of the Kamthi Formation its biostratigraphic significance".

### **Publications :**

- Ramakrishnan, P.S. 1980 Ecology in relation to taxonomy. For : Glimpses in Plant Research-Modern Trends in Plant Taxonomy (Ed. P. K. K. Nair) Vikas, New Delhi.
- Ramakrishnan, P.S. and Kanta, C. 1980 Comparative Biology of two closely related species of Euphorbia-competitive relationships. Proc. Indian Acad. Sci. (Plant Sci.) 89:421-427.
- Ramakrishnan, P.S. Form and Function in Ecologic a race formation, in "S. M. Sircar Commemoration Volume" pp. 277-274.
- Ramakrishnan, P.S., Toky, O.P., Mishra, B. K. Saxena, K. G. 1981. Slash and burn agriculture in North-Eastern in "Fire Regimes and Ecosystem Properties" (Eds. H. A. Mooney, T. M. Bonnicksen, N. L. Christensen, J. E. Lotan and W. A. Reiners). Gen. Tech. Rept. WO-- 26 USDA.
- Ramakrishnan, P.S. Toky, O.P. and Mishra, B. K. 1981. Jhum-An ecological assessment. In Souvenir Volume of Internat. Soc. Trop. Ecol. (Eds. A. Singh and P. Wahi). pp. 41-49.

- Ramakrishnan, P.S. and Toky, O.P. 1981. Soil nutrient status of hill agroecosystems and recovery pattern after slash and burn agriculture (Jhum) in North-Eastern India. *Plant and Soil* . 60 : 41-64
- Toky, O. P. and Ramakrishnan, P.S. 1981 Cropping and yields in agricultural systems of the North-Eastern Hill region of India. *Agro-Ecosystems*, 7: 11-25.
- Kushwaha, S. P. S., Ramakrishnan, P. S. and Tripathi, R. S. 1981. Population dynamics of *Eupatorium odoratum* L. in successional environments following slash and burn agriculture (Jhum). *J. Appl. Ecol.* 18:529-535.
- Ram Boojh and Ramakrishnan, P. S. 1981 Temperature responses to seed germination in two closely related tree sp. of *Schima Reinn.* *Curr. Sci.* 50. 416-418.
- Mishra, R. R. Sharma, G. D. and Gathpoh, A. R. 1980. Mycorrhiza in fern of North-Eastern Region. *Proc. Indian. Natn. Sci. Acad. B* 46:546-551.
- Mishra, R. R. and Sharma, G. D. 1980. Report on root nodule formation in *Crassocephalum* Sp. *Acta Botanica Indica* 8: 253-255.
- Mishra, R. R. Sharma, G. D. and Kharsyntiew I. B. 1981. Response of inoculum density of vesicular arbuscular mycorrhizal in maize. *Experientia* 37 : 568-569.
- Sharma, G. D. and Mishra, R.R. 1981. Mycorrhizal fungi in forest ecosystem. In symposium vol. on Development without destruction. Forest Deptt. of Meghalaya Govt. Publ. 51-61.

- Mishra, R. R., Tiwari, R. P. 1979, Studies on phyllosphere microflora. Effects of antibiotics and fungicides on leaf surface fungi and bacteria. Acta Botanica Indica 7: 57-63 (Published in 1980).
- Mishra R. R., Tiwari, B. K. and Deka H. K. 1980. Fungistasis activity of pine (*Pinus Kesiya Royle*) needle extracts. Acta Boatnica Indica 8: 158-163.
- Mishra, R. R. and Tiwari, B. K. 1980. Diurnal variation in population of viable, heterotrophic micro-organisms alkaline phosphatase and heterotrophic activities of two small ponds. Acta Botanica Indica 9:43-49.
- Mishra, R. R., Sharma, G. D. and Tiwari, B. K. 1981. Report on *Fusarium* wilt in *Pinus Kasiya Royle*. Curr. Sci. 50:35.
- Mishra, R. R., Tiwari, B. K., Deka H. K. and Verma, N. K. 1981. Fungi associated with cellulose decomposition in natural waters. Proc. Indian. Natn. Sci. Acad. 47 : 215-219.
- Mishra, R. R., and Das, P. K. 1980. Fungal succession on conifer needles pp. 475-485. In microbial ecology of Phylloplane, Academic Press London.
- Mishra, R. R. and Grover, S. K. 1979. Phyllosphere mycoflora of *Brassica campestris* L. Environ. India. 2: 18-22.
- Mishra, R. R. 1980. On certain aspects of some soil borne diseases pp. 41-51. In "Recent Advances in Biology of Microorganisms".
- Tripathi R. S. 1980. DDT in Environment. In symposium volume on "Development without Destruction" Forest Department of Meghalaya, Govt. Publ.

- Tripathi, R. S. and Gupta, G. P. 1981. The growth of *Bothriochlva pertusa* and *Dichanthium annulatum* in competition with each other at three water regimes. *Trop. Ecol.* 22 : 1-9.
- Yadav, A. S. and Tripathi, R. S. 1981. Population dynamics of the ruderal weed *Eupatorium odoratum* and its natural regulation. *Oikos* (Copenhagen) 36: 345-361.
- Kushwahal S. P. S., Ramakrishnan, P. S. and Tripathi, R. S. 1981. Population dynamics of *Scleria tessellata* wild a shade tolerant secondary successional species in slash and burn agriculture (Jhum) fallows. *Proc. Indian natn. Sci. Acad.* B47: 768-773.
- Tripathi, R. S., Singh, R. S. and Rai, J. P. N. 1981. Allopathic potential of *Eupatorium odeneophorum*-a dominant ruderal weed of Meghalaya. *Proc. Indian natn. Acad.* B47 : 458-465.
- Trivedi, S. Tripathi, R. S. 1981. Bamboo as an important renewable resource of North-Eastern India. In : "Resource Potentials of North-eastern India (eds. K. Nandi and R. S. Tripathi) Meghalaya Science Society.

## **Department of Biochemistry.**

The Department of Biochemistry was recommended by the U.G.C. Visiting Committee for the 5th Plan as an additional department under the School of Life Sciences. The University appointed the first batch of faculty in 1980. However, none except one Reader joined and he planned for the detailed requirements to start academic activities of the department. The proposal was sent to the U.G.C. for financial sanction for the 6th Plan (as the 5th Plan period was already over.)

### **Academic Activities :**

1. The Reader helped the departments of Botany and Zoology in their teaching programmes for M.Sc. and Pre-Ph. D. courses.
2. One research scholar who was working already with the Reader joined the department for the Ph. D. Degree.
3. Dr. R. Lalthantluanga collaborated with the group of Prof. G. Braunitzer, Max-Planck Institute of Biochemistry, Martinsried, W. Germany on the Study of Structure-Function, relationship of proteins. He visited the Institute from December 18, 1980 to March 15, 1981 on Max-Planck Society Fellowship.

### **Publications :**

1. The Primary Structure of the beta I and beta II chains of the hemoglobin of Yak in Hoppe-Seyler's X. Physiol. Chem 362, 1405-1409. R. Lalthantluanga, and G. Braunitzer.

## SCHOOL OF PHYSICAL SCIENCES

### Department of Physics

The department of Physics provides post-graduate education and offers research facilities in areas of physics relevant to the national and regional needs. It intends to train the students so that they may be able to tackle and solve various problems using their scientific skill. It thus hopes to build the scientific man-power required particularly in the north-eastern region of the country.

This was the fifth year of existence of the department. Four students completed their M. Sc. degree, and fifteen new students were admitted into the M. Sc. previous class during the year.

#### Analysis of Students' Intake

	Male	Female	Total	ST	SC
M.Sc. (Prev.)	11	4	15	1	0
M. Sc. (Final)	5	1	6	0	0
M. Phil/Ph.D.	—	—	—	—	—

#### Publications

- (1) Tunneling Motion of Dipolar Impurities in Alkali Halides : KBr : CN-System, A. L. Verma, J. Phys. C, Solid State Physics 13, 2009 (1980)
- (2) Tunable Lasers and Resonance Raman Scattering A. L. Verma ; Ind. J. Phys. 54 B, 54-68 (1980).
- (3) Rotational Isomers of Ethyl Dithio Acetate and Ethyl Thio acetate : A Raman Study ; A. L. Verma etal ; J. Raman Spectroscopy, 11, 390 (1981).
- (4) Spin-Glass Dynamics in the Spherical Model, P. Shukla and S. Singh, J. Phys. C14, L81 (1981).

- (5) A Quantum spherical Model of Spin Glass, P. Shukla and S. Singh, Phys. Lett. 81 A, 477 (1981).
- (6) Classical and Quantum Spherical Models of Spin Glass : A Complete Treatment of Statics and Dynamics, P. Shukla and S. Singh, Phys. Rev. B23, 4661 (1981)
- (7) Elastic and Inelastic Scattering of  $^{14}\text{C}$  by  $^{14}\text{C}$ , D. Konnerth, K. G. Bernhardt, K. A. Eberhard, R. Singh, A. Strazalkowski, W. Trantmann, and W. Trombik, Phys. Rev. Lett. 45, 1154 (1980).
- (8) Fluctuations in  $^{12}\text{C}$  ( $^{16}\text{O}$ ,  $^4\text{He}$ )  $^{24}\text{Mg}$  and  $^{12}\text{C}$  ( $^{16}\text{O}$ ,  $^8\text{Bc}$ )  $^{20}\text{Ne}$  reactions, R. Singh, K. A. Elberhard, and R. G. Stokstad, Phys. Rev. C22, 1971 (1980)
- (9) A new phonon frequency distribution function for quasi-two-dimensional systems, B. Dey and S. Singh, Phys. Lett. 81A, 147 (1981).
- (10) Mass spectrimetry of metal compounds -Part I. Intl. J. Org. Mass Spect., issue 16/7, 1981, D. T. Khathing with M. K. Chaudhuri, H. S. Das Gupta and M. Roy.
- (11) Synthesis and structural studies of akali oxytetra fluorovanadates (v), Synth. React. Inorg. Metal-Org. Chem. 11, issue 7, (1981), D. T. Khathing with M.K. Chaudhuri, H. S. Das Gupta, and S. K. Ghosh.
- (12) The direct synthesis of alkali penta fluoromanganates (III) J. Chem. Soc Dalton (London), in press D. T. Khathing with M. N. Bhattacharjee, M. K. Chaudhuri, and H. S. Das Gupta.
- (13) Alkali oxytetra fluorovanadates (V), J. Inorg. Synth. (accepted in 1981 for vol. 22), D. T. Khathing with M. K. Chaudhuri, H. S. Das Gupta and S. K. Ghosh.

**Papers Published in Proceedings of Conferences and Symposia :**

1. Raman Spectra and conformations of N' N'-Dimethyl Propargyl Amine, A. L. Verma, p-260. Heyden & Son (1980), Ed. by W. F. Murphy.

2. Spinglasses : Theoretical Status, P. Shukla, in Current-Trends in Magnetism, eds. L. Madhav Rao, and M. S. Satya-Murthy, IPA (1981).
3. Spinglass dynamics in quantum spherical model. P. Shukla, Nucl. Phys. and Solid State Phys. 23C(1980).
4. Stability of Thouless-Anderson Palmar spinglass ordering, P. Shukla, Nucl Phys. and Solid State Phys. 23C(1981).
5. Studies in the spherical model of spinglass, P. Shukla and S. Singh, Nucl. Phys. and Solid State Phys. 23C (1980).
6. Scattering and Reactions of  $^{14}\text{C}+^{14}\text{C}$  D. Konnerth K. G. Bernhardt, K. A. Eberhard, R. Singh, A. Stralkowski, W. Trantmann, and W. Trombik, Proceedings of the International Conference on Nuclear Physics, Berkeley, California, Aug. 24-30, Vol. I (1980).
7. Thermal and magnetic properties of quasi-one-dimensional magnetic systems, W. L. Basaiawmoit and S. Singh Nucl. Phys. and Solid State Phys. 23C (1980).
8. Electrostrictive effects in  $\text{RbH}_2\text{PO}_4$ , S. Singh, G. P. Singh, and B. K. Basu, Ferroelectrics 25, 519 (1980).
9. Science education in N. E. India-Meghalaya, Mizoram, and Nagaland, D. T. Khathing (in Press, Presented at National Seminar on N. E. India-Problems and Prospects of Development, April 27-May 1, 1981, Chandigarh Centre for Research in Rural and Industrial Development, Chandigarh).
10. The Role of Inelastic Channels for the Occurrence of Intermediate Resonances in  $^{12}\text{C}+^{12}\text{C}$  and  $^{14}\text{C}+^{14}\text{C}$ . W. Trombik, W. Trantmann, W. Dunnweber, K. A. Eberhard, W. Hering, D. Konnerth, and R. Singh, Havar Conference May (1981).

#### Collaboration with other Department/University/Institute

Prof. A. L. Verma visited the National Research Council of Canada, Ottawa from August 1 to October 10, 1980 as a visiting Scientist and studied some systems used as resonance Raman probes for monitoring catalytic transformation in enzymes.

Prof. Verma also visited the University of Amsterdam during his return journey to India and discussed some aspects of ongoing collaborative research programmes with Prof. J. van der Elsken.

Dr. Y. S. T. Rao had collaboration with Dr. S. K. Kataria, Nuclear Fission Group, BARC, on effective interactions in nuclear matter and related problems. He visited BARC during Dec. 20, 1980 to Feb. 5, 1981.

He also collaborated with Dr. S. C. K. Nair, Mr. C. Radha Krishnan, and Mr. M. C. Padmarai of Calicut University on effective interactions for nuclear spectroscopy and in termolecular forces.

Dr. R. Singh collaborated with the group of Prof. K. A. Eberhard and Prof. W. Hering, Sektion Physik, Universitat Munchen in the field of Heavy-Ion reactions. He visited Tandem Accelerator Laboratory, University of Munich at Garching (W. Germany) from Jan. 1 to Feb. 28, 1981, as a Guest Physicist of Sektion Physik and participated in  $^{16}\text{O}+^{14}\text{C}$  measurements on excitation functions and angular distributions.

Dr. S. Singh continued collaboration with Dr. B. K. Basu of the solid state physics group at TIFR, Bombay.

Dr. Y. S. Jain worked in collaboration with;

- (i) Dr. B. N. Khanna, Reader, Department of Physics, A.M.U., Aligarh.
- (ii) Dr. G. P. Srivastava, Professor, Department of Physics and Astrophysics, Delhi University, Delhi.

Dr. D. T. Khathing collaborated with

- (i) Dr. M. K. Chaudhuri, Department of Chemistry, North-Eastern Hill University, Shillong.

- (ii) Dr. A. Chatterjee, Bose Institute, Calcutta.
- (iii) Dr. S. Gangadharan, B. A. R. C., Bombay.
- (iv) Prof. A. J. Edwards, University of Birmingham, U. K.

#### **Participation in Symposia/Seminars/Workshops.**

Prof. A. L. Verma, Dr. Y. S. T. Rao, Dr. P. Shukla, Dr. R. Singh, Dr. S. Singh, Dr. Y. S. Jain, Dr. D. T. Khathing, Dr. P. N. Pandita, as well as several students and research scholars of the department participated in the Conference on "Physics of Disordered Solids" organized by the department in March 16-18, 1981.

Professor A. L. Verma attended the 7th International Conference on Raman Spectroscopy, held at University of Carleton, Ottawa, Canada, from Aug. 4 to 9, 1980, and presented a paper. He also gave a seminar on "Atomic Tunneling in Solid" organized by the National Research Council of Canada, Ottawa in September., 1980.

Dr. Y. S. T. Rao, Dr. P. Shukla, and Dr. S. Singh participate in the D. A. E. Nuclear Physics and Solid State Physics Symposium held at I. I. T. Delhi during December., 1980.

He also participated in the Heavy Ion Accelerate Workshop held at B. A. R. C. Bombay in November 1980.

Dr. P. Shukla and Dr. S. Singh also attended the I. P. A. seminar on "Current Trends in Magnetism" held at I. I. T., Delhi during Dec. 8-10, 1980. Dr. Shukla chaired a session each in the D. A. E. symposium and the I. P. A. seminar.

Dr. P. N. Pandita attended the 5th High Energy Physics Symposium, Cochin Dec. 26-30, 1980, organized by the DAE and the winter school in Theoretical High Energy Physics, Kalpakkam, Jan 1-14, 1981, organised by TIFR.

## Department Of Chemistry

The department of Chemistry, a constituent of the School of Physical Sciences, completed the fifth year of its existence in July '81. The status of Chemistry as a principal discipline for scientific advancement justifies the inception of this department under the North-Eastern Hill University which has the development of intellectual and academic background of the hill areas as its objective. This region being rich in natural resources demands a special emphasis on disciplines such as Chemistry to train students to achieve competence to utilize these resources for its economic development. Keeping this aspect in view the teaching programmes of the department are oriented to provide a unified perspective of both theoretical and practical knowledge of all the modern aspects of Chemistry, special emphasis being given to the application of Instrumentation for structural elucidation and analytical determination. A survey of the placement of ex-students of the department is a vindication of potential of the implemented courses structure to provide competent scientific personnel.

### Analysis of Students' Intake :

Batch Year of Study No.	No. of students who completed			SC	/	ST
	Male	Female	Total			
I 1981-83	11	9	20			2
II 1980-82	9	3	12			2

(a) A break-up of the number of Research Students of the Department.

Sl. No.	Category	No. of Students		Total	ST
		Male	Female		
1.	Ph. D Students (Full-time).	13	2	15	2
2.	Ph. D. Students (teacher candidates from affiliated colleges).	8	-	8	-
3.	Post-Doctoral Fellows	1	-	1	-

## PUBLICATIONS :

List of Research Papers published by the members of the Faculty during the academic year 1980-81.

1. Polarised Keten N, N- and S. N. Acetates as Novel Enamine Components for the Neutzesene Indole Synthesis, V. Aggarwal, A. Kumar, H. Ila and H. Junjappa, *Synthesis*, 157 (1981).
2. Reaction of Aromatic Amines with -Chloroacrylonitrile : A convenient two step synthesis of N-Aryl-2-Cyanoazendene using a phase transfer catalyst, S. Apparao, A. Kumar, H. Ila and H. Junjappa, *Synthesis*, 623 (1981).
3. Quantitative Seperation of calcium and phosphate through a potentiometric Hg-EDTA Titration, T. S. B. Narasaraju, U. S. Rai, P. Lahiry and P. R. Ram. *Acta Pol. Pharm.* 38, 383 (1981).
4. Transference number of charge-transfer complexes in solution : Methadol iodine and Ethanol - iodine, S. N. Bhat and Rajeev Dwivedi, *Proc. Ind. Acad. Sci.*, 89, 337 (1980).
5. Evidence of C-O cleavage in Effect of Temperature on the Mass Spectra of  $MN(CO)_5 Cl$ . M. K. Chaudhuri, H. S. Dasgupta, N. Roy and D. T. Kathing, *Ogr Mass Spectrometry*, 16, 303 (1981).
6. The Direct Synthesis and Characterization of Alkali Metal Hexafluorochromates (III)  $M_3 CrF_6$ , M. K Chaudhuri and N. Roy, *Synth. React, Inorg Metal-Org. Chem.* 11, 7th issue (1981).
7. The direct synthesis of Alkali Pentafluoromanganates (III) M.N. Bhattacharjee, M.K. Chaudhuri, H. S. Dasgupta and D. T. Kathing, *J. Chem Soc, Dalton Trans.*, 2587 (1981)
8. Novel synthesis of Alkali Metal Trifluorochromates (VI), M. K. Chaudhuri, H. S. Dasgupta and N. Roy, *Ind. J. Chem.*, 20. (1981).
9. Alkali Oxytetrafluorovanadates (V), M. K. Chaudhuri, H. S. Dasgupta, S. K. Ghosh and D. T Kathing, *Inorg, Synthesis*, Vol. 22. In press (1981).

10. Prediction of Reaction Sites in Fulvenes and Fulvalenes, M. K. Mahanti, *Ind. J. Chem.* 20B, 407 (1981).
11. Spectrophotometric Determination of Fe(III), Co (II), and Ni(II) by complexation with 2-(p-sulphophenylazo) -1, 8-Dihydroxynaphthalene-3. 8-Disulphonic acid, A. K. Bhattacharjee and M. K. Mahanti, *Ind. J. Chem.* 20A, 427 (1981).
12. Linkage Isomerism of NCS-Group in Ruthenium Complexes R. K. Poddar, R. Prasad and U. Agarwala. *J. Inorg. Nucl. Chem.*, 42, 837 (1980).
13. On the additivity of Molar volume and Refractivity of Molten  $\text{Ca}(\text{NO}_3)_2 \cdot 3 \cdot 18_{\text{H}_2}^{40}\text{O-KSCN}$  system, S. Mahiuddin and K. Ismail, *Bull. Chem. Soc., Japan* 54, 2525 (1981).
14. Trace -Elemental Analysis of Extracted Dust from Lungs Lymph Nodes of Domestic Animals using X-Ray Fluorescence Technique, K. K. Dwivedi, M. S. Prasad, G. N. Rao, R. K. S. Dogra, R. K. Upreti, Ravishankar, C. R. Krishnamurti, S.S. Kappor, Madan Lal and K. V. Vishwanathan, *Int. J. Environ. Anal. Chem.* 7, 205 (1980).
15. Trace Element Analysis using Energy-Dispersive X-Ray Fluorescence Techniques, Veena Joshi, K. K. Dwivedi, Prem Sagar, R. M. Singru and G. N. Rao, *Trans. I. I. M.*, 34, 372 (1981).
16. Electron Spin Resonance Studies of some Ruthenium (III) complexes O. K. Medhi and U. C. Agarwal, *Inorganic Chemistry*, 19, 1381 (1980).
17. Synthesis, Characterization and Physical Studies on Bromotropolonato complexes of Ru(III), O. K. Medhi and U. C. Agarwal, *J. Inorg. Nucl. Chem.*, 42, 1385 (1980).

**Title of research projects sanctioned to Faculty members by external funding agencies which are in progress during 1980-81.**

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

“Preparation and characterization of apatites for use as ion ex-changers for the removal of toxic ions” (UGC).

- (b) "Absorption Studies for Removal of Toxic Ions from - Industrial waste. In collaboration with Prof. M. S. Narayanaswamy, Civil Engg. Department, BHU, Varanasi (UGC).
- (c) "Project Amorphous Alloys" in collaboration with Prof. T. R. Anatharaman, Department of Metallurgical Engg., B. H. U. (DST).
- (2) **Dr. J. Subramanian :**  
"Electrochemical and ESR studies on Metallo-Porphyrins (CSIR).
- (3) **Dr. (Mrs) H. Ila :**  
"Synthetic Studies on stabilized allylic and azaallylic carbonions" (UGC : CAREER AWARD).
- (4) **Dr. S. N. Bhat :**  
"Charge transfer interaction of biomolecules" (UGC).
- (5) **Dr. M. K. Mahanti :**  
"Kinetics of Oxidative Cyclizations of Heterocyclic Molecules containing Amine, Imine and Thiol functions" (UGC).

**Participation of Faculty members in National/International Seminars and Symposia during 1980-81.**

Sl. No.	Name	Title of Paper/talk	Venue
(1)	(2)	(3)	(4)
1.	Prof. H. Junjappa	* (i) Synthetic utility of polarised Ketene dithioacetals : A New Class of Stable Vinylamides and Amines.	University of Madras Symposium on New Reagents Reactants and Rearrangements.
		* (ii) Polarized Ketene dithioacetals, Their S. N. and N.N. Analogous : A New Class of Novel synthetic Intermediates.	Chemistry Department University College, Calcutta, Fifth National Symposium in organic Chem.

2. Dr. (Mrs) H. Ila
- \* (i) Polarized Ketene S.N. Medicinal Chem. and N.N, - Acidital : A Div. CDRI, New Class of Vinyla- Lucknow. mides.
  - \* (ii) Polarized Ketene Chemistry Depart- S.N. and N. N. - acital : ment, University A New Class of Vinyla- of Delhi. mides.
  - \* (ii) Synthetic utility of Chemistry Depart- cyanotrimethylammonium ment University methylird. College of Science, Calcutta, Fifth National Symposium.
  - (iv) Synthesis of polarized keten N.N. - and S.N. Annual convention of chemist 1980. Diacetals as potential I.I.T. Bombay Enamine Components 6- Hydroxy Indole Synthesis.
  - (v) Synthesis of 3 [Bis Annual Convention (Methylthio) -/- 2cyano Chemists, 1980. Methyl -1 phenyl -2-propen-1-one and their reaction with Primary Amines : I.I.T. Bombay. A New General Method for 2- Amino Pyrroles.
3. Dr. S.N. Bhat
- (i) Kinetics of Transformation of outer charge-transfer complexes to inner complexes. Annual Convention of Chemists 1980. I.I.T., Bombay.
  - (ii) Transport number of charge transfer complexes in solution. —do—

\* Invited Lectures :

- |                        |  |   |
|------------------------|--|---|
| 4. Dr. M. K. Chaudhuri | (i) Novel Synthesis of Alkali metal Bifluorides and their use as Fluorinating agents.                                  | —do—  |
|                        | (ii) Some novel features in the mass spectra of chloropentacarbonylmanganese(I), $Mn(CO)_5Cl$                          | —do—  |
| 5. Dr. M. K. Mahanti.  | Kinetics and mechanism of oxidation of Methoxytoluenes by potassium hexacyanoferrate (III) in acid medium.             | —do—  |
| 6. Dr. K. Ismail       | A Hydration model for the concentration dependence of viscosity in Electrolyte solution ; $Ca(NO_3)_2 - H_2O$ system.  | National Academic of Science Meeting Calicut.                                       |
| 7. Dr. K. K. Dwivedi   | Energy Dispersive X-Ray Fluorescence Technique and its applications to Trace Element Analysis of Environmental Samples | International Symposium on Trace Analysis and Technological Development BAS Bombay. |

## Department of Mathematics

The Department of Mathematics, a constituent unit of the School of Physical Sciences, has completed the seventh year of its existence in August, 1981. The department aims at the welfare of the people of the North-Eastern Region, in particular, their intellectual, academic and cultural uplift by (i) imparting good grounding in Mathematics, (ii) providing facilities to students in fields like statistics, numerical analysis, operation research and other applications of mathematics which are suited to jobs in this region and to jobs likely to come up in this region in near future and (iii) developing a strong centre of advanced research in mathematics so as to enable this region to play a significant role in the scientific development in India and abroad as well.

The Department at present offers M. Sc., M. Phil and Ph. D programmes.

### Analysis of students' intake :

Courses	Male	Female	SC	ST	Total
M.A./M.Sc. I and II Semester	23	4	1	2	27
M.A./M.Sc. III and IV Semester	10	3	0	2	13
M. Phil	—	—	—	—	—
Ph. D.	2	0	0	0	2

### Research Publications of faculty members :

1) S. S. Khare and S. P. Choudhury : A note on quotients of finitistic spaces, accepted for publication in Indian Journal of Mathematics.

2) S. Ramasubramanian (jointly with R. N. Bhattacharya) Recurrence and ergodicity of diffusions, accepted for publication in J. Multivariate Analysis.

**Research Activities of the Department :**

In March 1981, the department admitted Mr. A. B. Chakravarty and Mr. N. J. Deb, Mathematics teachers from Lady Keane College, Shillong to its Ph. D. Programme.

In September 1980, Mr. P. K. Sakia's Ph. D. thesis on "Matrix of Local Zeta Functions for lattices over orders in a quadratic field", under the supervision of Prof. L. Solomon, was accepted by the University of Wisconsin.

## CENTRES

### Centre for Adult and Continuing Education.

The Centre for Adult and Continuing Education of the North-Eastern Hill University committed itself to programmes which are ambitious and wide-ranging, including formal as well as non-formal courses.

The main thrust of the Center's programmes is to extend and up-dating the skills of individuals and organisations in every part of various communities through community oriented courses, conferences, seminars and workshops. The basic formulation of all the activities of the Centre is to develop links between education, work and productivity, development for local and national needs and aspirations.

The Centre has also been collaborating with other agencies and organisations at State and National levels in organising such programmes.

The main programmes organised by the Center for Adult and Continuing Education during the year 1980-81 are given below :

Programme :	Duration :	No. of participants :
1. Course in Decorative Candle Making August 25-30, 1980.	6 days	45
2. Refresher Course in Modern Techniques of Teaching English.	8 Saturdays	16
3. Course in Library Science May 19 to October 20, 1980	4 months	26
4. Course in Home Gardening July 23, 26 and 28, 1980	5 days	31
5. Seminar on Low-cost Housing October 11, 1980.	1 day	75

6. Course in Fruit and Vegetable Preservation November 17 to 25, 1980.	6 days	5
7. Seminar on Development Administration March 28, 1981.	1 day	31

**Faculty :**

1. Mr. C. P. Tewari, Reader-in-Charge.
2. Miss. Asorphi Roy, Lecturer.

**Programme Organisers :**

1. Mrs. Isabella Lall
2. Mrs. P. Richa.

## **Centre for Creative Arts.**

The Centre for Creative Arts was started in 1977, by the University with a view to providing incentives in Art appreciation and education especially in this region. This was felt essential because only a few Universities in the country have so far introduced Art Education in the Post-Graduate level. The Centre has been striving to specify the important areas of research based upon the concept of the role of Creative Arts.

An important step in this regard is the publication of "Ka Jingpynroi bad Jingpynriewspah ia ka Jinghikai ia ka Khasi ha ha ki Skul, College bad University" by the Centre, devised to provide an appropriate Text-Book for Post-Graduate level and B. Ed. students. This was done for the improvement of standard of teaching Khasi. Infact, it is hoped that this publication would help the University in its plan to start M.A. Course in Khasi. The publication of this book is positive step towards meeting the inadequacy in text book materials that the Khasi language has been facing through the decades gone by.

The Centre has been making efforts to specify the areas of studies in Symbolic and Performing Art Designing and Applied Art, Folk Art and Cultural Heritage, Decorative Art and Craft and other patterns such as Fine Arts, Commercial Arts and Generalistic. These efforts are in pursuance of the need to organise courses and programmes in conformity with the Proceedings of Workshop on Art sponsored by the UGC in 1977. This would be helpful to introduce M.A. (Creative Art) programme in the University.

### **High lights of the activities of the Centre**

**Course on elementary music :** During the year under review the Centre conducted a three months course in elementary music to teach lessons on Tonic Solfa and Staff Notation. This was done with the intention to channelise talents in vocal music in keeping with the traditional norms in harmonisation. Voice

testing also constituted a part of the course. This helps to gain basic knowledge of the above mentioned aspects and of other musical forms. The course aims at creating an awareness of the value of the indigenous form of music and doing away with cheap and imitative forms. The Centre admitted 116 trainees to the course. The Theoretical and Practical examination will be conducted soon.

### **Collaboration in Film making**

The Centre collaborated with the Khasi Cultural Society in making the film "Ka Synjuk Ri ki Laiphew Syiem". Nearly 250 actors and actresses participated in different roles.

The movie was based on the local history of the period 1780 to 1810 A.D. The film displays cultural, socio-economic and political scenes and provides other glimpses of the past. The Centre in collaboration with the Khasi Cultural Society helped by more than 35 composers, artists and musicians in dubbing the film. The Reader-in-Charge of the Centre made the screen play.

The first screening of the film was conducted on September 9, 1980 in the Auditorium of the State Central Library, Shillong, under the sponsorship of the University.

### **Analysis of tribal teachers/students and institutions**

In the Seminar on Art, 8 University and College Teachers, 30 High School Teachers, 30 College Students and 20 other participants have benefited from the *Seminar* and about 40 artists participated at its valedictory function.

The Reader-in-Charge attended a Seminar on Status of Tribal Literature held in March 1981 sponsored by the Department of Sociology and Naga Scholars' Society at Mokokchung and delivered a Paper entitled *Naga Literature in Retrospect*.

He also participated at the Seminar on Indigenous Institutions of the Garos, the Khasis and the Jaintias held in December 1980 sponsored by the Deptt. of Education, Government of Meghalaya and presented a paper entitled *Arts and Crafts of the Khasi People*.

### Research

The Reader-in-Charge has worked on the second revised and enlarged edition of the *History and Culture of the Khasi People* published by the United Publishers, Gauhati for the benefit of Post-Graduate students.

The Centre is making efforts to corroborate new findings on Chinese sculpture and is planning to publish a separate report.

### Publications

- (A) *Sources of modern Assam history* published in the book entitled *Source of the History of India Vol. III* pp, 166-177 of the *Indian Historical Studies*, Calcutta, 1980. This was the outcome of the proceedings drawn by the 16th Annual Historical Conference held at Dibrugarh in 1978.
- (B) *Sources of the History of the Khasi-Jaintia* appeared in the *Sources of History Volume II* 1979 pp. 194-205 of the *Indian Historical Studies*, Calcutta.
- (C) *Social and Religious Reform Movements in the 19th and 20th centuries in Nagaland*, published in the *Social and Religious Reform Movements* of the Institute of Historical Studies Calcutta, pp. 425-438.

The Paper B and Paper C were the outcome of the 12th Annual Historical Conference held at NEHU, Shillong in October 1974 in which the writer himself was its local Secretary and the two papers were presented in that Conference.

Another work entitled *Biography of U Tirot Sing* has been approved by the Publications Division, Ministry of Information and Broadcasting for its publication. The work will be published soon.

### **Seminar on Art**

The most important Seminar organised by the Centre was on *Art* held on March 18-20. The Seminar, the first of its kind, was intended to draw resource persons and experts who could formulate realistic views on Art, its conception and role in educational orientation, forms and contents, Symbolic and Performing Art, Applied and Practical Art, Folk Art and Folklore, Commercial Arts and its potentialities, Decorative Art and Handicraft, Art education and other themes. The Seminar was a success, several experts having participated and presented papers on different topics such as Art education and Role of Art in educational reconstruction, Music and Dance, Art of writing, Art of public speaking, Forms of Tribal Art, Sericulture-Weaving, Handicraft, Dress and Ornament, Folk Art and Festivals, Art History and techniques of production. The experts represented different Universities and Institutions. About 22 papers were read. The Seminar made some important recommendations. Mr. E. W. Davies Jyrwa, Station Director of AIR inaugurated the Seminar and the valedictory address was delivered by Mrs. M. R. Mawlong, Registrar, NEHU. The closing ceremony of the Seminar was concluded with an entertainment programme and a film show on Khasi History.

### **Achievements of the Seminars**

The Seminar was held in pursuance to the previous courses, demonstrations, workshops and other extension programmes for identifying different areas with a view to evolve P. G. syllabus on Regional Art. An Editorial Body was constituted to bring out a publication of the proceedings of the Seminar and to examine its recommendations for follow-up action for the benefit of educational institutions. It was proposed that more Art programmes should be sponsored which have relevance on these issues.

### **Collaboration with other Agencies**

The Centre has received collaboration from the Khasi Cultural Society in exploring and utilising tunes, songs and lyrics both indigenous and modern. The collaboration with the Department of Education and State Council of Educational Research and Training has been very valuable. The Government of Meghalaya, from time to time, deputed school teachers to the Seminars and Workshops on Creative Art and Training.

The Reader-in-Charge has served for two terms in the Planning and Advisory Committee, State Council of Educational Research and Training as a special representative of NEHU.

## **Library System**

The library system of the North-Eastern Hill University consists of the Main Central Library, School libraries, Departmental libraries, Campus libraries and College libraries. In the year review some important changes were made.

The Library has introduced uniform system of issuing Books in the Campus, College and Departmental libraries. The procedure of issuing tickets to readers and students, and pass books for teachers as started at the Central Library was also introduced in the departmental libraries., campus libraries and college libraries.

With the exception of Mizoram, all departmental libraries at Bijni, Campus libraries of Nagaland and the library of the college of Agriculture, Medziphema have started cataloguing system for quick information and service.

### **Acquisition Section**

The acquisition section procures books for the entire library system of the University with an exception to the Agricultural College. Keeping in view of the increase of the number of students and research scholars during the year the section gave top priority to the procurement of sufficient number of copies of prescribed text books. Orders were also placed for the lists of urgent books from the campus and college libraries. This practice has started since 1978. This year about 42 books were received under this arrangement. The section takes notice that important books are added to the library.

### **Processing Section**

About 15,000 titles were processed and released during the year for the use of the readers. A list of new additions were arranged according to subjects for the convenience of the readers. The library has processed and released about 3500 Volumes of important collections in the year.

### **Circulation Section :**

In addition to the day-to-day services ; the following programmes were started during the year. The library has started initiation programme for the freshers and providing guidance to the new students. To cater to the need of the campus and college libraries the Central Library has circulated important books on an exchange basis.

During the year an increased interest was noticed from both students and research scholars in using the library reference section. On the whole a 30% increase in the use of this section was noted. The Library also provided data bank for the benefit of the research scholars.

### **Documentation Section**

In the year 1980-81 the documentation section brought out the following publications as a part of the information service :

- (a) Four Issues of the Latest Article Bulletin of 966 entries in all.
- (b) A Bibliography on Nagaland, Arunachal Pradesh and Mizoram of 1956 entries in collaboration with NERC/ICSSR. The same was circulated among the research scholars and institutions in this Region and outside.
- (c) A Bibliography of 206 bibliographies available in the University Library. which has been made available for research purpose.
- (d) A complete documentation of Executive Council resolutions from the First to the Twenty-second Meeting was completed.
- (e) Reprographic Services : Xeroxing facility provided by the section has been of immense help to the readers.

### **Bindery**

With the availability of binding materials, the section has started binding and repairing books and journals. During the year 150 books were rebound and 50 books were repaired.

### Seminars

Mr. J. C. Binwal, Librarian attended an All India Seminar on "Relevance of Library and information science education to the changing needs of the Country" at Banaras Hindu University from March 13 to 18, 1981.

Mr. J. C. Binwal, Miss I. Majaw, Mrs R. Mishra, Mr. L.P. Pathak and Mr. J. Majumdar attended a two-day seminar on "Library system, data collection and dissemination of information for North-Eastern Region" at Gauhati in March, 1981.

### Publications

1. Pathak, L. P. Maitra, Ashok and Mukherjee, Shekhar : "Status of women ; shifts in occupational participation 1961-71". Delhi Abhinav publications, 1980 (An ICSSR and JNU Study).

### Certificate Course in Library Science

The Certificate Course in Library Science which has been started in 1979 was again conducted in 1980 from June to September. The Course admitted 27 students, 15 of them being ST, out of which 19 appeared in the examination and 17 were declared successful.

### Staff Structure of the Library System

Designation	No. of Posts	SC/ST
Librarian	1	-
Asst. Librarians	4	1
Documentation Officer	1	-
Professional Assistant	7	2
Semi Prof. Assistant	10	5
Junior Library Asst.	17	15
Junior Stenographer.	1	1
LDA	6	4

Designation	No. of Posts	SC/ST
Cleaner	2	2
Peon	3	1
Library Attendant	8	7
Mender/Binder	1	1
Gate Keeper	3	2
Mech "B"	1	1
<b>Total :</b>	<b>65</b>	<b>42</b>

**\* Library Statistics**

Total No. of Books	95,563
Periodicals	931
Average No. of books issued per day.	360
No. of library members	1,300
Inter-library loan transactions	20

## **Campus Development : Engineering Cell**

The North-Eastern Hill University was established in the year 1973 by an Act of Parliament, to serve the needs of the entire hill areas of the North East comprising of the two state of Meghalaya and Nagaland and the Union Territories of Mizoram and Arunachal Pradesh. Since Shillong is the most developed town and a strong educational centre in the North-East, it was therefore chosen as the Headquarter of the University.

As a first step of the improvement and development of the proposed site for the permanent University Campus at Mawkyroh-Umshing, Shillong, the University had taken up the construction of 2.20 k.m. access road at an estimated cost of Rs. 6,62,680/-. The estimate and plan for provision of water supply to the permanent Campus of the North-Eastern Hill University at Mawkyroh-Umshing amounting to Rs. 19,79,500/- had been submitted to the University Grants Commission.

For providing and construction of electricity to the North-Eastern Hill University Campus at Mawkyroh-Umshing it is proposed to tap the power requirement from the existing 11-KV line of the Meghalaya State Electricity Board which is situated at the outskirts of the University Campus. In this connection, an estimate amounting to Rs. 1,74,400/- has been approved by the University Grants Commission.

The Master Plan of the permanent University Campus at Shillong includes the Academic Complex, Housing Complex, Sports Complex and Recreation Centre for the students. The building programme is proposed to be carried out in three phases. The first phase is envisaged for a student population of 2,000, the second phase for another 1,000 and the ultimate strength of 4,000 is expected in future.

### **Academic Complex**

1. School of Languages
2. School of Life Sciences
3. School of Social Sciences

4. School of Environmental Sciences
5. School of Education
6. School of Physical Sciences

### Housing Complex

1. Vice-Chancellor's residence	1 No.
2. Professors' quarters	18 Nos.
3. Readers' quarters	37 Nos.
4. Lecturers' quarters	60 Nos.
5. Married Students' quarters	24 Nos.
6. Type 'C' quarters	35 Nos.
7. Type 'B' quarters	39 Nos.
8. Type 'A.D' quarters	36 Nos.

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Total : 250 Nos.

The statement below shows the position of the project and schemes to be undertaken by the University as a first step of development of the Campus at Sillong after the plans and estimates are duly approved by the University Grants Commission.

1. Construction of hostel for 200 students	Rs. 67,65,348/-
2. 50 quarters for the teachers	Rs. 89,96,299/-
	<hr/>
Total :	Rs. 1,57,61,647/-
3. Provision of water supply	Rs. 19,79,500/-
4. Construction of ring road around the Housing Complex.	Rs. 24,87,500/-
5. Construction of ring road around the Academic Complex.	Rs. 18,32,600/-
	<hr/>
Total :	Rs. 2,20,21,274/-

### **Finance And Accounts Department**

Against the total provision of Rs. 2,16,000.00 under Revenue (Rs. 1,26,45,000.00) and Capital (Rs. 89,55,000.00) an expenditure of Rs. 1,57,58,055.00 was incurred during the year, 1980-81 under the following 2 broad heads :

REVENUE	Rs. 1,21,73,995.00
CAPITAL	Rs. 35,84,060.00

The figures of expenditure are provisional as the annual accounts prepared for the year are yet to be audited by the Accountant General Office.

The post of Finance Officer has only been filled up with effect from 12.12.80 prior to which the Department had to be managed by one Assistant Finance Officer.

No Internal Audit Section could be set up as yet, nor the Students Accounts could be separated from the Cash Section which are now managed by a Sr. Asstt. (Cash). Besides, no arrangements could be made to decentralise the financial activities relating to the outlying campuses and colleges which are still being managed from the Head-quarters. For the overall improvement it is, considered necessary that the Finance and Accounts Department be strengthened by the addition of 1 Dy. Finance Officer, 2 Asstt Finance Officers and 2 Superintendents.

Finance Department is very much handicapped due to non-release of grants according to the approved budget estimates. During the year under review only a sum of Rs. 2.00 lakhs was released as basic grant for 'Books and Journals' against the provision of Rs. 8.00 lakhs under Capital. No fund under Administrative machinery (Furniture and Equipment and 'Laboratory Equipment was released during the year. Besides, the fund available for running the Science Departments was found to be quite inadequate to meet their requirements.

## Department of Physical Training, Sports and Games.

During the year under review the Department organised the 8th Inter-Collegiate Sports Meet at Chumukedima, Dimapur in the State of Nagaland from December 16 to 18, 1980 in the beautiful Sports Complex of the Nagaland Police Training Centre which was made available by the Govt. of Nagaland for this purpose. The entire meet was conducted smoothly and successfully due to the full co-operation and assistance of the Govt. of Nagaland as well as the Commandant and officers of the Police Training Centre and the Jawans. Contingents from various colleges numbering nearly 800 boys and girls were accommodated in the Patkai Christian College and our thanks are due to the Acting Principal of the college for all his co-operation and assistance.

The following were declared the winners in the various items conducted :

<i>Athletics</i> :	Men	St. Anthony's College.
	Women	Lady Keane Girls' College
<i>Best Athletes</i> :	Men	Anand David John Union Christian College Barapani.
	Women	H. Lalhlantima, Pachhunga University College. Lhovili, Kohima Arts College.
<i>Basket Ball</i> :	Winners :	
	Men	St. Anthony's College
	Runners :	U. C. C. Barapani,
	Women Section :	
	Winners :	St. Mary's College.
	Runners :	Dimapur College.
<i>BADMINTON</i> :	Men Section :	
	Winners :	St. Anthony's College.
	Runners :	P. G. Classes.
	Women Section :	
	Winners :	Fazl Ali College
	Runners :	Lady Keane Girls' College

<b>CHESS :</b>	<b>Winners :</b>	<b>St. Anthony's College</b>
	<b>Runners :</b>	<b>Kohima Arts College.</b>
<b>FOOTBALL :</b>		
	<b>Winners :</b>	<b>Kohima Arts College</b>
	<b>Runners :</b>	<b>Pachhunga University College.</b>
<b>HOCKEY</b>	<b>Winners :</b>	<b>Aizawl College.</b>
	<b>Runners :</b>	<b>St. Anthony's College</b>
<b>TABLE TENNIS :</b>	<b>Men Section :</b>	
	<b>Winners :</b>	<b>St. Anthony's College</b>
	<b>Runners :</b>	<b>Shillong College</b>
	<b>Women Section :</b>	
	<b>Winners :</b>	<b>Science College, Kohima.</b>
	<b>Runners :</b>	<b>Lady Keane Girls' College.</b>
<b>VOLLEY BALL :</b>		
	<b>Winners :</b>	<b>Dimapur College</b>
	<b>Runners :</b>	<b>St. Anthony's College.</b>

Prior to this tournament the Zonal tournament were conducted at Dimapur for the Nagaland colleges at Aizawl for the Mizoram Colleges and in Shillong for the Meghalaya Colleges. Most of the colleges affiliated to this University participated in this tournament, The winners and runners as the case may be from this Zonal tournament participated in the Inter-Zonal tournament held at Dimapur. Due to the disturbed condition in Assam making travelling plans difficult, no team could be sent to participate in the Inter-University tournaments. No proper training or adequate training programmes could be drawn up due to lack of sports facilities such as play grounds, hostel accommodation etc. and until and unless the campus is ready we would still be handicapped in this sphere. NEHU is grateful to all the colleges for their co-operation.

## National Service Scheme (NSS)

The Aim of the NSS is "to promote national consciousness and a sense of social responsibility inculcation of discipline and dignity of labour and help students to develop total personality".

The activities under this scheme are broadly divided into two categories viz, Regular Activities and Special Camping Activities.

The Ministry of Education and Culture, Department of Education, Govt. of India in consultation with the State Govts. concerned allocated strength of NSS for the year under report. Statewise sanctioned strength of which and the actual enrolment of NSS Volunteers during the year are indicated below :

	Sanctioned Strength	Actual Enrolment
Meghalaya ..	2500	2325
Mizoram ..	1600	1516
Nagaland ..	1000	882
<hr/>		
Total :	5100	4723

Under the Special Camping Programme, the theme chosen by the Ministry of Education, Govt. of India for the year 1980-81 was "Youth for Rural Reconstruction". Some of the broad areas and activities which formed part of the programme "Youth for Rural Reconstruction" are enumerated below :

- a) Educational Programmes.
- b) Programmes for work during emergencies.
- c) Environment, Enrichment and Conservation.
- d) Health, Family Welfare and Nutrition Programmes.
- e) Production Oriented Programmes.
- f) Social Service Programmes.
- g) Programmes aimed at creating an awareness for improvement of the status of women.

During the period under review, the Colleges organised NSS Special Campings on the theme selected by the Ministry of Education mentioned above. Statewise figures of participation in the Special Camps are given below :

	Number of Campers			
	Students	Teachers	Non-studen's	Total
Meghalaya	1176	26	78	1280
Mizoram	835	19	164	1018
Nagaland*	50	6	—	56
<b>Total :</b>	<b>2061</b>	<b>51</b>	<b>242</b>	<b>2354</b>

\*The figures for Nagaland Colleges are as per the records available with the University.)

**Regular Activities :** Each NSS Unit of the colleges adopt a village/institution and each NSS volunteer is to spend 120 hours a year in improvement and development works for the adopted village/institution. During the year under report, 24 colleges under NEHU participated in the NSS, and Regular Activities have been carried on under the supervision of the NSS Programme Officers of the colleges. The projects taken up were as follows :

- 1) Organising First-Aid Training Courses for the NSS Volunteers,
- 2) Organising free medical check-ups and medical aids and free distribution of medicines,
- 3) Visits to hospitals,
- 4) Cleaning and improving areas surrounding colleges.
- 5) Propagation of family planning,
- 6) Tree plantation,
- 7) Organising Adult Education Centre,
- 8) Construction of public urinal/latrines.

In pursuance to the Appeal of the Prime Minister, the NSS Deptt. of the University organised a Special Tree Plantation Campaign by the NSS volunteers of the Shillong Colleges. Seven colleges viz. the Shillong College ; Sankardev College ; St. Mary's College ; Lady Keane Girls' College ; Synod College ; St. Edmund's College and St. Anthony's College with 100 boys and 100 girls participated in the campaign which was held from the July 14 to 16, 1980 along the Shillong-Gauhati Road covering a distance of about 30 Kms., from the 9th Km. point to the 30th Km. point, and also on the area of the North-Eastern Police Training Centre and around the Barapani Lake. Over 12,000 seedlings were planted on the average of 22 seedlings per student per day.

The seedlings and technical help were provided by the Forest Department, East Khasi Hills District. The seedlings consisted of six varieties : (1) Lega Stroemia Indica (2) Bougane villae (3) Jakranda species ; (4) Cherry Blossom ; (5) Acacia Auticuliflowers (6) Sali species or Weeping willow. The after care of the planted seedlings will be provided by the Forest Department, Govt. of Meghalaya.

Every morning the students left Shillong at 7 a.m. and started planting at 9 a.m. Break-fast, lunch and tea were provided in the sites. They worked till 3.30 p.m. and returned home.

On the last day the closing ceremony was held at the Lake View Cottage, Barapani, in which the Meghalaya Health Minister, Mr. D. D. Lapang was the Chief Guest. The function was presided over by Dr. S. C. Banwar, Pro Vice-Chancellor, NEHU.

On the whole, the campaign was very successful. The students showed great enthusiasm and worked inspite of the scorching sun and heavy rain. The Divisional Forest Officer and his staff worked hand in hand with the students for all the three days.

## Commerce Department

The course in the Master Degree of Commerce was started in the Nagaland Campus of the University in March 1981, The Department is the first of its kind in the North-Eastern Hill University.

### Analysis of Students' intake

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Course	Year	S.C.	S.T.	Others	Total
M. Com. - I	1981	-	8	3	11

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### List of Faculty members

1. Dr. B.K. Tandon, Reader and Head of the Department.
2. Mr. T. Vihieno, Lecturer.

## Examination Department

In 1980-81 the following Examinations were conducted by the University :

Pre-University (two-year) Arts/Science/Commerce

B. Sc. (two-year) (Pass-Honours).

B. Sc. (H. Sc.) Pass-Course.

B. Com (two-year) (Pass/Honours).

B. A. (two-year) (Pass/Honours).

B. Ed (One year).

L. L. B. (Preliminary/Intermediate/Final).

M. Sc.

M. A.

M. Ed.

The number of candidates who appeared at each of the Examinations and their results are furnished in the Statistics. All Examinations were held according to the Schedule notified by the University. There was no delay in the publication of the results in the Under-Graduate and Post-Graduate levels.

In spite of the abnormal situation in Assam, the University was able to provide Examination Centres in different places of Nagaland and Mizoram. Such a success speaks of the co-operation and support received from the State Governments of the three political units.

The enrolment of students at different levels during the year under review is furnished in the Statistics and the enrolment in the College of Agriculture Medziphema, Nagaland, are also included in the Statistics. The Semester Examinations of the College of Agriculture were conducted during the year.

The Randomisation of Roll Numbers in the Under-Graduate levels which was first adopted in 1976 for P. U. (Arts) only had been extended for the second time in P.U. (Science) and Degree Arts in 1981.

All Semester Examinations in the Post-Graduate Departments of Shillong/Kohima/Aizawl were also conducted.

The Third Convocation of the University was held on May, 26, 1981 and Degrees were awarded to the eligible candidate both for Graduates and Post-Graduates for the year 1979 and 1980. The University conferred 315 degrees in person and 97 in absentia. For the first time in the history of this University M. Phil. and Ph. D. Degrees were conferred to 7 (seven) and 11 (eleven) candidates respectively. The details of the statistics are given in the Appendix.

## College Development Council

The Sub-Committee of College Development Council appointed during 1979-80, completed its survey of the affiliated colleges in August, 1981.

The survey report was considered by the College Development Council and action was initiated for the introduction of Refresher Course, Question Banks, Faculty exchange programmes and the restructuring of courses.

### Short Reports of the affiliate Colleges

During 1980-81 there were 37 affiliated colleges including the following colleges which were granted provisional affiliation from 1980-81.

1. Nongstoin College, Meghalaya
2. Zunheboto College, Nagaland
3. Zirtiri Women's College, Mizoram
4. Hrangbana College, Mizoram.

### Meghalaya College

#### St. Mary's College

Courses / Subjects taught  
in 1980-81 session

P.U. Arts & Science, B.A. pass  
Honours : English, Khasi,  
Economics, History, Education,  
Pol. Science. Pass : Home  
Science, Philosophy  
B Sc : Botany, Zoology, Che-  
mistry, Physics, Maths.  
B Sc : Home Science : (All  
subjects)

Particulars of financial Assist-  
ance received from U.G.C. dur-  
ing the year 1980-81.

Rs 16,000 /- under Faculty  
Improvement Scheme.

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

Staff members have attended local Seminars of their respective subjects.

Miss. D. B. Kharkongor - (Education) is studying in U. K. under Colombo Plan.

### **Lady Keane Girls' College**

#### **Courses/Subjects taught in 1980-81 session**

P.U. Arts and Science,  
B.A. and B. Sc. Course upto the Honours standard.

**Subjects Taught :** English, Assamese, Bengali, Khasi, Nepali, Lushai, Hindi, Pol. Science, Economics, Logic, Sanskrit, Philosophy, History, Education, Mathematics, Physics, Chemistry, Botany, and Zoology.

#### **Numbers of teachers doing research for M. Phil/Ph.D.**

Some teachers have undertaken research projects for Ph.D.

#### **Any other achievement of the College during the session.**

**Academic Achievements :** One student secured 6th position in the Pre-University Science Final Examination of 1981. Two students secured 1st Class 1st and 2nd position respectively in the Honours subject of Sanskrit and another student secured 1st Class 1st position in the Honours subject of History at the Degree Examination 1981-82.

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

#### **Courses/Subjects taught in 1980-81**

**Pre-University Arts :** English, History, Economics, Pol. Science,

Logic, Latin, Mathematics, Statistics, M.I.L.  
(Mizo, Assamese, Bengali, Khasi, Hindi, Nepali,  
Alt. English, Khasi - 2nd Language.

- P.U. Science :** English, Mathematics, Physics, Chemistry,  
Biology, Botany, Zoology, Statistics, and M.I.L.
- P.U. Commerce:** English, Economics, Business Method, Com.  
Geography, Statistics, Com. Arithmetic, Book-  
Keeping and Accountancy, M. I. L.
- B.A. :** English, History, Economics, Pol. Science, Philo-  
sophy, Khasi-2nd language, Mathematics, M.I.L.
- Honours :** English, History, Economics, Pol. Science, Khasi,  
Mathematics.
- B.Sc :** English, Mathematics, Physics, Chemistry, Botany,  
Zoology, Statistics, Economics.
- Honours :** Mathematics, Physics, Chemistry, Botany,  
Zoology, Statistics, Economics.
- B. Com. :** English, Accountancy, Statistics, Com. Geography,  
Economics, Business Organisation, Com. Law,  
Banking Currency, and M.I.L.
- Honours :** Accountancy and Banking.

Conference/Seminars, etc. organised in the College or attended  
by the teachers outside the College.

- a) Indian History Congress - Bombay.
- b) North-East India Council for Social Science Research,  
Shillong.

Particulars of financial assistance received from the U.G.C.  
during the year 1980-81 :

a) Construction of Building	..	Rs. 20,000.00
b) Books and Journals	..	Rs. 20,000.00
c) Laboratories and Equipment	..	Rs. 40,000.00

Names of teachers doing research for M. Phil/Ph. D.

- |                   |               |
|-------------------|---------------|
| 1. P. S. Raja.    | 2. P. J. Das. |
| 3. N. Chakravorty | 4. D. Nandy.  |

**Extra Curricular Activities :** The College had undertaken a yearly extra-curricular activities which is drawn out by the teachers of the College. The College participated in all sports meet of NEHU and is a leading team in all events. Besides, Debate, Drama, Extempore Speeches, Elocution were also conducted. The College participated in competitions in these events as conducted by the local organisations like Rotary Club, Lions Club, Student Welfare Association, etc. It has also a regular Wing and the N.S.S. attached to NEHU.

## Synod College

### Course/Subjects taught in 1980-81

P.U. Arts : English, and M.I.L. (Khasi, Hindi, Nepali) Economics, Education, History, Pol. Science, and Second Languages (Khasi and Hindi).

B.A. Pass : Same as above.

B.A. Honours : English, Economics, Education, Pol. Science, and Khasi.

Particulars of Financial Assistance received from the U.G.C. for Books and Journals - Rs. 5,000/, and for Building construction - Rs. 60,000/-

### Number of teachers doing research for M. Phil/Ph.D.

Seven teachers have been working for their M. Phil/Ph.D. degrees.

### Any other achievements of the College during the 1980-81 :

1. N.S.S. Camping was organised at Mawlai-Mawdatbaki, Shillong from Sept. 27 to Oct. 4, 1980 where 174 volunteers of the College participated.
2. A student of the College participated in Blue Venture Expedition at Srinagar and in the Sailing Expedition of the Brahmaputra.
3. A team of 5 lecturers and 43 students undertook an excursion-cum-All India Study Tour.
4. One student of the College participated in the Trekking Expedition at Manali (Himachal Pradesh) in the month of June 1981, and successfully completed the expedition.

## Mendipathar College

### Courses/Subjects taught in 1980-81 :

P.U. Arts : English, M.I.L. (Garo, Assamese, Bengali)Alt. English, Economics, History, Pol. Science, and Logic.

**B.A. :** English, M.I.L. (Garo, Assamese, Bengali)/Alt. English, Economics, History. Pol. Science and Philosophy.

**Numbers of teachers doing research for M. Phil/Ph. D.**

Two teachers of the College have been working for their M.Phil/Ph.D degrees.

### **Jowai Government College**

#### **Courses/Subjects taught in 1980-81 :**

**P.U. Arts :** English, M.I.L./Alt. English, Pol. Science, Economics. Education, History, Logic, Com. Arithmetic, Book-Keeping and Mathematics.

**P.U. Science :** English, M.I.L./Alt. English, Physics, Chemistry, Biology and Mathematics

**B.A. :** English, MIL/Alt. English, Pol. Science, Economics, Education, History, Philosophy and Mathematics.

**Honours :** English, Pol. Science, Economics, and History

**Number of teachers doing research for M. Phil/Ph.D.**

Seven teachers of the College have been working for their M.Phil/Ph. D. degrees.

**Other Achievements of the College :** Development construction scheme of the College is under progress which are divided into different phases on priority basis. The College also takes keen interest in extra-curricular activities like sports and games sponsored by the University.

## **Tura Government College**

### **Course/Subjects taught in 1980-81 :**

- P. U. Arts :** English M.I.L. (Garo, Assamese, Bengali)  
Alt. English, Economics, Pol. Science History,  
Logic, Book-Keeping and Com-Arithmetic,  
Education, Geography and Mathemetias.
- P. U. Science :** English, M.I.L. (Garo, Assamese, Bengali)  
Alt. English, Physics, Chemistry, Biology,  
Mathematics and Geography.
- B. A. :** English, (Pass and Honours), M.I.L. (Garo,  
Assamese, Bengali), Alt. English, Economics,  
(Pass & Honours), Philosophy and Education.
- B. Sc :** English, Physics Chemistry, Botany, Zoology  
and Mathematics (Pass).

### **Conference/Seminars etc. organised in the College or attended by the teachers outside the College**

The College sponsored two Lecturers to attend the All India Summer Institute in Aquatic Biology at South-Gujrat University and the Seminar Organised by North-Eastern Cultural and Industrial Festival, Silchar, Assam.

### **Numbers of teachers doing Research for M. Phil/Ph. D.**

Ph. D. - 4

M. Phil - 3

## **Union Christian College**

### **Games and Sports**

**North-Eastern Hill University Sports :** The University Sports Meet was held in December 1980 at Dimapur. Athletes of the College won 21 medals. This is the first time in College history that the College team did so well.

**Gift and Financial Donations :** The College received gifts and donation from (a) Talent's Club, (b) The Scottish Presbyterian Overseas Mission (c) The Council of World Mission, (d) The Australia Baptist Mission (e) Board of International Ministry, (e) Shillong Ladies Work Party, and (f) Annual Contribution from Churches.

**Government Grants :** The Government of Meghalaya has sanctioned Rs 1,72,000/- for the College.

Improvement of Play Ground	Rs. 5,000.00/-	Book Bank	Rs. 10,000.00
Extra Curricular Activities	Rs. 3,000.00/-	Furniture & Equipment	Rs. 7,000.00
Students Welfare	Rs. 3,000.00/-	Library	Rs. 10,000.00
Excursion	Rs. 3,000.00/-		

## MIZORAM COLLEGE

### Saiha College

#### Course/Subjects taught

P. U. Arts : English, Alt. English, Mizo, Pol. Science, History, Economics, Education

B. A. ; English, Mizo, History, Economics, Pol Science and Education.

**Conference :** The Principal attended the Principal's Conference at Aizawl in August 1980.

Grants were received from Government of Mizoram, and donations from L.G.D.C. Chintuipui District and Lakhu District Council.

The College has a collection of 2000 volume of books.

**N.S.S. :** The College had 100 NSS Volunteers. It organised regular and special camping programmes.

**Other Activities :** 1000 trees were planted by the students in the College compound. Twenty four students went on Educa-

Educational Tour in February, 1981. The College started typing course for the Community

### **Pachhunga University College**

**Courses/Subjects taught :** English, Mizo (MIL), Economics Education, Pol. Science, History, Geography, Philosophy and Chemistry, Physics, Botany, Zoology and Mathematics, Honours courses were conducted in six Arts disciplines viz, English, Economics, Education, Pol. Science, History and Philosophy.

**Conference/Seminars, etc. organised in the College or attended by the teachers outside the College**

A Two-day Seminar on 'Social and Political change in Mizoram' was organised by the College and sponsored by I.C.S.S.R. in February 1981.

A Two-day Seminar on "Educational Reforms in Mizoram" was organised by the Department of Education, Mizoram in February, 1981. Shri S. Hom Choudhury of the Department of Education read a paper on 'Medium of Instruction'.

A Two-day Seminar on 'Mizo History' was organised by the College

**Number of teachers doing research for M. Phil/Ph. D.**

Six-teachers have been pursuing research work for M. Phil/Ph.D. degrees.

**Any other achievement of the College during the session**

One student of the College secured 9th rank in the P.U. Science Examination.

Mr. S. Hom Choudhury was awarded Ph. D. by the M. S. University of Baroda.

### **Zirtiti Womens' College**

**Courses/Subjects taught in 1980-81**

**First year P U (Arts) only :** English, M.I.L (Mizo and Alt.

English), Economics, History, Education, Home Science and Pol. Science.

### **Nagaland College**

#### **Tuensang College**

##### **Courses/Subjects taught in 1980-81**

PU (Arts) and B. A.: English, Alt. English, Pol. Science, History.

### **Patkai Christian College**

##### **Courses/Subjects were taught in 1980-81**

PU (Arts) and B.A. (Pass) : English, Alt. English, Education, Pol. Science, Economics, History, Logic and Philosophy.

### **Mountiyi College**

##### **Courses and Subjects taught in 1980-81**

#### **P.U. Arts and B. A.**

English, Alt. English, History, Pol. Science, Economics and Education.

The College NSS Unit organised Social Service Camp at Wokha village (Adopted village). As a part of the NSS camping programme, the NSS vounteers were cleaning public wells and streets of the Town.

One teacher is doing M. Phil.

### **Nagaland College of Education**

##### **Courses/Subjects taught 1980-81**

- i) B. Ed. Course as prescribed by the University.
- ii) Undergraduate training course for undergraduate teachers serving in Primary and Middle Schools.

**Conference/Seminars** were organised in the college for teachers.

**Orientation courses :** The following orientation courses were conducted in the Nagaland College of Education, Kohima in the year 1980.

### **Mathematics, Science**

**Teachers doing research :** One teacher has been doing Ph.D.

### **College Agriculture**

#### **Courses/Subjects taught in 1980-81**

- i) Agril. Botany
- ii) Agril. Zoology and Entomology
- iii) Agril. Chemistry and Soil Science
- iv) Agronomy
- v) Agril. Economy
- vi) Plant Pathology
- vii) Extension Education/English
- viii) Agril. Engg/Physics/Mathematics

Financial assistance from ICAR. Rs. 8.01 (Lakhs).

#### **Conferences /Seminars organised or attended**

1. Dr. D. P. Sharma attended a Conference on Physics of Disordered solids, at the Deptt. of Physics, North-Eastern Hill University, Shillong, from March 16-18, 1981.
2. Dr. M. V. Reddy attended a summer Institution on Soil Biology and Ecology organised by ICAR at the University of Agricultural Sciences, Hebbal Bangalore.
3. Mr. A. K. Kundu attended a seminar on "Library system Data collection and dissemination of information for North-Eastern region" held at State Central Library Gauhati on on March 23 and 24, 1981.
4. **Teachers' Research Programme for M. Phil/Ph.D.**

Ph. D.	5
M. Phil.	1

## **Research in progress**

The College has recently acquired 10 acres of land which is being developed as an agricultural farm for teaching and research. The research programme initiated by various disciplines during the session is as follows :

### **Deptt. of Agril. Botany**

Around 200 germplasm lines of paddy were collected from N.E. region and other universities in India. The lines have been shown in replicated trial to assess various economic traits and the trial is continuing.

### **Deptt. of Agril. Zoology and Entomology**

Role of the local earth worms and the soil arthropods in the fertility and aeration in the seed nature is being investigated.

Pesticide trials are being conducted at the experimental farm of the college for evaluation of different in-secticides against the major insect pest of rice and maize.

### **Deptt. of Agril. Chemistry and Soil Science**

A field experiment at the college research farm was laid out to evaluate the pattern of major nutrient utilisation by paddy at various growth stages under Nagaland Agroclimatic conditions. Plant samples of various stages are being collected and will be used to establish various aspects of nutrients utilization with respect to growth stage.

### **College Library**

The fund allocation of the library increased from Rs. 50,000/- to Rs. 1,00,000/- for books. During 1980-81 one hundred fifteen reference books and 922 general books were procured. In the last academic session the library has subscribed 88 journals, out of which 47 are foreign journals.

**Study Tours :** During the session 1980-81 excursion of various classes were conducted to Jorhat Ranga Pahar, Kohima, Dimapur and various farms of the Medziphema locality. Besides, an excursion to different important institutes of the country was organised for the third year students.

## Zunheboto College

### Courses/Subject taught in 1980-81

Pre-University : English, Alt. English, Economics, Pol. Science, History and Geography.

### Kohima College

Courses Subject taught in 1980-81 English, Alt. English, Pol. Science, Economics, History and Education,  
PU. (Arts). and B.A. Honours Economics and Pol. Science.

At present two Teachers are doing research for Ph.D.

### Dimapur College

#### Courses/Subject taught

P. U. (Arts) : English, Alt. Eng., MIL (Assamese, Bengali, Hindi) Economics, Education, Pol. Science and History.

P. U. (Com). : English, Alt. Eng. MIL : (Assamese, Bengali, Hindi) Economics, Book-Keeping, Com. Arithmetics, Bus Method, Com. Geography, Secretarial Practice and Salesmanship.

B. A. (Pass) : English, Alt. Eng. MIL: (Assamese, Bengali, Hindi), Economics, Pol. Science, Education, History.

B.Com. (Pass) : English, Alt. Eng. MIL (Assamese, Bengali, Hindi). Economics, Accountancy, Statistics, Com. Geog., Business Organisation, Com.Law,Advanced Accountancy, Auditing.

Library Books : There are 4735 books in the College Library.

N.C.C. : The college has Boys' N.C.C.



N.S.S. : 150 volunteers. Tree Plantation programme was undertaken by the NSS volunteers in Chumukhidima Village.

Development Projects : The college Governing Body has decided to construct new college in the new site. The college received Library Grant of Rs 50,000/- from the U.G.C.

## APPENDIX -1

### English Department

#### Lists of Faculty Members : Shillong Campus

- Professors :  1. Dr. D.P. Singh, Dean of the School and Head of the Department  
2. Dr. A. G. George
- Readers :  1. Dr. S. Homchaudhuri  
2. Dr. (Mrs) Anjana Desai  
3. Dr. Nurul Hasan  
4. Dr. M. Waseem  
5. Dr. E N. Lall  
*Dr R P Sharma*
- Lecturers : 1. Mr. P. S. Guptara (on leave)  
2. Miss Juanita War (on leave)  
3. Mr. Paulus Pimomo  
4. Dr. R. P. Sharma

#### Mizoram Campus

- Lecturers : 1. Mr. K. C. Baral  
2. Miss R. Ralte (temporary)  
3. Miss Lalsangdeli (temporary)  
4. Mrs. M. Zama (part-time)  
5. Mr. Thangvunga (part-time)

#### Nagaland Campus

- Lecturers : 1. Mr. Alok Joshi  
2. Mr. K. C. Joseph  
3. Miss N. Ganguly

M. Phil Students	Thesis Title	Supervisor.
1. Mrs. Alvareen Tham	Schopenhauer and Nietzsche on Tragedy : A comparative study.	Dr. D.P. Singh.
2. Mrs. Aroti Sengupta	D.H. Lawrence as a literary Critic	—Do—

3. Mr. Krishan Lal T.B. Hulme as a Literary critic —Do—

The following M. Phil students have completed their course work and are now working on their dissertations :

1. Geetam Baruah
2. Esther Syiem
3. John Joy
4. Gautam Ganguli
5. Talmizur Rahman

**Collaboration :**

The Department has been working in collaboration with the Regional Centre of the C.I.E.F.L., particularly in the field of Language studies.

## APPENDIX - 2

### Department of Economics

#### List of faculty Members

- Professor : 1. Dr. T. Mathew, Dean of the School and Head of the Department upto 21.10.80 (now on leave).
- Readers : 1. Dr. S. N. Guha Thakurta,  
2. Dr. K. Bez  
3. Dr. A. Banerji,
- Lecturers : 1. Mr. Tlanglawma,  
2. Mr. M. K. S. Nair  
3. Mr. E. D. Thomas,  
4. Mr. A. Patton (on leave)

#### Research Activities

1. Prof. T. Mathew and Mr. M. K. S. Nair, "Mode of Production and Production Relations in N.E. Region - A study with reference to Meghalaya". ICSSR Research Project. (in Progress).
2. Dr. S. N. Guha Thakurta, "Poverty, Unemployment and Development Policy in N. E. Region (Phase 1) ICSSR Research Project (in progress).
3. Mr. M.K.S. Nair, "Agrarian Relations and Transition in Meghalaya."
4. Mr. E. D. Thomas, "A Study on the Jhum Control in Meghalaya".

#### Guest Lectures

Names	Dates	Topics
1. Prof. N. Krishnaji, Centre for Studies in Social Sciences, Cal- cutta.	Oct. 13-16, '80.	Measuring of Agri- cultural Growth.

- |    |  |   |
|----|--|---|
| 2. | Prof. D. D. Narula, Oct. 13, '80<br>Director, ICSSR, Delhi.              | Neo - Colonization<br>and India.                                |
| 3. | Prof. Mrinal Miri, Sept. 26, '80<br>Department of Philo-<br>sophy, NEHU. | Language and Culture.   |
| 4. | Dr. M. N. Karna, March 17, '81.<br>Department of Socio-<br>logy, NEHU.   | Agrarian Structure<br>and Peasant strug-<br>gle in North Bihar. |

### Positioning of ex-students

1. K. J. Alphonse, I.A.S.
2. Ramfangzuava, I.E.S.
3. Anuradha Hazari, P.O. State Bank of India.

## APPENDIX - 3

### Department of History

#### List of faculty Members

- |              |  |
|--------------|--|
| Professors : | 1. Dr. V.V. Rao,<br>2. Dr. S.N. Rao,   |
| Readers :    | 1. Dr. J.B. Bhattacharjee, Head of the<br>Department,<br><br>2. Dr. I. Hussain,  |
| Lecturers :  | 1. Dr. Milton Sangma,<br>2. Dr. (Mrs) H. Giri,<br>3. Mr. P. Sudhir (on study leave),<br>4. Dr. Sandeep Chawla,<br>5. Miss Mignonette Momin, (on study)<br>6. Mr. D.R. Syiemlich,<br>8. Mr. K. Nakro. |

### Other Activities :

The Department is currently the Headquarters of the North-East India History Association which was formed with an intent to encourage and promote research in the history of the North-East India and in which the members of the faculty took initiative. The Department was also the host to the First Annual Session of the Association held in November 14 and 15, 1981.

The members of the faculty also collaborated with other institutions in organising symposia and seminars. Dr. J. B. Bhattacharjee was re-elected President of the NEICSSR and Dr. M. Sangma as a member of the Governing Body. In the Seminar organised by the NEICSSR in Sept. 1980 on the tribe of North East India, Dr. Bhattacharjee and Dr. Sangma presented papers. In a seminar organised by the Education Department of Meghalaya, Dr. Bhattacharjee, Dr. Sangma and Dr. (Mrs) H. Giri presented papers. In one of the Academic sessions Dr. Bhattacharjee presided over.

These Seminars and Conferences were devoted mainly to the historical problems of this region. The proceedings of the History Association has been published and those of the NEICSSR and of the Government of Meghalaya are in the process of being published. The papers presented in the seminars and the publication are being used for teaching and research in the Department.

### Positioning of some ex-students

1. Mr. A. Chaudhury : St. Edmund's College, Shillong.
2. Mr. Lalrinawma : Hrangvana College, Aizawl.
3. Miss J. Dutta : Women's College, Silchar,
4. Mrs. P. Goswami : Lady Keane College, Shillong,
5. Mr. W. S. Lyngdoh : Mairang College, Meghalaya,
6. Mr. S. Thiek : Nongstoin College, Nongstoin,
7. Mrs. U. Hazarika : Steel India Ltd, Calcutta.

**Students who have registered for Ph. D.**

- |                   |                         |
|-------------------|-------------------------|
| 1. Mr. T. Ao,     | 3. Mr. D. R. Syiemlich, |
| 2. Miss L. Jamir, | 4. Mrs. P. Goswami,     |
|                   | 5. Miss S. Sikdar.      |

**Students who have registered for M. Phil.**

- |                       |                           |
|-----------------------|---------------------------|
| 1. Mr. A. Khiangte,   | 5. Mrs. N. Hazarika,      |
| 2. Mr. K. L. Pradhan, | 6. Mr. H. S. Lalsangpuia, |
| 3. Mr. M. Akang,      | 7. Mr. W. R. Kharlukhi,   |
| 4. Mr. S. Nag         | 8. Mr. K. Bialua.         |

**Self-Assessment of the Department**

The University takes pride in putting on record the achievements of the Department in the last six years of its existence in promoting the objectives of the University as enshrined in the Act. In disseminating knowledge of the historical processes in India and of the world in general and of the North-Eastern Region in particular.

**APPENDIX - 4****Department of Philosophy****(a) Faculty**

Name	Designation
Mrinal Miri	: Professor
Sujata Miri	: Reader and Head
Harsh Narain	: Reader
N. Malla	: Reader
R. V. Vyas	: Lecturer
Jagat Pal	: Lecturer
S. C. Daniel	: Lecturer

**(b) Placement of Students**

Some of the old students who have completed M.A. Programme are placed at present as follows :

1. Samuel Roy Lyngdem : Lecturer, U. C. C., Barapani.
  2. Anthony Pothmilong : Auditor, Meghalaya Government.
  3. Lalthansanga Sailo : Research Scholar
  4. Bishon Buam : Research Scholar
  5. Querang Z. Lungalang : Research Scholar
  6. Mahesh Islary : Lecturer,
- Others**
7. Mahua Sirkar : Lecturer, Tura Govt. College, Tura.
  8. Debjani Tarafdar : Lecturer, Khowai Govt. College, Tripura.
  9. Shila Sinha : Lecturer Kailasahar Govt College, Tripura.

Prof. Pranab Sen visited the Department in connexion with a Post-Graduate Board meeting in the month of June, 1981 and gave two lectures in the Department. Prof. Rajindra Prasad also visited the Department in connexion with a Post-Graduate Board meeting in the month of June, 1980 and delivered lectures in the Department.

The following students of the department were invited to a seminar on the 'Problem and Prospects : the North-East' at Chandigarh by the Centre for Research in Rural and Industrial Development :

1. Miss Shephali Panigrahi — Research Scholar
2. Mr. S. M. Packai — Research Scholar

Teachers of the Department have also been attending seminars, conference etc. (refer list of publications).

Most of the students who have done well this year in their examinations are either doing research in the department or are already employed.

## APPENDIX - 5

### Department of Political Science

#### List of Faculty Members

Professor	:	Dr. C. N. Bhalerao.
Readers	:	Dr. B. Pakem. Dr. R. L. Walli. Dr. S. Gabriel. Dr. S. H. Ahmed.
Lecturers	:	Mr. M. Bhaskaran Nair. Mrs. R. Borgohain. Mr. Sridhar Balan. Mr. Sudhir Jadhvir Jacob George. Mr. L. S. Gassah. Mr. P. S. Lorin.

#### Positioning of the ex-students

Deviha Rajbangshi (F)	..	Passed M. A. in 1977. Attached to the Department as a Ph. D. student.
Saidun Nessa (F)	..	Passed M. A. in 1979. Attached to the Department as M. Phil. Student.

## APPENDIX 6

### Department of Sociology

#### List of faculty members

- Readers : 1. Dr. A.C. Sinha, Head of the Department.  
2. Dr. M. N. Karna
- Lecturers : 1. Dr. C. N. Nunthara,  
2. Dr. V. Xaxa,  
3. Mr. N. Kumar,  
4. Mr. I. L. Imchen

During the year the following visitors and experts visited the department and delivered lectures to the students :

- |  |   |
|--|---|
| 1. Prof. L. P. Vidyarthi,<br>Ranchi University.              | 2. Prof. B.K. Roy Burman,<br>Viswabharati, Santiniketan.                    |
| 3. Dr. D. Doley,<br>Dibrugarh University                     | 4. Prof S. C. Sinha,<br>Centre for studies in Social<br>Sciences, Calcutta. |
| 5. Prof. S. N. Ratha,<br>University of Sambalpur,<br>Orissa. | 6. Prof. M. S. Gore,<br>Tata Institute of Social Sciences,<br>Bombay.       |

## APPENDIX 7

### Department of Geography

#### List of Faculty Members

- Reader : (1) Dr. R. K. Rai, Head of the Department
- Lecturers : (1) Dr. R. Gopalakrishnan.  
(2) Mr. A. C. Mohapatra.  
(3) Mr. Ali Ahmed.  
(4) Mr. S. S. A. Jafri  
(5) Mr. P. G. Momin. (temporary).

During the last four years 10 students got their M. Phil. degrees in Geography. Two M. Phil dissertations were submitted in December, 1980. One Ph.D. thesis was completed while 8 more are in various stages of completion.

### **Seminar during 1980-81**

A number of students' and faculty seminars were organised by the Department. As a regular feature on every fortnight, (Saturday) - research scholars and teachers presented papers in the Department seminar.

Dr. R. Gopalakrishnan has contributed a paper "Spatial Pattern of Insurgency in Nagaland and Mizoram" to the Second Annual Conference NAGI, Tirupati 1981.

### **Research Projects**

The ICSSR Regional Centre Shillong has sanctioned a grant of Rs. 4000/- to a research project entitled "Pattern of population change in North-East Region between 1967-71". Dr. R.K. Rai is the principal investigator and N. P. Goel the co-investigator of project.

### **Miscellaneous**

Dr. S. S. A. Jafri, Lecturer in the Department was admitted to the Degree of Doctor of Philosophy, Jawaharlal Nehru University, New Delhi in December, 1980.

Dr. Gopalakrishnan was selected for NCERT Workshop on 10+2 system in Hyderabad held in March 26 to April 4, 1981.

## **APPENDIX - 8**

### **Department of Education**

#### **List of Faculty Members**

##### **SHILLONG**

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

##### **KOHIMA**

1. Reader : Dr. K. K. Sharma
2. Lecturers : 1. Mr. J. C. Soni  
2. Dr. S. Borthakur

##### **AIZAWL**

1. Reader : Dr. (Miss) M. S. Padma
2. Lecturers : 1. Dr. M. S. Sudhir Kumar  
2. Mr. P.K. Gupta.

#### **Seminars and Conferences organised in the Department**

1. The Department at Shillong organised a Workshop, with participation from local College, to work out the U.G. Syllabus in Education. It is being followed up with more representations from Colleges in Mizoram and Nagaland.
2. A twenty-One Day Summer Institute on Indian Philosophy of Education, sponsored by the U.G.C., was organised at the Department at Kohima from June 29 to July 19, 1981 with Dr. K. K. Sharma as the Director.

**Research Activities of the Department :**

The dissertation is one of the requirements for all the post-graduate programmes. The abstracts of one set of dissertations have been published under the title "NEHU Studies in Education". The two research projects on Micro-teaching and Teaching Competence sponsored by the NCERT were completed and the reports have been published.

**Other Activities :**

Dr. C. L. Anand is engaged in compiling a survey of Research in Education in Meghalaya in collaboration with Dr. P. K. Ganguli, DERS, NEHU.

He is also preparing a Scale to Measure Attitude to Teaching Profession in collaboration with Dr. P. K. Ganguli, DERS, NEHU.

**Miscellaneous (Collaboration with other institutions) :**

1. Dr. C. L. Anand was nominated by the Union Ministry of Education on the Educational Research and Innovation Committee for a period of three years.
2. A Thesis work guided by Dr. C. L. Anand at the University of Calicut was accepted for the award of Ph.D. Degree.

**Self Assessment :**

The Department of Educational Research and Studies has been working in collaboration with the various State Agencies to improve teaching-learning process and to effect the quality of education. Departmental Research Programmes are being tuned to tackle some of the problems of the Region.

APPENDIX - 9

Department of Zoology

List of Faculty Members

Name	Designation	Specialisation
1. Professor Dr. R. George Michael (on Sabbatical leave to Zoology Deptt., Indiana University Bloomington Indiana, U.S.A.)		- Animal Ecology, Freshwater Biology, Taxonomy.
2. Dr. M.K. Khare.	Professor & Head	- Developmental Biology of Animal, Entomology
3. Dr. K. Chatterjee.	Reader	- Animal Cytogenetics.
4. Dr. A. Raghu Varman	„	- Animal Physiology.
5. Dr J R.B. Alfred	„	- Biosystematics and Animal Ecology.
6. Dr. B. K. Ratha	Lecturer	- Animal Biochemistry
7. Dr. S. A. K. Nasar	„	- Fish and Fisheries Limnology Fish Ecology
8. Dr. B. K. Sharma	„	- Systematics and Limnology.
9. Dr. (Mrs.) V. Tandon	„	- Parasitology.
10. Mr. H.C. Sharatchandra	„	- Wildlife Ecology and behaviour.

Visiting Professors/Scientists

Following Professors/Scientists visited the department during 1980-81.

- (1) Prof. R. P. Choudhury, Head, Department of Life Sciences, Dibrugarh University, Dibrugarh.
- (2) Prof. Tikaram Sarma, Zoology Deptt., BHU, Varanasi.
- (3) Prof. P. N. Srivastava, National Fellow, Jawaharlal Nehru University, New Delhi.
- (4) Dr. Santosh Singh, Head, Entomology Deptt., St. John's College, Agra.

- (5) Prof. M. S. Kanungo, Head, Zoology Deptt., BHU, Varanasi.
- (6) Prof. S. R. V. Roa, Zoology Deptt, Delhi University, Delhi.
- (7) Dr. N. C. Dutta, Zoology Deptt, Calcutta University, Calcutta.

Prof. P. N. Srivastava delivered 4 lectures on different aspects of Radiation Biology and Dr. Santosh Singh 2 lectures on High altitude entomology of Western Himalayas (March, 1981).

### **Participation in Seminar/Symposia/Conferences**

a) Prof. R. George Michael and Prof. M. K. Khare participated in the Golden Jubilee session of the National Academy of Sciences at Allahabad and presented papers in its sessions and a symposium on Experimental Zoology (October, 1980). They also participated in a symposium on Development withouts distruction organised by Forest Department Government of Meghalaya (Sept, 1980).

b) Dr. J. R. B. Alfred participated and presented paper in symposium Development without Destruction (Forest Department, Government of Meghalaya, Sept., 1980).

c) Dr. B. K. Ratha participated and presented papers in National Symposium on General and Comparative Endocrinology held in Delhi (November, 1980) ; second Congress of the Federation of Asian and oceanian Biochemists, and Golden Jubilee annual meeting of the Society of Biological Chemists (India) at Bangalore (December, 1980) and contributed invited article on Focal theme symposium on Impact of Pollution on animals and plants at the 68th. Session of Indian Science Congress at Varanasi (January, 1981).

d) Dr. S. A. K. Nasar presented papers at "Workshop on the ~~promotion~~ of limnology in developing Countries and also presented a paper, with S. Kaur, at the International Congress of limnology (SIL) at Kyoto, Japan (August 1980).

e) Dr. (Mrs). V. Tandon submitted paper on SEM. observation on certain trematodes at the 13th Annual Conference of Electron Microscope Society of India (50 yrs. of Electron Microscopy) at Indian Institute of Science, Bangalore, India.

f) Mr. H. C. Sharatchandra participated in symposia on "Development without Destruction" (Forest Deptt., Govt. of Meghalaya, September 1980), Implications of Hydr-electric projects in Ultra Distt., Kannada at Sirsi N. K. Karnataka, (Dec, 1980), Consultancy programme on Energy in Third world Countries at Madras, Tamilnadu (March 1981) and Socio-economic aspects of Soil Conservation with special reference to North East India at Tura, Meghalaya (June 1981).

There were 27 students on rolls for Ph. D. programmes during 1980-81. The following are the details of Ph. D. students admitted in the year.

Name	Designation		Research Topic	Guide.
1. Mr. P.K. Das	SRF, NEHU.	17.5.76	Studies on hydrobiology & fish Production of a tectonic lake in Garo hills	Dr. R.G. Michael.
2. Mr. B. Bhattacharya.	TF, UGC	2.8.76	Ecology and Biology of Cladocerans of altitudinal lakes and ponds of Shillong	Dr. R. G. Michael.
3. Mr. M. P. Thapa.	JRF, UGC	26.9.76	Biological productivity of Aquatic Ecos system in N.-E. India.	Dr. J.R.B. Alfred.

- |                          |                   |                   |  |                    |
|--------------------------|-------------------|-------------------|--|--------------------|
| 4. Ms. S. Choudhury.     | SRF,<br>CSIR      | 1.11.76           | Establishment of neural differentiation pattern in the prospective encephalic area of the chick <b>Gallus somesticus</b> embryo.   | Dr. M. K. Khare.   |
| 5. Mr. S. N. Ramanujam.  | JRF,<br>CSIR      | 18.11.76          | Effect of poisonous plankton on freshwater fish.   | Dr. B. K. Ratha.   |
| 6. Mr. D. R. Thangkhiew. | JRF, UGC,<br>NEC. | 1.11.76<br>1.3.77 | Study of high mortality fish seeds and the retarded growth of fish in water bodies to evolve remedial measure for minimising fish seed mortality and for promoting normal growth of fish in water bodies of Meghalaya. | Dr. R. G. Michael. |
| 7. Mr. Abhik Gupta.      | SRF,<br>NEHU.     | 18.12.76          | Taxonomy and Biology of Ephemeroptera in and around Shillong.  | Dr. R. G. Michael. |
| 8. Mr. S. Dey.           | SRF,<br>NEHU.     | 18.2.76           | Studies on physiology of arthropod vision.   | Dr. A. R. Varman.  |

- |     |                            |               |          |   |                       |
|-----|----------------------------|---------------|----------|---|-----------------------|
| 9.  | Mr. A. Majhi               | SRF,<br>NEHU. | 18.12.76 | Studies on bi-<br>ology & Cyto-<br>genetics of<br>some fishes of<br>N.E. India.                         | Dr. K.<br>Chatterjee. |
| 10. | Mr. A. K.<br>Sahu.         | SRF,<br>NEHU. | 18.12.76 | Taxonomy<br>and ecology of<br>certain anuran<br>tadpoles of N.<br>E. India.                             | Dr. M. K.<br>Khare.   |
| 11. | Mr. P. K.<br>Prabhakaran.  | JRF,<br>NEHU. | 1.6.79.  | Evolutionary<br>aspects of hae-<br>moglobin of<br>certain air<br>breathing fishes.                      | Dr. R. L.<br>Tluanga. |
| 12. | Mr. Ajay<br>Kumar.         | TF,<br>UGC.   | 13.4.77  | Studies on cer-<br>tain aspects of<br>ecology and<br>development<br>of <b>Rana eva-<br/>nophlyetic.</b> | Dr. M.K.<br>Khare.    |
| 13. | Mr. A. Par-<br>thasarathi. | JRF,<br>ICAR. | 5.6.77   | Zoogeography<br>of fishes of<br>North-Eastern<br>India.   | Dr. J.R.B.<br>Alfred. |
| 14. | Mr. P. K.<br>Vatsulaya.    | JRF,<br>DST.  | 26.10.77 | Ecological im-<br>plication of<br>Jhum Cultiva-<br>tion in the sub-<br>tropical forest<br>strand.       | Dr. J.R.B.<br>Alfred. |
| 15. | Mr. A. K. Z.<br>Ahmed.     | TF,<br>UGC.   | 1.11.77  | Ecology and<br>Biology of Aq-<br>uatic Insects<br>with special<br>reference to<br>fish ponds.           | Dr. R.G.<br>Micheal   |
| 16. | Ms. M.<br>Bhattacharya.    | JRF,<br>NEHU. | 21.11.77 | Biology of<br>Chironmidae<br>of N. E. India   | Dr. J.R.B.<br>Alfred  |

- |     |   |            |          |   |                    |
|-----|---|------------|----------|---|--------------------|
| 17. | Mr. N. J. Dhar.                                   | JRF, NEHU. | 23.11.77 | Cytogenetical studies of some freshwater air breathing fishes.  | Dr. K. Chatterjee  |
| 18. | Ms. S. Kaur                                       | JRF, NEHU. | 20.12.77 | Feeding habits and spawning behaviour of certain air breathing fishes with reference to ecological factors governing them.                                      | Dr. S.A.K. Nasar.  |
| 19. | Mr. A. Bhagawoty.                                 | JRF, CSIR  | 18.12.77 | Physiological and Biochemical adaptations to high altitude and low temperature in the developmental stages of <i>cypri-nuscarpio</i> .                          | Dr. B. K. Ratha.   |
| 20. | Mr. S. Dzuvichu.                                  | JRF, NEC.  | 20.7.77  | Investigations on Rearing and mortality of fish seeds and the retarded growth of fish in water bodies of Nagaland and experiments on manipulation of Nutrients. | Dr. J.R.B. Alfred. |
| 21. | Mr. S.N. Datta (Part-time from Shillong College). | —          | —        | Cytotaxonomy of spiders from the North Eastern India.   | Dr. K. Chattarjee  |

22.	Mrs. Sati Choudhury. (On leave from Tura College).	—	1.11.80	Reproductive Biology of certain anurans.	Dr. M.K. Khare.
23.	Mrs. Catherine Roderiques (Parttime, from St. Mary's College).	—	12.11.80	Heminth parasite spectrum of amphibian hosts of Meghalaya.	Dr.(Mrs.) V.Tandon
24	Mr. Meren Ao (Part time from Science College Kohima).	—	1.12.80	Ecology and Zoogeography of fishes of Nagaland.	Dr. J.R.B. Alfred.
25.	Mr. Drupad Choudhury.	JRF, CSIR.	31.1.81	Insect Consumer Plant relationship.	Dr. J.R.B. Alfred.
26.	Mr. Imti. Longkumer.	JRF, CSIR.	31.1.81	Ecology of Earth-worms.	Dr. J.R.B. Alfred.
27.	Mrs. Neerja Mishra.	JRF CSIR.	31.1.81	Studies on the Nervous system and Neuroendocrine phenomena in some trematods parasites.	Dr.(Mrs.) V. Tandon

In addition to these research schemes, many students have been working on various problems with faculty members in the area of their specialization with the help of individual grants or fellowships from CSIR, UGC and NEHU. Some teachers deputed from affiliated Colleges are also working for the Ph.D. degree.

The ongoing work of various research groups headed by different faculty members or independently by them can be summarized as follows :

1. Limnology of lotic and lentic water bodies in relation to fisheries development (Leaders Prof. R. George Michael Dr. J.R.B. Alfred, Dr. S.A.K. Nasar).
2. Biology and Ecology of commonly available frog species and their larvae (Leader Dr. M.K. Khare).
3. Experimental studies in chick embryo (Leader Dr. M.K. Khare).
4. Cytogenetical studies on selected vertebrate and invertebrate species (Leader Dr. K. Chatterjee).
5. Survey and population dynamics of insect pests and arthropods and other soil fauna of different regions (Leader Dr. J.R.B. Alfred).
6. Ecophysiology of indigenous prawn species (Leader Dr. A. Raghu Varman).
7. Effect of poisonous plant on fresh water fish (Leader Dr. B. K. Ratha)
8. Analysis of physiological and biochemical parameters particularly the qualitative and quantitative pattern of several enzymes in relation to ontogenic and environmental response in fishes and amphibious (Leader, Dr. B. K. Ratha).
9. Biology of different indigenous fish species particularly Mahseers and researches leading to the culturable possibility with methods which can be easily practised by farmers in villages (Leader Dr. S.A.K. Nasar).
10. Zooplankton and their relationship to economy fresh water systems (Dr. B. K. Sharma).
11. Helminth parasites of vertebrate hosts with special reference to live stock and other animals having any food value and their neuro endocrine aspects (Leader, Dr. Mrs. V. Tandon).
12. Wild life Ecology and animal behaviour (Mr. H. C. Sharatchandra).

### Research

The following research schemes have been operative in the Department and have been making satisfactory progress :

(i) The survey and exploratory research on the progress of Balphakram sanctuary-under a scheme granted by Forest Research Institute, Dehra-Dun.

(ii) Fish and Fisheries in relation to Hydrobiological condition of the aquatic biotipes of North-Eastern States sanctioned by ICAR.

(iii) Ecology and Biology of Commercially important fish Fauna of the Hill regions in the North-East States of India-financed by ICAR.

Another scheme on "Studies on the Ecology and Culturable possibility of Mahseers" sponsored by Hindustan Liver Research Foundation has been started in the Department this year.

## APPENDIX - X

### Department of Botany

#### List of faculty Members

		Specialization
1. Dr. P.S. Ramakrishnan	Professor	Ecology
2. Dr. R. R. Mishra	Professor and Head	Microbial Ecology
3. Dr. R. S. Tripathi	Reader	Population Ecology
4. Dr. A.Singh (Expired Jan. '81).	Reader	Cytogenetics
5. Dr. Y. S. Chauhan	Reader	Experimental Mor- phology
6. Dr. R. R. Rao	Reader	Population Ecology/ Plant Taxonomy.
7. Dr. P. Tandon	Lecturer	Plant Physiology
8. Dr. B. K. Dutta	Lecturer	Plant Pathology
9. Dr. P. M. Reddy	Lecturer	Algology
10. Dr. M. N. V. Prasad	Lecturer	Paleobotany.

PhD. Thesis Submitted/ :  
Approved

The following students submitted their Ph.D. theses to the North-Eastern Hill University, Shillong.

Name of the Student	Title	Supervisor
Mr. G.D. Sharma	Ecological studies of mycorrhiza of pine ( <b>Pinus Kesiya</b> Royle Ex Gordon)	Prof. R.R. Mishra.
Mr. B. K. Tiwari	Studies on microflora of freshwater lake : An ecological approach.	Prof. R. R. Mishra.
Mr. Jasbir Singh	Studies on structural and functional aspects of two sub-tropical humid forest types of Meghalaya.	Prof. P. S. Ramakrishnan..
Mr. O. P. Toky	Studies on the ecological impact of shifting agriculture ( <b>Jhum</b> ) on forested ecosystem.	Prof. P. S. Ramakrishnan.
Mr. A. K. Das	Studies on growth pattern, primary productivity and nutrient dynamics of Khasi pine <b>Pinus kosiya</b> Royle Ex Gordon	Prof. P. S. Ramakrishnan.
Mr. S. P. S. Kushwaha.	Studies on different jhum (slash and burn agriculture) patterns and population dynamics of a few weedy species	Prof. P. S. Ramakrishnan. and Dr. R. S. Tripathi.
Mr. A. S. Yadav.	Studies on population dynamics of <b>Eupatorium odoratum</b> , <b>E. adenophorum</b> and <b>E. riparium</b> .	Dr. R. S. Tripathi.
Mr. S. Myrthong	A study on the monocot flora of Meghalaya.	Dr. R. R. Rao.

## APPENDIX - XI

### Department of Physics

#### List of Faculty Members

Professors	Specialisation
Dr. K. K. Gupta, Ph. D. (Bombay).	Many body problem, Nuclear Structure.
Dr. A. L. Verma, Ph. D. (IIT Kanpur) Head of the Department.	Laser Physics and Resonance Fluorescence and Raman scatter- ing, solid state Physics.
<b>Readers</b>	
Dr. Y. S. T. Rao, Ph. D. (Maryland).	Many-body Problem, Nuclear Structure.
Dr. P. Shukla, Ph. D. (Temple)	Condensed matter Theory and Phase transitions.
<b>Lecturers</b>	
Dr. R. Singh, Ph. D. (IIT Kanpur).	Experimental Nuclear Physics (Nuclear Reactions).
Dr. S. Singh, Ph. D. (Pittsburgh)	Condensed Matter Theory and Phase Transitions.
Dr. Y. S. Jain, Ph. D. (IIT Kanpur).	Spectroscopy (IR and Raman Scattering), Solid State Physics.
Dr. D. T. Khathing, Ph.D. (Calcutta).	Neutron Activation Analysis.
Dr. P. N. Pandita Ph. D. (Kashmir).	Particle Physics (Unified theories)

#### Other Information :

The Department of Physics organised a national conference on "Physics of Disordered Solids" during March 16-18, 1981. This Conference was the first in this field organised in the North-Eastern Region. There were approximately 50 participants in the conference including 25 outside parti-

participants who came from all over the country. The local organising committee for the conference consisted of Dr. P. Shukla (Convener), Dr. D. T. Khathing, and Dr. S. Singh.

The Department of Science and Technology has sanctioned Rs. 10.64 lakhs for the project entitled "Laser Excited Resonance Raman Scattering and Fluorescence studies on Molecular and Condensed Systems" under the supervision of Prof. A. L. Verma and Dr. Y. S. Jain.

Dr. P. Shukla visited T. I. F. R., Bombay, from Jan.-5 to Feb. 5, 1981. He gave talks at T. I. F. R., and B.A.R.C. during the visit.

Dr. R. Singh's work on the U. G. C. project on the "Study of Fluctuations in Heavy Ion Reactions" is in progress on  $12c+28si$  and  $16_0+28si$  elastic and inelastic scattering excitation functions. The detailed paper on "Study of Elastic and Inelastic Scattering of  $14c+14c$ " is under preparation. The analysis of the  $16_0+14c$  data is nearing completion (at Munich).

Dr. Surjit Singh visited T. I. F. R., Bombay from Jan. 5 to Feb. 5, 1981 and gave a seminar there.

Dr. Y. S. Jain worked on the problems related to the technology for villages e.g. (i) the design-development of an interim system helpful in running modern machines useful in the field of agriculture and cottage industry by employing cattle force and (ii) design-development of water lifting pump which may efficiently lift water at low r.p.m.

Dr. Y. S. Jain also guided a project (for encouragement of science in this region) on lasers which got first prize in the science talent competition (1980) organised by the Meghalaya Science Society and also won a running trophy for the department.

Dr. D. T. Khathing helped in teaching and running programmes of remedial courses for tribal students studying science. Miss Phlisdamon Nongkynrih, M. Phil scholar, went for one

month practical training cum field work in X-ray fluorescence technique at Nuclear Physics Division, B.A.R.C. Bombay in Jan. 1981. She analysed the mineral content of coal and ore samples collected from N. E. Region.

Prof. G. Govil visited the department in June, 1981, and gave a series of talks on magnetic resonance and its applications.

### **Research Equipments**

Five-watts argon-ion laser, dye laser and accessories, Ortec lifetime measurement set up, HP-180C, 18GHz sampling oscilloscope, intrinsic germanium detector in X-ray range, vacuum coating unit, ND60 multichannel analyser, PAR-124A lock in amplifier, two He-Ne lasers, high vacuum diffusion and mechanical pumps etc. The Laser Raman instruments and accessories are expected to arrive soon.

In addition to the above, several other instruments e.g. NMR, Liquid Nitrogen plant (to come soon) spectrometers etc. are available in the Central Instrumentation Facility of the University

## **APPENDIX -XII**

### **Department of Chemistry**

#### **List of Faculty Members and their specialization**

- |                            |                                    |   |
|----------------------------|------------------------------------|---|
| 1. Prof. H. Junjappa.      | Professor & Dean of the School     | Synthetic Organic Chemistry, Molecular rearrangements and Reactive Intermediates.   |
| 2. Prof. T.S.B. Narasaraju | Professor & Head of the Department | Studies on : (i) Isomorphous Substitutions ; (ii) Solid Solution Formation among Isomorphous Crystals their characterization and Dissolution Phenomena. |

- |                        |          |   |
|------------------------|----------|---|
| 3. Dr. J. Subramaniam  | Reader   | (i) Theoretical Calculations of Metalations on Metalloporphyrins using SCF Perturbation Thoery (ii) ESR and Eletrochemical studies on Metalloporphyrins.  |
| 4. Dr.(Mrs) H. Ila     | ,,       | Synthetic and Mechanistic Organic Chemistry.  |
| 5. Dr. S.N. Bhat       | ,,       | Studies on (i) Charge-transfer Complexes of Biologically Important Systems and (ii) Electrical and optical Properties of Organic Semi-Conductors.   |
| 6. Dr. M. K. Chaudhuri | ,,       | (i) Synthesis of Fluore and other Complexes of Transition Metals in their Lower Oxidation States ; (ii) Analysis of coal in the North-Eastern Region ; (iii) Mass Spectrometric Studies on Organometallics.   |
| 7. Dr. M. P. Mahajan   | ,,       | (i) Generation and study of Reactions of 1, 3- Dipolar Species (ii) Transformations in Heterocyclic Systems.  |
| 8. Dr. M. K. Mahanti.  | Lecturer | (i) Kinetics of Electron Transfer Reactions, with particular emphasis on the Oxidation of organic Substrates by one Electron Oxidants ; (ii) Molecular orbital Calculations on Organic Molecules with emphasis on Correlation between Structure and Reactivity. |
| 9. Dr. R. K. Poddar    | ,,       | (i) Transition metal Complexes with tertiary phosphenes and arsines (ii) Catalytic studies using transition metal complexes.  |
| 10. Dr. K. Ismail      | ,,       | Theoretical and Experimental Studies of the Transport properties of Liquids and Electrolytic Systems.   |

- |                       |    |   |
|-----------------------|----|---|
| 11. Dr. P.N. Pandey   | ,, | (i) Dehalogenation of Aromatic Halides ; (ii) Oxidative Generation of Carbocations.   |
| 12. Dr. K. K. Dwivedi | ,, | (i) Solid State Nuclear Track Detectors ; (ii) Environmental Pollution in Air, Water, using X-ray Fluorescence Technique and proton induced X-Ray Emission. |
| 13. Dr. O. K. Medhi.  | ,, | Mossbauer Effect, Magnetic Resonance and Magnetic Susceptibility of Metal ions in Organic and Biological Environments.                                      |

#### Placement of Students

- |                         |         |   |
|-------------------------|---------|---|
| 1. Mr. R.H. Duncan(ST)  | A(5.06) | I. I. T., Madras                                    |
| 2. Mr. Z. Hiese (ST)    | A(4.68) | JRF. Department of Chemistry NEHU, Shillong.        |
| 3. Mr. Gurdeep Singh    | A(4.55) | JRF. Chemistry Department NEHU, Shillong.           |
| 4. Mr. L. Warjeet Singh | A(4.53) | JRF. Chemistry Department, NEHU, Shillong.          |
| 5. Mr. P. Chakravorty   | B(4.45) | Teacher, B. K. Institution Belonia (South Tripura). |
| 6. Mrs. V. Momin (ST)   | B(4.32) | Lecturer, Tura Govt. College, Tura.                 |
| 7. Mr. S.N. Singh       | B(4.27) |   |
| 8. Mr. M.L. Marwein(ST) | B(4.05) | JRF. Chemistry Department NEHU, Shillong.           |

## Research Activity

(i) Being influenced by the consideration that a balanced development of a University Department of Chemistry is possible only when the research and teaching programmes go hand in hand, considerable emphasis has been laid on the establishment of research facilities in this department right from its inception. These efforts culminated in the inauguration of a total of eight research laboratories of the department by the Vice-Chancellor, Dr. A. K. Dhan on 5.3 1980. In addition to the availability of excellent working conditions in the laboratories, there exists a wide range of sophisticated equipments housed in a new Central Instrumentation Building constructed adjacent to the Department. The establishment of such an Instrumentation Centre is of extensive importance to the North-Eastern Region that it can play a very significant role in the exploration of the avenues of utility of the rich store of natural resources available here.

## Names of Research Students and their Supervisors

Name	Supervisor
1. Aggarwal, Miss. V.	Dr. (Mrs). H. Ila.
2. Appa Rao, Mr. S.	Prof. H. Junjappa.
3. Bhattacharjee, Mr. A.K.	Dr. M. K. Mahanti.
4. Bhattacharjee, Miss. B.	Dr. S. N. Bhat.
5. Bhattacharjee, Mr. K.K.	Dr. J. Subrahmaniam.
6. Bhattacharjee, Miss. M.	Dr. M. K. Mahanti
7. Bhattacharjee, Mr. M.N.	Dr. M. K. Chaudhuri
8. Bhattacharya, Mr. S.	Prof. B. Junjappa.
9. Chakravarty, Mr. B.	Dr. J. Subrahmaniam.
10. Dasgupta, Dr. H. S.	Dr. M. K. Chaudhuri.
11. Deb Roy, Mr. A.	Dr. M. P. Mahajan.
12. Ghosh Mr. S. K.	Dr. M. K. Chaudhuri.
13. Gupta, Mr. S. K.	Prof. T. S. B. Narasaraju.
14. Lemtur, Mr. A.	Dr. J. Subrahmaniam

- |                             |                           |
|-----------------------------|---------------------------|
| 15. Mahiuddin, Mr. S.       | Dr. K. Ismail.            |
| 16. Myrboh, Mr. B.          | Prof. H. Junjappa.        |
| 17. Purkayastha, Mr. M. L.  | Dr. P. N. Pandey.         |
| 18. Rahman, Mr. A.          | Dr. (Mrs). H. Ila.        |
| 19. Rao, Mr. P.V.R.         | Prof T. S. B. Narasaraju. |
| 20. Roy, Mr. N.             | Dr. M. K. Chaudhuri.      |
| 21. Sarma, Mr. K. P.        | Dr. R. K. Poddar.         |
| 22. Shedbalkar, Mr. V.      | Dr. S. N. Bhat.           |
| 23. Varshney, Dr. (Mrs). A. | Dr. S. N. Bhat.           |
| 24. Vishvakarma, Mr. J. N.  | Dr. (Mrs). H. Ila.        |

### **Inter-departmental Collaboration and Academic Achievements**

Dr. M. K. Chaudhuri of Chemistry Department is collaborating with Dr. D. T. Kathing of Physics Department and also with Prof A. J. Edwards of Birmingham University (U.K.).

Dr. K. K. Dwivedi of Chemistry Department is collaborating with Department of Physics, I. I. T. Kanpur. Dr. O. K. Medhi of Chemistry Department is collaborating with Physics Department of Gauhati University, with Chemistry Department of I. I. T. Kanpur and has collaborated with Chemical Physics group of TIFR, Bombay from December 1980 to February, 1981.

### **Miscellaneous Activities**

(i) Dr. S. N. Bhat was invited to participate in the workshop on "Low cost Equipment and Experiments in Chemical Education" organised by UNESCO, COSTED ICSU at I.I.T. Madras.

The following is a list of a few of the sophisticated instruments acquired and being installed in the Department :

1. Perkin-Elmer-Model 297 Infrared-Spectrophotometer.
2. Beckann Model UV-26 Ultraviolet and Visible Spectrophotometer.
3. Varian Model EM-390, 90 MH Nuclear Magnetic Resonance Spectrophotometer.

4. Pacific Photometric Electroanalyzer.
5. Mettler Microanalytical Calances.
6. Coleman's C, H, and N Microanalytical Instruments.
7. Parr Instruments' Pressure Hydrogenators, Reactants and Autoclaves.

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 broadbased training with a unified perspective of the discipline of Chemistry. This is achieved by a judicious selection of a course structure which constitutes a compulsory Pre-Ph.D Programme, intended to equip the research students with a sound theoretical background to supplement the experimental investigations to be undertaken. In addition to the students who had their post-graduation from this Department those from other Universities as well as a few Lecturers from the local 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 colleges affiliated to the University contributing to an over covering of the deficiencies of the students of the North-Eastern Region.

### *APPENDIX - XIII*

#### **Department of Mathematics**

##### **List of Faculty Members**

Readers	Specialisation
1. Dr. P. Jothilingam (on leave)	Algebra and Number theory.
2. Dr. S. S. Khare (Head).	Algebraic and Differential topology
3. Dr. Vijay Kumar	Numerical Analysis and Com- puter Programming.

## Lecturers

- |    |                                    |                          |
|----|------------------------------------|--------------------------|
| 4. | Mr. B. K. Dev Sarma.               | Fluid Mechanics.         |
| 5. | Mr. S. L. Marbaniang<br>(on leave) | (Operation Research)     |
| 6. | Dr. P. K. Saikia.                  | Algebraic Number theory. |
| 7. | Dr. M. B. Rege                     | Ring Theory.             |
| 8. | Mr. S. Ramasubramanian             | Probability Theory.      |

**Other Academic Activities of Faculty Members****Mr. B. K. Dev Sarma**

- 1) Worked as the Resource person to write a "Guide Books for High/Higher Secondary School Teachers of Meghalaya" under State Council of Educational Research and Training, Meghalaya, Shillong and had completed the work.
- 2) Was appointed a Resource person to deliver a series of lectures to the "Inservice Training Course for High School Teachers of Assam" held at Barpeta Road under Board of Secondary Education, Assam, Gauhati during the period June 22, 1981 to July 6, 1981.
- 3) Was appointed as an Expert in the Committee for writing "Instructional materials in Mathematics for H.S.L.C. candidates (Private)" under Board of Secondary Education, Assam.
- 4) Was invited to read two papers in the "Seminars on Assamese Scientific Literature" held under Assam Science Society at Gauhati in September, 1980

**Dr. M. B. Rege**

Worked on the Remedial Programme for Tribal students organised by the University.

**Positioning of ex-students**

The following table shows the positioning of some students who passed out in June 1781.

Name	Cate- gory	Placement
1. Miss Falguni Paul Choudhury	GEN. Junior Research Fellow, NEHU	
2. Mr. Balbahadur Thapa	GEN. College teacher in North Bengal.	

### List of Affiliated Colleges

Name of College	Principal	Estd :
<b>Meghalaya</b>		
1. St. Edmund's College, Shillong.	Br. M. G. Shannon	1924
2. St. Anthony's College, Shillong.	Fr. A. Joseph	1934
3. Lady Keane Girls' College, Shillong.	Miss A. Marbanian	1935
4. St. Mary's College, Shillong.	Mother. Mary Anne	1937
5. Union Christian College, Barapani.	S. K. Austin John	1952
6. Shillong College, Shillong	D. S. Rawat	1956
7. Tura Govt. College, Tura	K. M. Momin	1958
8. Sankardev College, Shillong	R. N. Upadhyay	1962
9. Post-Graduate Training College.	J. E. Shullai	1964
10. Shillong Law College, Shillong.	L. Sharma	1964
11. Synod College, Shillong	E. M. Sohklet	1965
12. Jowai Govt. College, Jowai	Ramesh Kharpor	1967
13. Mendipathar College, Mendipathar.	R. Rabha (Offg.)	1971
14. Seng Khasi College, Shillong.	B. Tymthai	1973
15. Tura Law College, Tura.	L. Momin	1975
16. Nongstoin College, Nong- stoin.	W. S. Bonney	1978
<b>Mizoram</b>		
1. Lunglei College, Lunglei.	Lalawia	1964
2. Champhai College, Cham- phai.	Lalthangfala Sailo	1971
3. Serchhip College, Serchhip	H. D. Rosanga	1973
4. Mizoram Institute of Edu- cation, Aizawl.	H. Thanglawra	1975.

5. Aizawl College Aizawl	P. Lianhleia	1975
6. Kolasib College, Kolasib	T. B. C. Liandala	1978
7. Saiha College, Saiha	C. Zohupa	1978
8. Pachhunga University College, Aizawl.	Darchhawna (Offg.)	1958
9. Zirtiri Women's College, Aizawl.	Lalzeki Sailo	1980
10. Hrangbana College, Aizawl,	Zatlaia	1980

### Nagaland

1. Fazl Ali College, Mokok-mI. chung.	I. Yanger Ao	1959
2. Science College, Kohima	Kiremwati Ao	1961
3. Dimapur College, Dimapur,	Imsen Ao	1966
4. Kohima College, Kohima	H. Gupta	1967
5. Tuensang College, Tuensang.	S. N. Singh	1973
6. Patkai Christian College, Dimapur.	Tuisem A. Shishak	1974
7. Mount Tiyi College.	K. C. Murrey	1974
8. Nagaland College of Education, Kohima.	Dr. P. Duari	1975
9. Kohima Law College Kohima.	K. N. Tankha	1978
10. College of Agriculture, Medziphema.	D. N. Upadhyaya (Reader i/c).	1978
11. Zunhebeto College, Zunhebdo.	K. Zhimomi	1980

+ Arts & Science Colleges

= Arts College only

% Science College only

— University College

× Commerce College

\*\* Law College

\* Teachers' Training College  
@ Junior College

## AFFILIATIONS DURING 1980-81

Name of College	Courses Affiliated During 1980-81	Nature of Affiliation	E.C.Resolution No. and Date	
1	2	3	4	5
1. Zirtiri Womens, College.	Hist., Pl. Sc., MIL (Mizo), Edn., Eco., Eng., Home-Sc.	Provisional affiliation upto P.U. level w.e.f. 1980-81.	EC : 25 : 81 15 : (m) (i)-(ii) dated 27.6.81.	
2. Hrangbana College	Eng., Mizo, Alt. Eng., Eco., Pol. Sc., Hist., Edn.	Provisional affiliation upto P.U. level w.e.f. 1980-81.	EC : 25 : 81 : 15 : (m) (i)-(ii) Dated 27.6.81.	
3. Nongstoin College	Eng., Eco., Hist., Edn., MIL (Kh), Pol. Sc. Kh. (Second Language).	Provisional affiliation upto P.U. level w.e.f. 1980-81.	EC : 25 : 81 : 15 : (m) (i)-(ii) dated 27.6.81.	
4. Zunheboto College	Pol. Sc. Eng., Eco., Hist., Geog. Alt. Eng.	Provisional affiliation upto P.U. level w.e.f. 1980-81.	EC : 25 : 81 : 15 : (m) (i)-(ii) dated 27.6.81.	
5. Shillong College	Honours in Khasi	Introduction of in the subject w.e.f. 1980-81.	EC : 23 : 80 : 43 : (iii) dated 10.10.80.	
6. Lady Keane Girls' College.	Honours in Khasi	Introduction of Hons. in the subject w. e. f. 1980-81.	EC : 23 : 80 : 43 (iii) dated 10.10.80.	

1	2	3	4	5
7. Lunglei Govt. College.	Education and Geography in Degree.	Introduction of the subjects in degree level w.e.f. 1980-81.	EC : 23 : 80 : 43 : (iii) dated 10.10.80 and EC : 22 : 80 : 03 : (b) (i) dated 15.3.80.	
8. Kohima Science College	Statistics in B.Sc. (Pass) Course.	Introduction of the subject in B.Sc. (Pass) Course w.e.f. 1980-81	EC : 23 : 80 : 43 : (iii) dated 10.10.80.	

**STRENGTH OF STUDENTS/TEACHERS IN THE AFFILIATED COLLEGES : 1980-81**  
**NO. OF STUDENTS ENROLLED**

Name of Colleges	P.U. Arts		P.U. Science		P.U. Commerce		B.A.		B.Sc		B.Com.		Total No. of Students
	1Yr.	2Yr.	1Yr.	2Yr.	1Yr.	2Yr.	1Yr.	2Yr.	1Yr.	2Yr.	1Yr.	2Yr.	
1. St. Edmund's	239	108	177	147	..	..	131	147	102	66	..	..	1017
2. St. Anthony's	223	260	319	316	142	142	176	171	119	180	84	114	2276
3. Lady Keane Girls	370	348	92	89	..	..	189	254	67	45	..	..	1454
4. St. Mary's	205	189	78	56	..	..	110	94	16	12	..	..	760
5. Union Christian	76	72	..	..	..	..	47	31	..	..	..	..	226
6. Shillong	108	186	56	70	230	244	63	84	19	35	106	79	1280
7. Tura Govt.	350	275	60	60	..	..	96	55	8	9	..	..	913
8. Sankardev	78	141	85	216	..	..	72	127	..	..	..	..	719
9. Synod	332	523	..	..	..	..	242	239	..	..	..	..	1336
10. Jowai Govt.	111	164	32	48	..	..	74	47	..	..	..	..	476
11. Mendipathar	68	87	..	..	..	..	15	16	..	..	..	..	186
12. Seng Khasi	59	137	..	..	..	..	42	72	..	..	..	..	310
13. Nongstoin	14	17	..	..	..	..	..	..	..	..	..	..	31
14. Lunglei Govt.	184	107	35	28	..	..	45	21	..	..	..	..	420
15. Champhai	86	95	..	..	..	..	44	21	..	..	..	..	246
16. Serchhip	53	51	..	..	..	..	22	14	..	..	..	..	140
17. Aizawl	679	619	..	..	..	..	386	304	..	..	..	..	1988
18. Kolasib	45	66	..	..	..	..	35	..	..	..	..	..	146



**RESULT OF DEGREE EXAMINATION : HONOURS SUBJECTS  
1981-82**

Name of Colleges	Honours Subjects	No. of Candidates appeared	Pass %
1. St. Edmund's	1. English	10	50
	2. Pol. Science	4	50
	3. Economics	15	33. 9
	4. History	10	80
	5. Physics	20	65
	6. Chemistry	13	23. 04
	7. Botany	11	54. 5
2. Pachhunga Univer- sity.	1. English	4	75
	2. Pol. Science	8	100
	3. Economics	8	50
	4. History	7	85. 71
	5. Education	3	66. 2
	6. Philosophy	8	52. 4
3. Tura Govt.	1. English	3	..
	2. Pol. Science	3	..
	3. Economics	3	66
4. Kohima	1. Pol. Science	11	45. 45
	2. Economics	12	..
5. Jowai Govt.	1. Economics	1	..
6. Synod	1. English	1	100
	2. Pol. Science	1	100
	3. Economics	5	60
	4. Education	1	100
	5. Khasi	10	50
7. St. Anthony's	1. English	4	100
	2. Pol. Science	12	25
	3. Economics	33	24. 2
	4. History	12	50
	5. Mathematics	5	20
	6. Physics	17	52 9
	7. Chemistry	14	57. 1
	8. Botany	7	57. 1
	9. Zoology	26	46. 1
	10. Khasi	1	100
	11. Statistics	2	50

Sl. No.	Colleges	Honours Subjects	No. of Candidates appeared.	Pass %
8.	Lady Keane Girls'	1. English	9	44. 4
		2. Pol. Science	6	11. 1
		3. Economics	16	31. 2
		4. History	6	83. 3
		5. Education	2	50
		6. Philosophy	5	100
		7. Physics	11	45. 5
		8. Chemistry	3	66. 6
		9. Botany	6	33. 3
		10. Zoology	10	60
		11. Sanskrit	4	50
		12. Bengali	4	50
9.	Aizawl	1. Pol. Science	12	75
		2. Economics	8	12.50
10.	Lunglei Govt.	1. Pol. Science	2	100
		2. Economics	1	..
11.	Shillong	1. Botany	5	80
		2. Zoology	5	80
		3. Accountancy	20	56
12.	St. Mary's	1. English	9	100
		2. Pol. Science	6	83
		3. Economics	12	75 (1 SP)
		4. History	7	100
		5. Education	7	85. 7
		6. Khasi	5	60
13.	Sankardev	1. Pol. Science	4	50
		2. Economics	3	
14.	Champhai	1. Pol. Science	5	10
		2. History	2	100
15.	Union Christian	1. English	2	100
		2. History	7	71
6.	Kohima Science	1. Chemistry	2	..
		2. Botany	9	66. 6
		3. Zoology	4	75
		4. Geology	6	75

Note : S-P. Simple Pass.

## STRENGTH OF TEACHING STAFF

Name of College	Eng.	Mizo	Ass	Beng	Kh.	Hindi	Nep.	Garó	Sans	P. Sc.	Hist	Eco
1. St. Edmund's	6	-	1	1	2	1	1	-	-	4	3	4
2. St. Anthony's	4	1	2	1	3	1	1	-	-	4	4	6
3. Lady Keane Girls'	5	1	1	3	2	1	1	-	3	4	4	4
4. St. Mary's	5	1	2	1	2	-	-	-	-	5	5	4
5. Union Christian	3	1	1	-	1	-	-	-	-	2	3	2
6. Shillong	5	1	2	1	2	1	1	-	1	3	3	4
7. Tura Govt.	5	-	1	2	-	-	-	3	-	4	3	4
8. Sankardev	5	-	2	2	2	-	-	-	-	4	3	4
9. Post Graduate Training	-	-	-	-	-	-	-	-	-	-	-	-
10. Synod	5	-	-	-	4	1	-	-	-	4	2	3
11. Jowai Govt.	5	-	-	-	2	-	-	-	-	4	4	4
12. Mendipathar	2	-	1	-	-	-	-	1	-	2	2	2
13. Seng Khasi	2	-	-	-	3	-	-	-	-	2	2	2
14. Nongstoin	1	-	-	-	1	-	-	-	-	2	1	1
15. Shillong Law	-	-	-	-	-	-	-	-	-	-	-	-
Total :	53	5	14	11	24	5	4	4	4	44	39	44

## SUBJECT-WISE AND (COLLEGE-WISE) :

Edn	Geog	Phil	H. Sc.	Chem	Phy	Zoo	Bot	Math	Bio	Stat	Com	Law	B. Ed.	Total
-	3	-	-	7	9	4	4	5	-	-	-	-	-	55
-	-	2	-	5	6	7	7	6	-	2	4	-	-	66
3	-	4	-	6	7	6	6	4	-	-	-	-	-	66
5	1	1	4	2	2	2	2	1	-	-	-	-	-	45
-	3	2	-	-	-	-	-	-	-	-	-	-	-	18
2	-	3	-	3	4	3	3	4	-	-	4	-	-	50
2	1	4	-	3	3	4	3	2	-	-	-	-	-	44
4	-	2	-	-	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	-	-	-	7	y
3	-	-	-	-	-	-	-	-	-	-	-	-	-	22
2	-	2	-	1	1	1	1	2	1	-	1	-	3	34
-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
2	-	1	-	-	-	-	-	1	-	-	-	-	-	15
1	-	-	-	-	-	-	-	-	-	-	-	-	-	7
-	-	-	-	-	-	-	-	-	-	-	-	8	-	8
24	8	21	4	27	32	27	26	25	1	2	9	8	10	475

## STRENGTH OF TEACHING STAFF SUBJECT -WISE AND COLLEGE -WISE :

Name of College	Eng	P. Sc.	Hist	Eco	Edn	Geog	Phil	Chem	Phy	Zoo	Bot	Maths	Stat	Law	Agri	Anthro	Geol	B. Ed.	Total
16. Fazl Ali	8	6	6	7	5	3	6	-	-	-	-	2	-	-	-	-	-	-	38
17. Kohima Science	4	-	-	-	-	2	-	8	4	5	6	4	1	-	-	2	5	-	41
18. Dimapur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19. Kohima Arts	4	5	5	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	20
20. Tuensang	2	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
21. Patkai Christian	3	2	2	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	12
22. Mount Tiwi	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	9
23. Nagaland College of Education.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
24. College of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	18
25. Zunheboto	1	1	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	6
26. Kohima Law	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	6
Total :	24	16	17	17	12	7	7	8	4	5	6	6	1	6	18	2	5	10	166

## STRENGTH OF TEACHING STAFF SUBJECT-WISE AND COLLEGE -WISE :

Name of College	Eng.	Mizo	P. Sc	Hist	Eco	Edn	Geog	Phil	H. Sc	Chem	Phy	Zoo	Bot	Math	Bio	B. Ed	Total
27. Lunglei	3	2	3	2	2	1	2	-	-	-	1	1	-	1	1	-	19
28. Champhai	2	2	3	3	2	1	1	-	-	-	-	-	-	-	-	-	14
29. Serchhip	1	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	9
30. Mizoram Institute of Education	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
31. Aizawl	6	4	5	4	6	2	-	-	-	-	-	-	-	-	-	-	27
32. Kolasib	2	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	7
33. Saiha	1	1	2	2	1	1	-	-	-	-	-	-	-	-	-	-	8
34. Pachhunga University	4	3	4	4	5	3	3	4	-	2	4	2	2	1	1	-	42
35. Zirtiri Women's	1	1	1	1	1	1	-	-	1	-	-	-	-	-	-	-	7
36. Hrianbana	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	9
<b>Total :</b>	<b>22</b>	<b>18</b>	<b>23</b>	<b>21</b>	<b>21</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>146</b>

**TEACHERS-STUDENTS ENROLMENT AND RESULTS OF LAW COLLEGES IN 1980-81 :**

Name of the College	No. of Teachers	Pre-liminary	Intermediate	Final	Total no of Candidates appeared.	Pass %
1. Shillong Law College	8	240	165	111	33	42.4%
2. Kohima Law College	6	57	28	12	..	..
3. Tura Law College						

*No information available.*

## RESULTS OF THE UNIVERSITY EXAMINATION : 1980-81.

	P.U. Arts		P.U. Sc.		P.U. Com-		B.A.		B.Sc.		B.Com.	
	N.C. P.C.C.	P.C.C.	N.C. P.C.C.	P.C.C.	N.C. P.C.C.	P.C.C.	N.C. P.C.C.	P.C.C.	N.C. P.C.C.	P.C.C.	N.C. P.C.C.	P.C.C.
1. St Edmund's	106	74.5	147	93.87	-	-	124	70.1	63	61.7	-	-
2. St Anthony's	252	57.59	285	32.15	108	24.2	145	56.16	118	44.4	77	29.67
3. Lady Keane Girls'	272	50.4	73	54.8	-	-	181	56.9	45	53	-	-
4. St. Mary's	169	90	50	98	-	-	899	91	6	83	-	-
5. Union Christian	64	48.4	-	-	-	-	28	61	-	-	-	-
6. Shillong	170	42	65	60	222	57.2	80	21	332	52	86	50
7. Tura Govt.	70	25	33	55	55	-	19	34	6	66	-	-
8. Sankardev	30	45	170	38	-	-	110	47	-	-	-	-
9. Jowai Govt.	144	32	35	31.8	-	-	52	36.5	-	-	-	-
10. Synod	318	41.5	-	-	-	-	104	38.4	-	-	-	-
11. Mendipathar	40	10	-	-	-	-	13	31	-	-	-	-
12. Seng Khasi	46	37.5	-	-	-	-	41	34.15	-	-	-	-
13. Fazl Ali	-	-	-	-	-	-	-	-	-	-	-	-
14. Kohima Science	-	-	150	42	-	-	-	-	44	56.8	-	-
15. Dimapur	119	29.3	-	-	95	23.1	38	18.5	-	-	34	17.6
16. Kohima Arts	251	43.82	-	-	-	-	123	39.02	-	-	-	-
17. Tuensang	18	27.7	-	-	-	-	5	40	-	-	-	-
18. Patkai Christian	105	83	-	-	-	-	-	83	-	-	-	-
19. Mount Tiwi	22	55	-	-	-	-	5	40	-	-	-	-

Name of Colleges	P.U. Arts		P.U. Sc		P.U.Com.		B.A.		B.Sc.		B.Com	
	N.C.	P.C.C.	N.C.	P.C.C.	N.C.	P.C.C.	N.C.	P.C.C.	N.C.	P.C.C.	N.C.	P.C.C.
20. Lunglei Govt.	61	49.8	17	41.1	-	-	12	66.6	-	-	-	-
21. Champhai	78	53.84	-	-	-	-	17	64.7	-	-	-	-
22. Serchhip	57	77	-	-	-	-	13	61.53	-	-	-	-
23. Aizawl	497	18.31	-	-	-	-	163	56.45	-	-	-	-
24. Kolasib	37	29.72	-	-	-	-	163	56.45	-	-	-	-
25. Saiha	27	37.33	-	-	-	-	-	-	-	-	-	-
26. Pachhunga Univer- sity	269	55.24	75	48.57	-	-	69	70.1	10	60	-	-

NOTE : N.C. — Number of Candidates.  
P.C.C. — Pass Percentage of Candidates.

**TEACHERS' TRAINING COLLEGES : ENROLMENT/RESULT. 1980-81.**

Name of the Colleges	Students enrolled	Candidates appeared	Pass	Percentage
1. St. Mary's	57	57		91%
2. Post-Graduate Training	151	141		75%
3. Mizoram Institute of Education	69	67		70.1%
4. Nagaland College of Education	70	59		83%

## Result Analysis of

Name of the Colleges	Exams.	Regular		Appeared		SC/OBC		Total		
		Genl. M	F	SE M	F	M	F	M	F	
St. Anthony's	PU(A)	135	-	158		1		294	x	
St. Edmunds'	..	20	-	86		-	-	106	x	
St. Mary's	..		80		89	-	-	x	169	
S. Khasi	..			33	13	-	-	33	13	
Lady Keane	..		36		165		-	x	272	
Synod	..	22	8	198	224			220	232	
Sankardev	..	50	20	31	3			81	23	
Tura Govt.	..	52	36	77	63	1		130	99	
Jowai Govt.	..	2	2	53	61			55	63	
Mendipathar	..	9	1	27	14			36	15	
U C C	..			30	25	1	1	31	26	
Shillong	..	63	15	47	45			110	60	
MEGHALAYA	Total :	PU(A)	353	268	740	702	3	2	1096	972
College	Exam.	M	F	M	F	M	F	M	F	
Mt. Tiyi	(P.U) Arts	1	- 1	23	- 6			24	- 7	
Tuensang	..	2	- 1	20	- 5	..	..	22	- 6	
Kohima	,	15	-10	250	-112	..		265	-122	
Dimapur	..	16	-18	88	- 43			104	- 61	
Fazl Ali	,	3	- 1	105	- 60			108	- 61	
Patkai	..		-	59	- 47			59	- 47	
Nagaland	Total :	37	-31	545	-273	-	-	582	-340	

Pre-University Arts1981

General			Regular Pass									S.C./O.B.C.											
Female			Total			S. Tribe			Female			Total			Male			Female			Total		
I	II	III	I	II	III	M	F	I	II	III	I	II	III	M	F	I	II	III	I	II	III	M	F
1	39	20			-	83	x	2	27	33	-	-	-	62	x	-	-	-	-	-	-	1	1
5	8	3	-	-	-	16		4	29	30	-	-	-	63		1	-	-	1	-	-		
-	-	-	27	35	14	76	-	-	-	-	10	40	28	78	-	-	-	-	-	-	-	-	-
								2	10		1	4	12	5	-	-	-	-	-	-	-	-	-
			3	18	26	47					2	28	59	89	-	-	-	-	2	-	-		2
	7	1		3	7	4		20	43		1	21	48	68	70	-	-	-	-	-	-	-	-
1	12	x	1	4	13	5		2	4			1	6	1	-	-	-	-	-	-	-	-	-
1	2	9	1	2	5	12	8	3	23		12	15	26	27	-	-	-	-	-	-	-	-	-
				1	1	1	3	12			4	7	16	11	-	-	-	-	-	-	-	-	-
														1	-	-	-	-	-	-	-	-	-
								9	12		3	6	21	9	-	-	-	-	-	-	-	-	x
4	11		2	15	2			16			1	22	16	23	-	-	-	-	-	-	-	-	-
54	62	32	56	55	146	143	7	95	188	13	110	191	290	314		1	2		1	2			
I	II	III	I	II	III	M	F	I	II	III	I	II	III	M	F								
-	-	-	-	-	-	-1		-1	-8		-2	-	9	-4									
-	-	-	-	-	-				-3			-	3										
-2	-6	1	-2	-6	8	-9		-15	-58	1	-7	-28	73	-36									
-4	-5	1	-3	-3	9	-7		-1	-14		-1	-1	15	-2									
-	-3	1	-	-	3	-1		-6	-23		-3	-12	29	-15									
-	-	-	-	-	-	-		-26	-23	2	-14	22	49	-38									
-6	-14	3	-5	-10	20	-18		-19	-229	3	-27	-65	178	-95									



## Analysis of Examination Result P. U. (Arts) 1981

Name of the College	Certain Subjects Appeared			Total			Certain Subject Passed.						Total	
	General	S. Tribe	S. Caste/ OBC	Total	General	S. Tribe	S. Caste & OBC	General	S. Tribe	S. Caste & OBC	General	S. Tribe		S. Caste & OBC
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Mt. Tiyi	10	4		10	4		5	2		5	2		5	2
Tuensang	21	1		21	1		5	1		5	1		5	1
Kohima	8	13	67	37	75	50	2	42	7		44	7		7
Dimapur			38	11	40	22		1	8	1		8	2	
Fazl Ali			74	40	74	40		34	16		34	16		16
Patkai			6	1	6	1		2	1		2	1		1
<b>Nagaland Total :</b>	<b>10</b>	<b>24</b>	<b>216</b>	<b>94</b>	<b>226</b>	<b>118</b>	<b>2</b>	<b>1</b>	<b>96</b>	<b>28</b>	<b>98</b>	<b>29</b>		

## Analysis of Examination

Name of College.	Exam.	Certain Subject Appeared					
		General		S. Tribe		S. Caste/ O. B. C.	
		M	F	M	F	M	F
St. Anthony's (P.U Arts' 18)		2		7			
St. Edmund's	..			6			
Seng Khasi	..			18	9		
St. Mary's	..		1		12		
L. K. G.	..		27		25		
Synod	..	4	2	35	64		
Sankardev	..	6	6	2	1		
Jowai Govt.	..			12	10		
Mandipathar	..	2	1	4	1		
U. C. C.	..			1			
Tura Govt.	..	9	2	14	6		
Shillong	..	2	1		4		
Meghalaya Total :		25	40	99	122		

## Result P.U. (Arts) 1981

## Certain Subjects Passed.

Total		General		S. Tribe		S. Caste & OBC		Total	
M	F	M	F	M	F	M	F	M	F
9		1		3				4	
6				5				5	
18	9			4	1			4	1
	13		1		7				8
	52		11			9			20
39	66		1	8	20			8	21
8	7	3	1	1				4	1
12	10			2	5			2	5
6	2	2						2	
1				1				1	
23	8	4	1	6	1			10	2
2	5	2			3			2	3
124	162	12	15	30	46			42	61

## P. U. (Arts) 1981.

Name of the College.	Certain Subjects Appeared						Certain Subject Passed.					
	General			S. Tribe S. Caste/ OBC			General			S. Tribe S. Caste		
	M	F	Total	M	F	Total	M	F	Total	M	F	Total
1. Saiha			3	1		3	1		1			1
2. Champhai			10	6		10	6		5	2		5
3. Kelasib			10	3		10	3		5	2		5
4. Pachhunga	1		52	10		53	10	1	21	2		22
5. Aizawl			141	53		141	53		54	22		54
6. Serchhip			7	2		7	2		5	2		5
7. Lunglei	1		32	4		32	5	1	11	1		11
<b>Mizoram Total :</b>	<b>1</b>	<b>1</b>	<b>263</b>	<b>79</b>		<b>264</b>	<b>80</b>	<b>1</b>	<b>102</b>	<b>32</b>		<b>103</b>
<b>Total of three States.</b>	<b>36</b>	<b>65</b>	<b>578</b>	<b>295</b>		<b>614</b>	<b>360</b>	<b>15</b>	<b>228</b>	<b>106</b>		<b>243</b>

## Pre-University (Sc) Examination : 1981

Name of the Colleges	Certain Subjects Appeared						Certain Subjects Passed						Total Remarks.	
	General		S.T.		S.C./OBC		General		S.T.		Sc./OBC			
	M	F	M	F	M	F	M	F	M	F	M	F		
Kohima Sc. College	6	2	42	7	48	9	1	1	11	2	12			
Nagaland Total :	6	2	42	7	48	9	1	1	11	2	12		33	
Pachhunga			10		10			7			7			
Lunglei														
Mizoram Total :			10		10				7		7			
Total of three States	15	3	60	9	75	12	8	2	21	2	29		4	

## Result Analysis of

Name of College	Exam. P.U. Sc	Regular Appeared						Regular Passed				
		Genl.		ST		SC OBC		Total		Male		
		M	F	M	F	M	F	M	F	I	II	III
St. Anthony's		112		186				298	9	26	17	
St. Edmund's		104		42		1		147	38	52	10	
St. Mary's			39		11			50				
Shillong		35	2	25	5		60	7	1	15	7	
Lady Keane Gir's'			31		40		1	72				
Sankardev		94	3	77	6		171	9	2	13	23	
Jowai Govt.				24	12		24	12				
Tura Govt.		15	5	24	12	1	40	17	1	4	4	
Meghalaya	Total :	360	80	378	86	2	1 740	167	51	110	61	

Name of College	Exam. P.U. Sc	Genl.		S.T.		S.C. OBC		Total		Male		
		M	F	M	F	M	F	M	F	I	II	III
		Kohima		19	9	104	31			123	40	1
Nagaland	Total :	19	9	104	31			123	40	1	5	5
Pachhunga			2	99	20			101	20			1
Lunglei			1	16				17				
Mizoram	Total :		3	115	20			118	20			1
Total of Three States			382	89	597	137	2	1 981	227	52	115	67

Pre-University Science. 1981.

General		Scheduled Tribe						S. Caste/OBC						
Female	Total	Male			Female			Total	M		F		Total	
I	II	III	M	F	I	II	III	M	F	I	II	III	M	F
	52		4	22	14				40					
	100		5	27	5				37					
17	1		38				7	4						11
	23		1	7	5			1	1					2
14	4		24					10	3				1	1
	1	38	1		9	13		2		22	2			
					4	2		1		6	1			
2	1	9	3		5	6		6		11	7		1	1
33	7	222	66	10	74	45	7	24	5	129	36		1	2
Regular Passed														
General		Scheduled Tribe						S. Caste/O.BC.						
Female	Total	Male			Female			Total	M		F		Total	
I	II	III	M	F	I	II	III	I	II	III	M	F		
1	1	3	11	5		8	28		5	4	36	9		
1	1	3	11	5		8	28		5	4	36	9		
			1		2	20	19		5	4	41	9		
						4	3				7			
			1		2	24	22		5	4	48	9		
27	34	10	234	71	12	106	95	7	34	13	213	54		

## Pre-University Science Examination 1981

Name of the Colleges	Certain Subjects Appeared						Certain Subjects Passed						Total Remarks	
	General		S.T.		S.C./OBC		General		S.T.		S.C./OBC			
	M	F	M	F	M	F	M	F	M	F	M	F		
St. Anthony's		5			5				1				1	No O.B.C.
St. Edmund's	4	1			5		4		1				5	"
St. Mary's			1	2		3		1					1	"
LadyKeane														"
Shillong	1				1									"
Sankardv	3	1			4		2						2	"
Jowai Govt.		1			1			1					1	"
Tura Govt.	1				1		1						1	"
Meghalaya Total :	9	1	8	2	17	3	7	1	3				10	1

**Analysis of Examination Results  
P. U. (Commerce) 1981**

Name of the College	Certain Subjects Appeared						Certain Subjects Passed								
	General			S. Tribe			S Caste/ O.B.C.			General			S. Tribe/ S. Caste O.B.C.		
	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total
Dimapur	16		54			70		7	20			27			27
Nagaland	16		54			70		7	20			27			27
St. Anthony's	23		5			28		16	1			17			17
Shillong	16		10		2	26		14	10		2	124			2
Meghalaya	39		15		2	54		30	11		2	41			2
<b>Grand Total of Meghalaya and Nagaland</b>	<b>55</b>	<b>69</b>	<b>2</b>	<b>124</b>	<b>2</b>	<b>37</b>	<b>31</b>	<b>68</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>68</b>	<b>2</b>	<b>2</b>	<b>2</b>

## Analysis of P.U.

## Collegewise

Name of the P.U. Com. College	Regular Appeared						Male		Female		
	Genl.		ST.		SC. OBC						
	M	F	M	F	M	F	M	F	I	II	III
Dimapur	40		50				90		8 14		
Nagaland Total :	40		50				90		8 14		
St. Anthony's	62	1	46				108	1	9 11		
Shillong	14	3	83	16			197	19	2	17	48
Meghalaya Total	176	4	129	16			305	20	2	26	59
Grand total of Meghalaya & Nagaland	216	4	179	16			395	20	2	34	73

## Examination Results Commerce 1981

## Statewise

		Regular Passed												Total	
		S. Tribe						S. Caste/O.B.C.							
Female	Total	Male			Female			Male			Female			Total	Total
		I	II	III	I	II	III	I	II	III	I	II	III		
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	22														
	22														
	20			3	1				4						
2	2	67	4	1	4	33		2	3	3	5				
2	2	87	4	1	7	34		2	3	42	5				
2	2	109	4	1	7	34		2	3	42	5				

## B. A. Examination

Name of College.	Examinations B.A.	Regular Appeared											
		Genl.		S.T.		S.C./ O.B.C.			Total		Male		
		M	F	M	F	M	F	M	F	I	II	SP	
St. Edmunds'		20		67					87				16
	(Hons)	10		29					39	1	6		3
St. Anthony's		46		50					96				21
	(Hons)	22		40			11		63		7		6
St. Mary's			24		19				43				
	(Hons)		26		20				46				
Tura Govt.		13	7	14	21				27	28			6
	(Hons)	7	7		2				7	4		1	2
Seng Khasi Synod		3		25	13				28	13			2
	(Hons)	18	4	100	92				118	96			4
		1		6	15				7	15		1	
Mendipathar		4		10	4				14	4			1



## Result Analysis of

Name of College	Examinations B.A.	Regular Appeared										
		Genl.		S.T.		S.C. O.B.C.		Total		Male		
		M	F	M	F	M	F	M	F	IW	II	SP
Shillong		31	8	23	29			54	37			5
	(Hons)	2		1				3				
Lady Keane Girls'			62		78			140				
	(Hons)		30		22		1	53				
Sankardev		40	7	18	5			58	12			11
	(Hons)	10	1	6				16	1		2	4
U. C. C.				9	8	1		10	8			
	(Hons)			6	2	1		7	2			
Jowai		1	1	18	29			19	30			1
	(Hons)			1				1				
Meghalaya Total :		228	172	423	359	3	1	654	532	1	17	83

B.A: 1981

## Regular Passed

General			S. Tribe						S.C./O.B.C.												
Female			Total		Male			Female			Total		Male			Female			Total		
I	II	SP	M	F	I	II	SP	I	II	SP	M	F	I	II	SP	I	II	SP	M	F	
		3	5	3			4			2	4	2									
							1				1										
		34		34			3			38		38									
2	11	12		25				1	11	6		18						1			1
		2	11	2			5				5										
			6				1				1										
							6			2	6	2									
						5	1		1	1	2	2		1							1
		1	1	1			4			5	4	5									
2	36	79	101	117	32	143	2	33	102	175	137	2				1	2			1	

## Result Analysis of

Name of College	Examinations B.A.	Regular Appeared										Male		
		Genl.		S.T.		S.C./ O.B.C.		Total		I	II	SP		
		M	F	M	F	M	F	M	F					
Aizawl		4	1	131	54			135	55				2	
	(Hons)	1		16	3			17	3					
Pachhunga		1		47	12			48	12					
	(Hons)			30	9			30	9					
Lunglei			2	25	7			25	9					
	(Hons)			3				3						
Champhai				9	4			9	4					
	(Hons)			4	3			4	3					
Serchhip				13				13						
Mizoram	Total :	6	3	278	92			284	95				2	

## B. A. Examination : 1981

Regular Passed						S. Tribe						S.C./O.B.C.			
General			Male			Female			Total			Male	Female	Total	
Female	Total		Male			Female			Total			Male	Female	Total	
I	II	SP	M	F	I	II	SP	I	II	SP	M	F			
	1	2	1				42				27	42	27		
						7	3				2		10	2	
							20				8		20	8	
						19	5				6	2	24	8	
	2		2				10				4		10	4	
							2	1					3		
								5			3		5	3	
							2				1		2	1	
													8		
	3	2	3			30	94				9	44	124	53	

## Result Analysis of B.A.

Name of College	Examination. B.A.	Genl.		S.T.		S.C.		Regular		Appeared		Male			
						O.B.C.		Total							
		M	F	M	F	M	F	M	F	I	II	SP			
Dimapur		7	11	46	8			53	19						1
Patkai				17	12			17	12						
Kohima		24	5	150	38			174	43						13
Kohima	(Hons)	2		18	4			20	4						2
Tuensang		2	1	14				16	1						2
Fazl Ali		5	1	56	32			61	33						3
Fazl Ali	(Hons)			4	5			4	5						
Mount Tiyi		3	2	18	2			21	4						2
Nagaland	Total :	43	20	323	101			366	121						23
Total of three States		277	195	1024	552	3	1	1304	748	1	17	108			



## Examination : B.A. 1981

Name of College	Certain Subject Appeared						Certain Subjects Passed						Total Remarks		
	Genl.		S.T.		S.C./OBC		Total General		S.T.		S.C./OBC			Total	
	M	F	M	F	M	F	M	F	M	F	M	F		M	F
St. Edmund's	3	2			5		2			1				3	
St. Anthony's	15	42			57		8			12				20	
St. Mary's	3	9			12		2			3				5	
Tura Govt.	14	5	17	18	31	23	1	2	3					4	
Seng Khasi		8	5		8	5			2	1				2	
Synod	3	1	13	19	16	20	1	1	3	5				4	
Shillong	2	3	2		4	3	2	3	1					4	
Lady Keane Girls'	26	17			43			9	4					3	
Sankardev	8	8	2		10	8	3	2	1					13	
U. C. C.		9	4		9	4			6	4				4	
Jowai Govt.		4	2		4	2			2	1				6	
Mendipathar	1	2	1		2	2		1	2					2	
<b>Meghalaya Total :</b>	<b>45</b>	<b>47</b>	<b>101</b>	<b>75</b>	<b>146</b>	<b>122</b>	<b>17</b>	<b>20</b>	<b>33</b>	<b>18</b>	<b>50</b>	<b>38</b>	<b>50</b>	<b>38</b>	

B. A. Examination : 1931

Name of College	Certain Subjects Appeared						Certain Subjects Passed						Total Remarks				
	Genl.		S.T.		S.C./OBC		Total		General		S.T.			S.C./OBC		Total	
	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F
Aizawl	2	44	21	1	46	21	1	21	12	22	12	No	OBC				
Pachhunga	2	16	6	1	18	6	1	11	3	12	3	—do					
Lunglei		11	1		11	1		7		7		—do					
Champhai		11	2		11	2		7		7		—do					
Serchhip	1	3			4			2		2		—do					
Mizoram Total :	5	85	30	2	90	30	2	48	15	50	15						
Total of three States	70	56	332	170	402	226	27	23	136	57	163	80	—do				
Dimapur	5	5	23	7	28	12	1	1	6	4	7	5					
Patkai		7	2		7	2		6	1	6	1	6	1				
Kohima	6	41	12		47	12	3	17	5	20	5	20	5				
Tuensang	1		1		1	1	1		1	1	1	1	1				
Fazi Ali	8	4	69	43	77	47	3	2	20	13	23	15					
Mount Tiyi			6		6			6		6		6					
Nagaland Total :	20	9	146	65	166	74	8	3	55	24	63	27					

**Analysis of B.Sc.  
College Wise**

Name of the College	Examination B.Sc.	Genl.		ST		Regular Appeared S.C./OBC		Total		I	Male	
		M	F	M	F	M	F	M	F		II	SI
St. Edmund's		11		4		1		16				7
	(Hons)	22		12				47				34
St. Anthony's		22		13			35					8
	(Hons)	76		17			93		6	26		2
St. Mary's Tura Govt. Shillong		4	3	3	3		7	6				3
	(Hons)	10	2	4	4		14	6				5
		5	1	2	3		7	4				3
Lady Keane Girl's			13		5			18				6
	(Hons)		19		8				27			5
Meghalaya Total :		163	38	55	23	1		219	61	9		43
Kohima Science		3	1	19				22	1			2
	(Hons)	5	3	10	3			15	6	1		3
Nagaland Total :		8	4	29	3			37	7	1		3
Pachhunga	(B.Sc.)			12				12				
Mizoram Total :				12				12				
Total of Three States		171	42	96	26	1		268	68	10		46

**Result Analysis of**

St. Mary's	(B.Sc.)											
	(H.Sc.)		1	5					6			



## B. Sc. Examination 1981

Name of the College	Certain Subjects Appeared						Certain Subjects Passed											
	S. Tribe			S. Caste/ OBC			Total			S. Tribe			S. Caste/ OBC			Total		
	M	F	F	M	F	F	M	F	F	M	F	F	M	F	F	M	F	F
St. Edmund's	4		4				8		1			3						4
St. Anthony's	10		5				5		2			1						3
Tura Govt.	1	1	1				2	1	1	1	1	1	1					2
St. Mary's																		1
Shillong	2						2		1									1
Lady Keane		1						1		1								1
Meghalaya Total :	17	2	10				27	2	5	5	5	5						10
Kohima Science			8	1			8	1				4	1					4
Nagaland Total :			8	1			8	1				4	1					1
Pachhunga			2	1			2	1				1						1
Mizoram Total :			2	1			2	1				1						1

**Analysis of Examination Results**  
**B. Com. 1981**

Name of the College	Certain Subjects Appeared						Certain Subjects Passed									
	Genl.		S. Tribe		S. Caste/ OBC		Total		Genl.		S. Tribe		S. Caste/ OBC		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
St. Anthony's	17		14				31		5		4					9
Shillong	1		1				2				1					1
Meghalaya Total :	18		15				33		5		5					10
Dimapur	3		1													
Nagaland	3		1													
Total of the two States	21		16				33		5		5					10

## Analysis of B.Com.

Name of College	(Examination) (B. Com).	Regular Appeared										
		General		S. Tribe		S.C/OBC		Total		Male		
		M	F	M	F	M	F	M	F	I	II	SP
St. Anthony's		28		29		1		58				7
	(Hons).	30	1	3				33	1	6		7
Shillong		43		40	6			83	6			15
	(Hons).	16		10	1			26	1	6		7
Meghalaya Total :		117	1	82	7	1		200	8	12		36
Dimapur		32	4	31	1			63	5			13
Nagaland Total :		32	4	31	1			63	5			13
Total of Meghalaya and Nagaland.		149	5	113	8	1		263	13	12		49



### Result Analysis of Pre-University (Arts) & B.A. (Private) 1981

Name of Examination	Regular Appeared										Regular Passed										S. Caste/OBC																														
	Genl. ST.					SC/OBC					Total					Male					Female					Total					Male					Female					Total										
	M	F	M	F	M	M	F	M	F	M	M	F	M	F	M	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III												
Private PU Arts	5	27	13	26							18	83				1	4	6	1	10		2	4	5	2	9		2	4	5	2	9																			
Private B.A.	3	22	10	20							13	42				1	8	1	8			2	10	2	10			2	10	2	10																				

Name of the Examination	Certain Subjects Appeared										Certain Subjects Passed																													
	General					S. Tribe					O.B.S.					General					S. Tribe					O.B.C.														
	M	F	M	F	M	M	F	M	F	M	M	F	M	F	M	M	F	M	F	M	M	F	M	F	M	M	F	M	F	M										
Private (PU)	4	19	4	8							8	27	2	7	1	2	7	1	2		2	7	1	2																
Private (B.A.)	6	9	2	2							8	11	1	6	1	1	6	1	1		1	6	1	1												3	9	2	6	

### Analysis of Degree Examination Results 1981 B.Ed. (December 1980)

College	Regular Appeared										Regular Passed															
	Genl.					S.T.					SC/					S. Tribe					S. Caste/O.B.C.					
	M		F		Total	M		F		Total	M		F		Total	M		F		Total	M		F		Total	
	I	II	I	II	SP	I	II	I	II	SP	I	II	I	II	SP	I	II	I	II	SP	I	II	I	II	SP	
St. Mary's (B. ED)	2	38	1	16	3	54	2	19	14	2	33	1	8	8	1	16										
Mizoram Institute of Education.	3	3	55	12	58	15	1	2	1	2	3	28	11	7	1	39	12									
P.G. Train- ing (B.ED) Nagaland College of Education (B. ED).	44	15	25	6	69	21	8	24	3	3	10	1	35	14	1	17	6									
<b>Grand Total</b>	<b>131</b>	<b>90</b>	<b>95</b>	<b>39</b>	<b>4</b>	<b>2</b>	<b>230</b>	<b>131</b>	<b>18</b>	<b>55</b>	<b>33</b>	<b>26</b>	<b>40</b>	<b>6</b>	<b>107</b>	<b>72</b>	<b>3</b>	<b>43</b>	<b>17</b>	<b>10</b>	<b>21</b>	<b>3</b>	<b>63</b>	<b>38</b>		



## Analysis of P.G. Departments End Semester : 1981

Name of Deptt.	Genl.			Appeared			SC.			Total			(General)			Passed			S. Tribe			Total		
	M	F	M	M	F	M	M	F	M	M	F	M	F	M	F	M	M	F	M	F	M	F	M	F
Chemistry.	5		6			11			1		1			1		1			2		2			4
Physics	4		1			4					3			3		1			3		3			1
Zoology	4		3		9	2					13			3		3			3		3			9
Botany	4		4		6	3					10			2		2			2		2			3
Mathematics	2		2								2			1		2			1		1			1
<b>Total of Science :</b>	<b>19</b>	<b>10</b>	<b>21</b>	<b>5</b>		<b>40</b>	<b>15</b>		<b>1</b>	<b>2</b>	<b>10</b>	<b>6</b>		<b>1</b>	<b>11</b>	<b>8</b>		<b>2</b>	<b>10</b>	<b>2</b>	<b>1</b>	<b>13</b>	<b>2</b>	



**B. Ed. Enrolment 1980-81.**

Name of Colleges	Genl.		S.T.		S.C.		O.B.C.		Total	
	M	F	M	F	M	F	M	F	M	F
St. Mary's Post-Graduate Trg.	2	35	1	18					3	54
Nagaland College of Education	17	10	17	7				1	108	44
Mizoram Institute of Education.	17	10	30	18					47	29
	3	3	52	9					55	12
<b>Grand Total :</b>	<b>113</b>	<b>84</b>	<b>100</b>	<b>52</b>			<b>1</b>	<b>2</b>	<b>213</b>	<b>139</b>

## Enrolment for the

## First Year Pre-University

Name of the College	Course P.U.	Genl.		S.T.		S.C.		O.B.C.	
		M	F	M	F	M	F	M	F
St. Anthony's	(Arts)	55		168					
	(Sc)	144		175					
	(Com).	65		75		2			
Shillong	(Arts)	35	9	30	15	6	2	8	3
	(Sc)	30	2	10	5	4		4	1
	(Com)	97	3	89	10	6		25	
St. Edmund's	(Arts)	26		106		1		6	
	(Sc)	109		61				7	
St. Mary's	(Arts)		89		111				5
	(Sc)		52		26				
Lady Keane	(Arts)		128		212		3		28
	(Sc)		27		62				3
Union Christian	(Arts)			38	18	10	3	4	3
Synod	(Arts)	17	3	173	138			1	
Jowai Govt.	(Arts)			86	87			2	
	(Sc)			19	9			2	
Mendipathar	(Arts)	27		25	7			9	
Seng Khasi	(Arts)			40	18				
Tura Govt.	(Arts)	79	22	161	80	6	2	22	2
Sankardev	(Arts)	31	5	26	4	7	2	3	
	(Sc)	22	5	16	4	8	3	6	1
<b>Total :</b>	<b>1st. Yr. P.U.</b>	<b>737</b>	<b>345</b>	<b>1298</b>	<b>806</b>	<b>50</b>	<b>15</b>	<b>99</b>	<b>46</b>

Academic Year : 1980—81

## Second Year Pre-University

Total		Course P.U.	Genl.		S.T.		S.C.		O.B.C.		Total	
M	F		M	F	M	F	M	F	M	F	M	F
223		(A)	77		182		1					260
319		(Sc)	129		187							316
142		(Com)	76		67							143
79	29	(A)	80	20	40	16	7	3	15	5	142	44
48	8	(Sc)	32	2	23	4	3		5	1	63	7
217	13	(Com)	100	9	86	9	18	2	19	1	223	21
139		(A)	17		87				4		103	
177		(Sc)	103		39		1		4		147	
	205	(A)		80		104				5		189
	78	(Sc)		41		15						56
	371	(A)		129		217		1		21		368
	92	(Sc)		33		52		1		2		89
52	24	(A)			42	22	2	2	4		48	24
191	141	(A)	9	3	249	261	1		5	5	254	269
88	87	(A)			60	73			2	1	62	74
21	9	(Sc)			26	12			1		27	12
61	7	(A)	4		48	23	1		4	1	57	24
40	18		1		101	34					102	34
268	106		80	68	108	70	7	2	1		196	140
67	11		58	8	47	5	14	3	5	1	124	17
52	13	(Sc)	101	27	61	22	11	7	4	3	177	59
2184	1212	2nd. Yr. P.U.	867	420	1453	940	66	21	73	46	2459	1427
			737	345	1298	806	50	15	99	46	2184	1212
Grand Total :			1604	765	2751	1746	116	36	172	92	4643	2639

Enrolment for the  
First Year Pre-University

Name of College	Course P.U.	Genl.		S.T.		S.C.		O.B.C.	
		M	F	M	F	M	F	M	F
Pachhunga Univ.	(Arts)			181	111	1		2	1
	(Sc)			111	20	6		2	
Lunglei	(Arts)			127	52			5	
	(Sc)			30	5				
Aizawl	(Arts)			445	213			3	
Champhai	(Arts)			62	24				
Saiha	(Arst)			78	22				
Serch i?	(Arts)	3	2	36	12				
Kolasib	(Arts)			38	7				
<b>Total :</b>	<b>Ist. Yr.</b>	<b>3</b>	<b>2</b>	<b>1108</b>	<b>466</b>	<b>7</b>		<b>12</b>	<b>1</b>
<b>Mizoram</b>									
Kohima Arts	P.U. (Arts)	20	16	160	90				
Patkai Christian	(Arts)	1		90	56			1	1
Mount Tiyi	(Arts)			22	8				1
Tuensang	(Arts)	5	1	36	4				
Fazl Ali	(Arts)	9	1	114	77				
Kohima Sc.	(Sc)	11	13	162	24				
Dimapur	(Arts)	28	30	52	21				
	(Com)	63	3	76					
<b>Total :</b>	<b>Ist. Yr.</b> <b>P.U.</b>	<b>137</b>	<b>64</b>	<b>712</b>	<b>280</b>			<b>1</b>	<b>2</b>

**Nagaland Grand Total :**

## Academic Year 1980

## 2nd Year Pre-University.

Total		Course P.U.	Genl.		S.T.		S.C.		O.B.C.		Total	
M	F		M	F	M	F	M	F	M	F	M	F
184	112	(Arts)			110	72			1		111	72
113	20	(Sc)			94	22					94	22
132	52	(Arts)			85	22					85	22
30	5	(Sc)			25	2			1		26	2
448	213	(Arts)	1		404	378			1		106	378
62	24	(Arts)			60	34			1		60	34
78	22	(Arts)			42	9					42	9
39	14	(Arts)	1	1	36	13					37	14
38	7	(Arts)			49	17					49	16
1124	469	2nd Yr. P.U.	2	1	905	569			3		910	570
			3	2	1108	466	1		12	1	1124	469
Grand Total :			5	3	2013	1035	1		15	1	2034	1039
180	106	P.U. (Arts)	15	10	261	112					276	122
92	57	(Arts)			87	68			1		88	68
22	9	(Arts)			41	12					41	12
41	5	(Arts)	4	1	21	5					25	76
123	78	(Arts)			162	91			9	1	171	92
173	37	(Sc)	16	7	166	39					182	46
80	51	(Arts)	28	20	47	23					75	43
139	3	(Com)	16	1	79	1					95	2
850	346	2nd Yr. P.U.	79	39	864	351			10	1	953	391
			137	64	712	280			1	2	850	346
			216	103	1576	631			11	3	1803	737

**Enroment for the  
First Year Degree**

Name of College	Course	Genl.		S.T.		S.C.		O.B.C.	
		M	F	M	F	M	F	M	F
Aizawl	B.A.	1		262	115				2
Champhai	B.A.	6		31	10				
Lunglei Govt.	B.A.			35	10				
Saiha	B.A.			16	3	1			
Serchhip	B.A.		1	21					
Kolasib	B.A.			28	7				
Pachhunga	B.A.			86	22	1			1
	B.Sc.			19					2
<b>Total :</b>		1	1	498	167	2			5
<b>Mizoram Grand Total :</b>									

## Academic Year 1980-81.

## Second Year Degree :

Total		Course	Genl.		S.T.		S.C.		O.B.C.			Total	
M	F		M	F	M	F	M	F	M	F	M	F	
265	115	B.A.	2	1	151	54			2	1	155	56	
31	10	B.A.			14	7					14	7	
35	10	B.A.			16	2			3		16	5	
17	3	B.A.											
21	1	B.A.	1		12	1					13	1	
28	7	B.A.											
88	22	B.A.			61	18					61	18	
21		B.Sc.			11						11		
506	168	Total :	3	1	265	82			2	4	270	67	
			1	1	498	157	2		5		206	168	
			4	2	763	240	2		7	4	776	255	

## Enrolment for the

Name of College	Course	General		S. Tribe		S. Caste		O.B.C		
		M	F	M	F	M	F	M	F	
St. Anthony's	B.A.	48		128						
	B.Sc.	82		37						
	B. Com.	47		37						
Shillong	B.A.	22	2	21	10	3		5		
	B.Sc.	6	1	5	3	1		3		
	B. Com.	46		40	5	6		9		
St. Edmund's	B.A.	42		83		3		3		
	B.Sc.	73		20		2		7		
St. Mary's	B.A		47		61				2	
	B.Sc.		3		1					
	B.Sc. (H.Sc)		6		6					
Lady Keane	B.A.		74		101				13	
	B.Sc.		31		33		1		2	
Union Christian	B.A.			32	9	2	3	1		
Synod	B.A.	5		105	93	1		1	2	
Jowai Govt.	B.A.			44	28			2		
Mendipathar	B.A.	4		9	1			1		
Seng Khasi	B.A.			31	9					
Tura Govt.	B.A.	20		29	36			1	2	
Sankardev	B.A.	30	5	24	4	4	3	2		
<b>Total :</b>			425	187	645	400	22	7	35	21

Meghalaya Grand

## Academic Year 1980-81

Total		Course	General		S. Tribe		S. Caste		O.B.C.		Total	
M	F		M	F	M	F	M	F	M	F	M	F
176		B.A	62		109						171	
119		B.Sc.	138		42						180	
84		B.Com.	76		38						114	
51	12	B.A.	30	6	28	4			4		66	18
15	4	B.Sc.	12	2	10	4	1		5		28	7
101	5	B.Com.	36		27	3	3		6		72	7
131		B.A.	41		29		30		31		131	
102		B.Sc.	48		16				2		66	
	110	B.A.		46		46				2		94
	4	B.Sc.		3		3						6
	12	B.Sc.				5				1		6
		(H.Sc.)										
	188	B.A.		98		143		2		8		21
	67	B.Sc.		31		11				3		45
35	12	B.A.	6		16	12	3				19	12
112	95	B.A.	7		90	95			2		99	95
46	28	B.A.			27	25					27	25
14	1	B.A.	1	1	9	2			3		13	3
31	9	B.A.	2	1	48	20					50	21
50	56	B.A	12	8	18	24			1		31	32
60	12	B.A	38	13	31	11	14	2	6		89	26
1127	615	Total :	503	209	538	416	55	4	60	19	1156	648
			425	187	645	400	22	7	35	21	1127	615
		Total :	928	396	1183	816	77	11	95	40	2283	1263

**Enrolment for the**

**First Year Degree**

Name of College	Course	General		S. Tribe		S. Caste		O.B.C.	
		M	F	M	F	M	F	M	F
Kohima Arts	B.A.	5	4	85	25				
Patkai Christian	B.A.	4		24	11	2			
Mount Tiyi	B.A.			17	5				
Tuensang	B.A.	1	1	9					
Fa l Ali	B.A.	4	2	45	32				
Kohima Science	B.Sc.	8	2	46	10				
Dimapur	B.A.	8	10	24	12				
	B. Com.	24	2	22					
Total :		54	21	272	95	2			
<b>Nagaland Grand</b>									

## Academic Year-1980-81

## Second Year Degree

Total		Course	General		S. Tribe		S. Caste		O.B.C.		Total	
M	F		M	F	M	F	M	F	M	F	M	F
90	29	B.A.	16	7	112	32					128	29
30	11	B.A.			23	13					23	13
17	5	B.A.			15	5					15	5
10	1	B.A.	1		5	1					6	1
49	34	B.A.	2		44	29					46	29
54	12	B.Sc.	4	2	40	5					44	7
32	22	B.A.	12	6	21	6					33	12
46	2	B.Co m.	20	3	18	1					38	4
328	116	Total	55	10	278	92					333	110
			54	21	272	95	2				320	116
Total			109	39	550	187	2				661	226

## Enrolment For the

Name of State	Course	Genl.		S.T.		S.C.		O.B.C.	
		M	F	M	F	M	F	M	F
Meghalaya	1st Year P.U.	737	345	1298	806	50	50	99	46
Mizoram	„	3	2	1108	466	1		1124	469
Nagaland	„	137	64	712	280			1	2
<b>Grand Total :</b>	„	<b>877</b>	<b>411</b>	<b>318</b>	<b>1552</b>	<b>51</b>	<b>15</b>	<b>158</b>	<b>2027</b>
Meghalaya	1st Year Degree	425	187	645	400	22	7	127	211
Mizoram	„	1	1	498	167	2		5	
Nagaland	„	54	21	272	95	2			
<b>Grand Total :</b>	„	<b>480</b>	<b>209</b>	<b>1415</b>	<b>662</b>	<b>26</b>	<b>7</b>	<b>40</b>	<b>21</b>

## Academic Year 1980-81

Total		Courses	Genl.		S.T.		S.C.		O.B.C.		Total	
M	F		M	F	M	F	M	F	M	F	M	F
2184	1212	2nd	867	420	1453	940	66	21	73	46	2454	1427
		Year.										
1124	469	„	2	1	905	569			3		910	570
850	346	„	79	39	864	351			10	1	953	391
158	2027	„	948	560	3222	1860	66	21	86	47	4322	2388
127	615	2nd Yr.	503	209	538	416	55	4	60	19	1155	648
		Degree										
506	168	„	3	1	263	82			2	4	270	87
328	116	„	5	18	278	92					333	110
1961	899	„	561	228	1081	5590	55	4	62	23	1759	845

## Enrolment in the P. G. Departments : 1980-81.

Name of the Department	Previous						Final						Total								
	Genl.		S.T.		S.C.		OBC		Total		Gcnl.		S.T.		S.C.		OBC		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
M.Sc. (Bot)	6	2	7	5					13	7	5	2	11	2						16	4
" (Zoo)	10	3	2	2	1	2	1	14	6	3	2	8	3				1	1	12	6	
" (Phy)	9	4	2		1		1	11	6	5	1								6	1	
" (Maths)	13	4	2		1	1		16	5	2	2								2	2	
" (Chem)	7	3	2					9	3	5		3	1						8	1	
G. Total of Science	45	16	15	7	2	3	2	63	27	20	7	23	6				1	1	44	14	
Total of Shillong	26	38	139	54	1	5	7	4173	101	33	29	105	32				4	4	3142	68	
Total of Kohima	1	2	8	12			1	10	14		2	4	9						4	11	
Total of Mizoram	1		30	1				31	1	2		10	4						12	4	
Grand Total of Arts	28	40	177	67	1	5	8	4214	116	35	31	119	45				4	4	3158	83	
Grand Total of Arts and Science	73	56	192	74	1	7	11	6277	143	55	38	142	51				4	5	4202	97	

## Enrolment of M. Phil. and Ph. D. for 1980-81.

Name of the Deptt.	Course	General		S. Tribe		S. Caste		O.B.C.		Total	
		M	F	M	F	M	F	M	F	M	F
		2	3	4	5	6	7				
English	M. Phil.	4	1		1					4	2
Economics.	Ph. D.	1	1							1	1
	M. Phil.		3	6	1					6	4
Pol. Sc.	Ph. D.	1	1	1	1				1	2	3
Philosophy	M. Phil.	2	1	3	1					5	2
History	M. Phil.		2	1	2					1	4
	Pre Ph. D.	2		3						5	5
Geography	Pre Ph. D.	3	1							3	1
M. ED.	M. Phil.	1					2			1	2
Sociology	M. Phil.	1	1	2	1					3	2
Anthropology	M. Phil.		1	1	1					1	2
Botany	Ph. D.	19	5	2	2					21	7

	1	2	3	4	5	6	7
Zoology		Ph. D.	18	4	5	1	24
Physics		Ph. D.	2	2			2
Mathematics		Pre Ph. D.	2				2
Chemistry		Ph. D.	18	4			19
		M. Phil.	9	11	13	10	22
<hr/>							
Number of Research							
Scholars.		Pre. Ph. D.	4		3		7
<hr/>							
		Ph. D.	62	18	9	7	72
<hr/>							
Total :			75	29	25	17	101
<hr/>							
				1	1	1	47

## Enrolment in P. G. Deptts, 1980-81

Name of the Department.	Previous												Final											
	Genl.		S. T.		S.C.		OBC		Total		Genl.		S. T.		S.C.		OBC		Total					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
<b>Shillong.</b>																								
M.A. (Engl).	7	9	19	20			1		27	29	4	4	6	6			3		13	10				
M.A. (Eco).	3	4	31	6			1		34	11	7	1	21	7					28	8				
M.A. (Pol).	1	6	16	8	5	5			22	19	4	6	22	2	4				26	12				
M.A. (Phil).	4	8	8	2					12	10	2	5	8						10	5				
M.A. (Hist).	2	4	28	11			1		31	15	3	1	27	6					30	7				
M.A. (Geog).	7	2	17		1				25	2	9	5	7						16	5				
M.A. (Socio).	2	3	13	5					15	9	1	2	12	4			1	2	14	8				
M.A. (Anthro).									7	6														
M.Ed.	2	2	7	2			2				3	5	2	7			1	5	13					
<b>Total :</b>	26	38	139	54	1	5	7	4	173	101	33	29	105	32	4	4	3	4	142	68				

	1	2	3	4	5	6	7	8	9	10	11								
<b>Kohima</b>																			
M.A. (Engl).		1	1	1	1	2		2			2								
Kohima '80-81.																			
M.A. (Edn).	1	1	8	11		9	12	2	4	7	4								
<b>Aizawl</b>																			
M.A. (Engl)			5			5		2			2								
M.A. (Eco).	1		25	1		26	1												
M.Ed.							2	8	4		10								
<b>Grand Total :</b>	28	40	177	67	1	5	8	4	214	116	35	31	119	45	4	4	3	158	83

**Enrolment in the College of Agriculture, Medzilhema : 1980-81.**

1st. Year (1981-82)	2nd Year (1980-81)		3rd Year (1979-80)		4th Year (1978-79)			
	M	F	M	F	M	F		
General	3	1	8		2	1	7	1
S. Tribe	43	11	43	9	35	2	31	1
S. Caste								
<b>Total :</b>	<b>46</b>	<b>12</b>	<b>51</b>	<b>9</b>	<b>37</b>	<b>3</b>	<b>38</b>	<b>2</b>

## Enrolment in LL. B.

Name of Colleges.	Preliminary										Inter-			
	Genl.		S.T.		S.C.		OBC		Total		Genl.		S.C.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Tura Law	13		17	3					30	3	11		3	
Kohima Law	26	2	29						55	2	18		9	1
Shillong Law	83	7	82	44	3		6		174	51	46	5	74	27
<b>Grand Total.</b>	122	9	128	47	3		6		259	56	75	5	86	28

## Course for 1980-81.

mediate						Final									
S.C.		OBC		Total		Genl.		S.T.		S.C.		OBC		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
				14		16	1	6	1					22	2
				27	1	11		1						12	
2		3		125	32	42	4	41	16	2	1	3	2	88	23
2		3		165	33	69	5	48	17	2	1	3	2	122	25

**Enrolment in B.A.,  
For the Academic**

First Year Degree (Honours).

Name of College.	Course	General		S. Tribe		S. Caste	
		M	F	M	F	M	F
St. Anthony	B. A.	20		45			
	B. Sc.	52		32			
	B. Com.	28		12			
Shillong	B. A.	5	3	6	2		
	B. Sc.	4	1	5	3		
	B. Com.	18		8	2		
St. Edmund's	B. A.	22		27			9
	B. Sc.	59		13			5
St. Mary's	B. A.		33		32		
Lady Keane Girls'	B.A.		30		46		
	B Sc		37		20		
Union Christian Synod.	B A			12	6		
	B. A.	6	3	36	18		
Jowai Govt	B. A.			8	2		
Sankardev	B. A.	15	6	15	2		2 1
Tura Govt.	B. A.	8	4	5	5		
Total :	B. A.	76	79	154	113	11	1
	B. Sc.	118	38	50	23	5	
	B. Com.	46		20	2		
Grand Total Meghalaya :		240	117	222	140	16	1

B. Sc., & B. Com.  
Year 1980-81

Second Year Degree (Honours).

O.B.C.		Total		General		S. Tribe		S. Caste		O.B.C.		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F
		65		14		52						66	
		87		90		34						124	
		40		35		11						46	
		11	5	3	2	4						7	2
		9	4	5	1	3						8	1
		26	2	14	1	7	2					21	3
17		75		17		46		14		14		91	
6		83		32		8		3		1		44	
			65		26		20						46
			76		20		26						46
			57		20		16						36
		12	6			9	1					9	1
		42	21	5	2	20	20					25	22
		8	2			4	1					4	1
		32	9	9	2	9	2					18	4
		13	9	8	2	4	2					12	4
17		268	193	56	54	148	72	14		14		232	126
6		179	61	127	21	45	16	3		1		176	37
		66	2	49	1	18	2					67	3
23		503	256	232	76	211	90	17		15		473	166

Name of College	Course	General		S. Tribe		S. Caste	
		M	F	M	F	M	F
Pachhunga	B. A.			49	36	1	
Aizawl	B. A.	8	2	104	27		
Champhai	B. A.			15	4		
Lunglei	B. A.			9	2		
<b>Total :</b>	B. A.	8	2	177	79	1	
Kohima Sc.	B. Sc.	3	1	17	4		
Kohima (A)	B. A.	2		12	5		
Fazl Ali	B. A.			4	1		
<b>Total :</b>	B. A.	2		16	6		
	B. Sc.	3	1	17	4		
<b>Grand Total</b>	B. A.	86	81	347	198	12	1
<b>of three States :</b>	B. Sc.	121	39	67	27	5	
	B. Com.	46		20	2		
<b>Grand Total :</b>		253	120	434	227	17	1

O.B.C.		Total		General		S. Tribe		S. Caste		O.B.C.		Total	
M	F	M	F	M	F	M	F	M	F	M	F	M	F
		50	36			14	1	1				36	14
		112	39	2		20	4					22	4
		15	4			5	2					5	2
		9	2			2						2	
		186	81	2		20		1				65	20
		20	5	2	1	16	5					18	6
		14	5	3	2	15	10					18	12
		4	1			3						3	
		18	6	3	2	18	10					21	12
		20	5	2	1	16	5					18	6
17		462	280	61	56	228	102	14		14		318	158
6		199	66	129	22	61	21	3		1		194	43
		66	2	49	1	18	2	2				67	3
23		727	348	239	79	307	125	17		15		579	204