

NORTH-EASTERN HILL UNIVERSITY
MAWKYNROH::: UMSHING
SHILLONG

No: AC: 53-2/Conf/96-4022 Dated Shillong the 21st May, 1996.

To

The Members of the
Academic Council,
NEHU.

Subject: Agenda papers for the 53rd meeting of the Academic
Council.

Sir/Madam,

I am forwarding herewith the agenda papers for the
53rd meeting of the Academic Council to be held on 3rd and
4th June, 1996 at 11:00 A.M. at the Seminar Hall, Mayurbhanj
Complex, Nongthymmai, Shillong for favour of your perusal and
consideration.

Yours faithfully,

Enclo: a.a

Receipt 21/5/96
(Mrs. S. Rynjah)
Officer on Special Duty

AGENDA PAPERS FOR THE FIFTYTHIRD MEETING OF THE ACADEMIC COUNCIL

Contents

Page No.

Item No.1 CONFIRMATION OF THE MINUTES:

(i) No; AC: 52: 96: 5: 5: (1)-modification thereof 1: 1: (1)

Item No.3 RATIFICATION OF ACTION TAKEN BY THE VICE-CHANCELLOR:

(i) Consideration of external experts to the School Board. 3: 1: (1-2)

(ii)- Panel of experts in Garo & Hudi 3: 2: (1)

Item No.5 ACADEMIC MATTERS :

5: 1-Statutes, Ordinances, Regulations & Rules-

- (i) Revised Ordinances on OB-6, OB-, 7 and Ordinances on Management of Colleges affiliated to NEHU ----- 5: 1: 1: (1)
- OB-6 On the affiliation of College Annexure-'A' 5: 1: 1: (2-7)
- OB-7 On the College Development Council Annexure-'B' 5: 1: 2: (2-3)
- Management of Colleges affiliated to the NEHU Annexure-'C' 5: 1: 3: (1-10)

5: 2- Syllabus-

- (i) Revised Syllabus B.Sc in Chemistry 5: 2: 1(1-48)
- (ii) Syllabus on Environmental Chemistry-M.Sc level. 5: 2: 2: (1-3)
- (iii) M.Sc Physics Syllabus 5: 2: 3: (1-42)

Contd/.../-

Contents

Page No.

5:5 - Examination Matters -

- (i) Three Year Degree Course with Annual Annual System of Examinations. 5:5:1: (1-3)
- (Copy of Supplementary Observations from the Meghalaya College Principals' Council)*
- { U.C. Regulations on the minimum standard of instructions }* } see back-page
- (ii) - Report of the committee - Ordu of the Gauhati H/C. - - - do -
- (iii) - Recognition of the plus two stage of MBOSE. - - - do -
- 5:6 - Establishment of new Deptts./Centres/Courses-
- (i) Introduction of a Course on Environment Awareness. 5:6:1: (1-12)
- (ii) Impact on NEHU consequent upon estt. of a Mizoram University and taking over of College or opening of a University College in Shillong/Jowai. 5:6:2: (1-19)

5:8 - Others -

- (i) Rescheduling of papers taught in B.A/ B.Sc in Economics. 5:8:1: (1-3)
- (ii) Representation of the Campus Head, Department of Economics, NEHU, Aizawl. 5:8:2: (1)
- (iii) Reservation for SC/ST candidates for P.G fellowship/Scholarship under NEHU. 5:8:3: (1-2)

6:6 -

- (i) - Counting of previous experience for placement of lecturers under Career Adv. Scheme. 6:6:1 (see back-page)

Item No. 7 - FINANCIAL MATTERS :

7:1 - Others-

- (i) Development proposal during 9th Plan period. 7:5:1: (1)

Item No:1 CONFIRMATION OF THE MINUTES:

(i) AC:52:96:5:5:(i) -- modification thereof

The Head, Department of Education, NEHU, Shillong has requested that in the last para of the above mention Academic Council resolution the word Mizoram Campus should be added and the resolution should read as under:

" The Council in general stressed on compliance to the provision of the Ordinance and RESOLVED that a Committee consisting of the following members may look into the irregularities that occurred in the Department of Education, Mizoram Campus."

Item No:3 RATIFICATION OF ACTION TAKEN BY THE
VICE-CHANCELLOR:

- (i) Consideration of external experts to the
School Board.

In accordance with the provisions of Ordinance OA 7 Clause 1(vii) on the constitution of the School Board, five external experts are to be nominated by the Academic Council.

The School Board of:- 1) Life Sciences and 2) Humanities and Education have been constituted with the approval of the Vice-Chancellor.

The panel of names under the above mentioned clause of Ordinance OA 7 for the two School Boards are submitted below for ratification of the Academic Council.

School of Life Sciences:

1. Prof.Ashim Chakrabarti,
Department of Life Sciences,
North Bengal University,
P.O.Raja Ram Mohan Puri, Dist.
Darjeeling, West Bengal - 744430.
2. Prof.T.R.Rao,
Department of Zoology,
University of Delhi,
New Delhi - 110007.
3. Prof.A.K.Tyagi,
Department of Bio-Chemistry,
University of Delhi South Campus,
Benito Jaurez Road,
New Delhi - 110021.
4. Prof.D.N.Tiwari,
Department of Botany,
Banaras Hindu University,
Varanasi - 221005.
5. Prof.P.K.Gupta,
Department of Agricultural Botany,
Meerut University,
Meerut(UP).

School of Humanities and Education:

1. Prof. C.L. Anand,
F.87 Vikasuri,
New Delhi - 110018.
2. Prof. J. Jha,
Principal,
B/8 Professor's Colony,
North LB, Shastrinagar,
Patna - 800023.
3. Prof. Harish Trivedi,
A-5 Sector 14
No.1 DA-201301.
4. Prof. I.M. Simon,
Mawlai Umjaiur,
Shillong - 793008.
5. Prof. M.P. Marathe,
Head, Department of Philosophy,
Poona University, Pune-411007.

5: 1: 1: (1)

Item No. 5 ACADEMIC MATTERS :

5: 1- Statute, Ordinances, Regulation & Rules-

(i) Revised Ordinances OB-6, OB-7 and Ordinances on the management of Colleges affiliated to NEHU.

The Academic Council in its 51st meeting held on 2nd & 3rd November, 1995 vide Resolution No. AC:51:95:5:1:(iii) had constituted a Committee consisting of the following members to review the existing Ordinances OB-6 and OB-7 on the affiliation of Colleges and the College Development Council respectively and also to frame Ordinances on the Management of Colleges affiliated to North-Eastern Hill University.

The Committee met on several occasions and the revised Ordinances on affiliation of Colleges and the College Development Council and the Management of Colleges affiliated to North-Eastern Hill University are placed at Annexure 'A' 'B' and 'C'.

The matter is placed before the Council for consideration.

●B 6.

ON THE AFFILIATION OF COLLEGES(Statute 33 (6) of the Schedule
to the NEHU Act)Affiliation
Committee.

1.(1) The Academic Council shall constitute an Affiliation Committee for Colleges/Institutions under the University - The composition of the Committee shall be as follows :

- (i) Vice-Chancellor ~~or~~ - Chairman
Pro-Vice-Chancellor.
- (ii) Director of Public - Member (s)
Instructions/Higher
Education or his
nominee of the State(s)
concerned.
- (iii) Two nominees of the - Members
Academic Council
- (iv) Registrar or any - Member
other Officer nominated Secretary.
by the Vice-Chancellor.

Powers &
Functions.

- (2) The Affiliation Committee shall be the main body to scrutinize the applications for affiliation and recommend to the Academic Council affiliation of Colleges/Institutions. Withdrawal of affiliation if any, of Colleges/institutions shall also be recommended by the affiliation Committee.

Meetings.

- (3) The Affiliation Committee shall meet as and when necessary.

Quorum.

- (4) The Quorum for the meeting of the Committee shall be one-third of its total membership.

Degree Colleges. 2. The Colleges for the purpose of the Ordinance shall be Degree Colleges including the professional ones, providing instructions for relevant degree courses (General/Major/Professional courses). Admission to the privileges of the University for various courses leading to a particular degree shall be decided separately.

Starting a
New College/
Institution/
Course.

3.(1) When it is proposed to start a new college/institution/course, the sponsoring body, or in the case of a Govt.college/institution, the Head of the Govt. deptt. concerned, shall submit an application to the Registrar in a prescribed form not later than August 15 of the preceding year in which it is intended to start the college/institution/course. The application shall be accompanied by a project report giving details along with required fees as laid down hereunder.

Initial screening
of the application.

(2) On the receipt of the application along with prescribed fees, the Affiliation Committee shall scrutinize the application and may seek further clarification, if necessary from the sponsoring body either in writing or through a representative. If the Committee is satisfied with the project report, it shall constitute an Inspection Team with the approval of the Vice-Chancellor, with not less than three members including the Director of Public Instructions/Higher Education of the State concerned or his nominee and the subject expert(s). The Convener of the Inspection Team shall be a person not below the rank of Professor.

Inspection
Team.

(3) The Inspection Team shall take necessary steps to examine the request, inspect the site and submit its report on the need for the proposed College/Institution/course, the suitability of the site, feasibility of the plan submitted, the adequacy of physical and financial resources offered, library/laboratory facilities and submit the necessary recommendations to the Affiliation Committee. If the Affiliation Committee is satisfied with the report, it shall recommend the starting of the college/institution/course to the Academic Council.

Preliminary steps by the sponsoring Agency for provisional Affiliation.

(4) On receipt of permission to open a college/institution or to start a new course, the sponsoring agency shall make all necessary preparations. If a new college/institution is to be opened steps shall be taken to constitute a Governing Body and make appointment of the Principal/Director and other teaching and non-teaching staff as the case may be, in accordance with the provisions of the Statutes, Ordinances and Regulations. If a new course is to be started in any existing college/institution necessary arrangements in terms of physical facilities, Library and laboratory equipment shall be made along with appointment of teaching/non-teaching staff required for the purpose.

Application for Provisional Affiliation.

(5) The sponsoring agency, having made all arrangements and preparations to open a college/institution or to start a new new course(s) in the existing college/institution, shall inform the University forthwith about the appointment and about the fact that the college/institution/course has started not later than 15 days after the beginning of the academic session and shall make an application to the University for provisional affiliation.

Grant of Provisional
Affiliation.

(6) The affiliation Committee shall constitute either a fresh Inspection Team or send the same team (the one whose report permission was granted) to visit the college/institution on any working day in the first academic session latest by 31st October and submit a report in the form as may be prescribed in the Regulations. The Affiliation Committee after receiving the report will forward the same to the Academic Council along with its comments and observations. If the Academic Council is satisfied with the report, it may grant provisional affiliation for a period of three years only.

Affiliation may ordinarily be granted, in the first instance, to start general level courses. Provided that in the case of a college/institution sponsored by the Government or by an Educational Society of repute, affiliation may be granted to general and major level/professional courses simultaneously.

Renewal of Provisional
Affiliation.

4. 1) Provisional affiliation to a college/institution shall be granted for a period not exceeding three years at a time. Request for renewal shall be submitted in the prescribed form, six months before the expiry of the period of provisional affiliation.

(2) The Affiliation Committee shall constitute an Inspection Team to report on the request for renewal. The Inspection Team shall visit the college, review its progress and performance in general and submit a report along with its recommendations for renewal/withdrawal of provisional affiliation. The affiliation Committee, after reviewing the report, shall forward the same to the Academic Council along with its comments for necessary action.

Inspection

5. Every college/institution admitted to the privileges of the University shall be inspected as per the provision laid down in the statutes.

Permanent Affiliation.

5.(1) A College/institution which has been granted provisional affiliation, after the lapse of the stipulated period as prescribed in the Regulation, may apply for permanent affiliation which may be considered by the Executive Council on the basis of recommendation of the Academic Council.

Power to lay down new conditions.

(2) The Executive Council may, from time to time, lay down new conditions for affiliation (general or specific, regarding staff, buildings, equipments, library, laboratories, finance or other relevant matters) and specify the date by which these conditions must be satisfied failing which the college/institution may not be allowed to enjoy the privileges of the University.

Admission of Students.

(3) No student shall be admitted to any college/institution/ course of study before permission to start classes is granted by the University. Breach of this rule may entail refusal of permission.

affiliation and other fees.

(4) A sponsoring Agency seeking permission to open a new college/institution or start a new course(s), seeking provisional/permanent affiliation shall deposit the reserve fund & pay the fees as specified below:-

- (i) Fees for permission to open a new college/institution - Rs.15,000/-
- (ii) Fees for renewal of provisional affiliation/permanent affiliation. - Rs. 5,000/-
- (iii) Fees for permission to open a new course/subject. Rs. 3,000/-
- (iv) Annual enrolment fee @Rs.10/- per student on rolls as on the closing day of admission of the year.

(v) Reserve fund in long term fixed deposits in the name of the college for period of at least 5 years.

For general stream - Rs.4,00,000/-

For Major stream - Rs.5,00,000/-

Provided that the Govt.College/institutions are exempted from depositing the reserve fund.

Dissolution of a college/Institution/course of study.

6(1) No college/institution/course of study shall be dissolved or abolished by its 'Governing Body' or Advisory Committee without making prior arrangement for admission of its students in another affiliated college(s) and without making alternative arrangement for the employment of the permanent members of the staff and also without obtaining prior approval of the Academic Council, Executive Council of the ^{State} government, the University Grants Commission.

Provided that no college/institution/course of study shall be dissolved/abolished in the midst of an academic session.

5: 1: 2: (2)
ON THE COLLEGE DEVELOPMENT COUNCIL
(Section 26(1)(m) of the NEHU Act, 1973)

ANNEXURE-**A**

Existing	Revised
<p>1. There shall be established a College Development Council, to be known as Council hereinafter, in the North-Eastern Hill University.</p>	<p>1. A College Development Council, to be known as "Council" hereinafter shall be established in the North-Eastern Hill University.</p>
<p>2. Without prejudice to the generality of the Provisions of the Act, the Statutes, the Ordinances of the University, the objects of the Council shall be to provide a leadership role and generally extend help, guidance and advice to the Colleges admitted to the privileges of the University.</p>	<p>2. Without prejudice to the generality of the Provisions of the Act, the Statutes and the Ordinances of the University, the objects of the Council shall be to provide a leadership role and generally extend help, guidance and advice to the Colleges admitted to the privileges of the University.</p>
<p>3. The Council shall be the Principal advisory body to the Executive Council, through the Academic Council, in all matters relating to the affiliated colleges.</p>	<p>3. The Council shall be the Principal advisory body to the Executive Council, through the Academic Council in all matters relating to the affiliated colleges.</p>
<p>4. The Council shall consist of the following members:</p> <p>(i) Vice-Chancellor Chairman, Ex-Officio</p> <p>(ii) Pro-Vice-Chancellors Member, Ex-Officio</p> <p>(iii) Four teachers of the Post-Graduate Deptts. of which two will be from Sciences and two from Humanities to be nominated by the Vice-Chancellor.</p>	<p>4. The Council shall consist of the following members:</p> <p>(i) Vice-Chancellor, Chairman Ex-Officio</p> <p>(ii) Pro Vice-Chancellor(s). Member(s) Ex-Officio</p> <p>(iii) Four teachers of the Post-Graduate Deptts. of which two will be from Sciences and two from Humanities, to be nominated by the Vice-Chancellor.</p>

Contd/.../-

Existing	Revised
(iv) Six Principals of affiliated colleges, two each from Meghalaya, Nagaland and Mizoram by rotation, out of which at least four will be from Colleges having Degree Courses.	(iv) Four Principals of Member affiliated colleges, two each from each of the constituent states by rotation in order of seniority according to the date of establishment of the college
(v) Six teachers of the affiliated colleges, two each from Meghalaya, Nagaland and Mizoram to be nominated by the Vice-Chancellor.	(v) Four teachers of the affiliated colleges, to be nominated by the Vice-Chancellor
(vi) Director of Public Instruction/ Education of Meghalaya, Nagaland and Mizoram.	(vi) Director of Public Instruction/Higher Education of the State concerned
(vii) The Dean of Students' Welfare, NEHU.	(vii) The Dean of Students' Welfare, NEHU. Member Ex-Offi
(viii) The Director of Sports, NEHU.	(viii) The Director of Sports, NEHU -d
(ix) The Registrar, NEHU	(ix) The Registrar, NEHU -d
(x) The Finance Officer, NEHU	(x) The Finance Officer, NEHU -d
(xi) The Controller of Examinations, NEHU.	(xi) The Controller of Examinations, NEHU -d
(xii) The Librarian, NEHU	(xii) The Librarian, NEHU -d
(xiii) The Director, College Development Council, NEHU	(xiii) The Director College Development Council, NEHU Secret Ex-Offi

Term of Office of Members
 5. The term of office of members, other than Ex-Officio, shall be two years. They will be eligible for reappointment, except in cases where the appointment is by rotation, in which case they will wait for their turn to become members again.

5. The term of office of members, other than Ex-Officio, shall be two years. They will be eligible for reappointment, except in cases where the appointment is made by rotation.

Contd/.../-

Existing

Revised

6. Any vacancy arising due to illness, death or resignation or otherwise, shall be filled up as soon as convenient may be, and member or members so appointed shall continue in office for the residue of the term of office of the member or members concerned whose vacancy they fill up.

6. Any vacancy arising due to illness, death or resignation or otherwise, shall be filled up as soon as possible and the member(s) so appointed shall continue in office for the residue of the term.

7. Seven members of the Council shall form the quorum for the meetings of the Council.

7. One third of the actual membership of the Council shall form the quorum for the meetings of the Council.

8.(1) The Council shall meet at least twice in an academic year and meetings shall be convened by the Director, College Development Council, in consultation with the Vice-Chancellor. In the absence of the Vice-Chancellor, the Pro-Vice-Chancellor present, and in case of more than one Pro Vice-Chancellor, the senior most Pro Vice-Chancellor shall preside over the meetings of the Council. If there is no Pro Vice-Chancellor present then the members present will elect a member from among themselves to preside over that meeting.

8.(1) The Council shall meet at least twice in an academic year and meetings shall be convened by the Director, College Development Council, in consultation with the Vice-Chancellor. In the absence of the Vice-Chancellor, the Pro Vice-Chancellor present, and in case of more than one Pro Vice-Chancellor, the senior most Pro Vice-Chancellor shall preside over the meetings of the Council. If there is no Pro Vice-Chancellor present then the members present will elect a member from among themselves to preside over the meeting.

(2) A special meeting of the Council may be convened if a request to that effect is received by the Vice-Chancellor in writing from not less than six members of the Council giving a notice of at least 21 days.

(2) A special meeting of the Council may be convened if a request to that effect is received by the Vice-Chancellor in writing from not less than six members of the Council giving a notice of at least 21 days.

9. It shall be the duty of the Director, College Development Council, to keep record of the proceedings of the Council meetings and generally look after the day to day business of the Council.

9. It shall be the duty of the Director, College Development Council, to keep a record of the proceedings of the Council meetings and generally look after the day to day business of the Council.

Contd/.../-

Existing	Revised
functions of the Council	
10. The Council shall have the following functions, namely,	10 The Council shall have the following functions, namely,
(i) to provide a forum for consideration of various aspects of education in the affiliated colleges of the University with a view to continuously improve the general educational standards in the colleges;	(i) provide a forum for consideration of various aspects of education in the affiliated colleges of the University with a view to continuously improve the general educational standard in colleges;
(ii) to assess the development needs of the colleges;	(ii) assess the development needs of the colleges;
(iii) to help the affiliated colleges to prepare developmental projects which may be financed internally by the Institutions, or which may be presented to other funding agencies such as University Grants Commission, etc;	(iii) help the affiliated colleges to prepare developmental projects which may be financed internally by the Institutions, or which may be presented to other funding agencies such as the University Grants Commission, etc;
(iv) to submit projects to funding agencies on behalf of the affiliated colleges individually or collectively;	(iv) submit projects to funding agencies on behalf of the affiliated colleges individually or collectively;
(v) to assess periodically the physical facilities in the affiliated colleges with reference to the number of students and subjects taught and to make recommendations for their improvement;	(v) assess periodically the physical facilities in the affiliated colleges with reference to the number of students and subjects taught and make recommendations for their improvement;
(vi) to review the academic performance of affiliated colleges from time to time and to make suggestions for improvement;	(vi) review the academic performance of affiliated colleges from time to time and make suggestions for improvement;
(vii) to review the examination system and suggest innovations and improvement;	(vii) review the examination systems and suggest innovations and improvement;
(viii) to follow up the Inspection Reports on various colleges and to suggest corrective measures wherever necessary;	(viii) follow up the Inspection Reports on various colleges and suggest corrective measures wherever necessary;

Contd/.../-

Existing

Revised

(ix) to promote and encourage co-curricular activities in the colleges; and

(ix) promote and encourage co-curricular activities in the colleges;

(x) conduct surveys of all the affiliated colleges with a view to preparing and maintaining an upto-date profile on each college under the University, revising the existing facilities and identifying the needs and gaps that need to be filled for the development of colleges and make such information available to concerned bodies;

(xi) ensure close and continued contact and interaction between the academic faculties at the University teaching departments and at the colleges;

(xii) prepare Annual Report of the functioning of the CDC during the year and submit the same to the Executive Council and the University Grants Commission, and

(x) to perform such other functions as may be assigned to it by the Academic Council the Executive Council or the Vice-Chancellor.

(xiii) Perform such other functions may be assigned to it by the Academic Council, the Executive Council or the Vice-Chancellor.

11. The office of the Council Secretariat shall be located at Shillong.

11. The office of the Council shall be located at Shillong.

12. There shall be a Standing Committee of the Council for each of the campuses of Nagaland and Mizoram which will be responsible to the Council

deleted

Provided the Standing Committee shall function in relation to the area under its jurisdiction, within the general functions as enumerated under Clause 10.

deleted

	Existing		Revised
Composition of the Standing Committee	13(1) The Composition of the Standing Committee shall be as follows:		deleted
	(i) Pro Vice-Chancellor of the Campus concerned	Chairman Ex-Officio	deleted
	(ii) Director of Public Instruction/Education of the State, Union Territory concerned	Member Ex-Officio	deleted
	(iii) Director, College Development Council	Member Ex-Officio	deleted
	(iv) Two teachers from the Departments of the Campus concerned, not below the rank of a Reader, to be nominated by the Vice-Chancellor	Member	deleted
	(v) Two Principals of the affiliated colleges from the State or Union Territory concerned, to be nominated by the Vice-Chancellor.	Members	deleted
	(vi) Two teachers from the affiliated colleges of the State or Union Territory concerned, to be nominated by the Vice-Chancellor	Members	deleted
	(vii) Regional Director, College Development Council.	Member Secretary	deleted
	(2) If there is no Pro Vice-Chancellor or in his absence, the Standing Committee shall elect a member from amongst themselves to be the Chairman of that meeting.		deleted
Term of office of members of Standing Committee	14. The term of office of members, other than Ex-Officio, shall be two years, They shall be eligible for reappointment.		deleted
Filling up of Casual Vacancies	15. The filling up of casual vacancies will be the same as in the case of the Council as provided in Clause 6 of this Ordinance.		deleted

Contd/.../-

Existing

Revised

un 16. Four members shall form
a quorum for the meetings of the
Standing Committee.

deleted.

val of 17. Any difficulty arising in
difficulties giving effect to or interpretation
of any or all the provisions of this
Ordinance, shall be referred to the
Vice-Chancellor whose decision
thereon shall be final.

12. Any difficulty arising
in giving effect to or inter-
preting any of the provisions
of this Ordinance, shall be
referred to the Vice-Chancellor
whose decision thereon shall
be final.

ORDINANCE ON THE MANAGEMENT OF COLLEGES/INSTITUTIONS OTHER THAN THOSE MAINTAINED BY THE UNIVERSITY.

(Under Section 26(P) of the NEHU Act).

Governance of
College/Institu-
tion.

1. (1) Every College/Institution shall have a regularly constituted Governing Body of its own.

Provided that a College/Institution maintained by the Government shall, however, have an Advisory Committee.

Constitution

- (2) The Governing Body/Advisory Committee shall consist of not less than eleven members including the President and shall consist of the following:
- (i) The President, to be appointed by the Executive Council of the University in consultation with the state Government concerned,
 - (ii) Two representatives of the State Government concerned including the Director of Public Instruction/Higher Education of the State concerned or his nominee,
 - (iii) One eminent educationist to be nominated by the state Government concerned,
 - (iv) Two prominent citizens to be nominated by the sponsors of the College/Institution, if any,
 - (v) Two members to be nominated by the Executive Council of the University,
 - (vi) Two teacher representatives of the College/Institution. The teachers representatives shall become members of the Governing Body/Advisory Committee by rotation according to seniority. Provided that at least one of the representatives shall be from among those with more than 10 years of service and one from among those with less than 10 years of

service . If however, eligible candidate are not available in one of these categories, both the representatives may be taken from the other.

- (vii) Member Secretary : The Principal/Director of the College/Institution shall be the Member Secretary of the Governing Body/Advisory Committee.

Note: For the purpose of this clause "Teachers" means permanent teachers of the College/Institution concerned.

Treasurer

- (3) The Governing Body/Advisory Committee shall appoint a Treasurer from among its own members to supervise the receipts and expenditure of the College/Institution who shall be responsible for the proper maintenance of its accounts. Further the Principal/Director along with the Treasurer shall jointly operate the Bank Account(s) of the College/Institution.

Bursar

The Governing Body/Advisory Committee on the recommendation of the Principal shall appoint a Bursar who shall be a member of the teaching staff and who shall assist the Principal in the maintenance of accounts and in the day-to-day financial affairs of the College. The term of the Bursar shall be a period of two years only. No teacher shall hold office of the Bursar for two consecutive terms.

Term of members (4)

Members of the Governing Body/Advisory Committee shall hold office for a period of two years only except the Principal/Director.

Provided that no person shall be a member for more than two consecutive terms. Further no member of the Governing Body/Advisory Committee shall be a member of any other Governing Body/Advisory Committee Simultaneously under the University.

Quorum

- (5) The quorum for the meeting of the Governing Body/Advisory Committee shall be one-third of the total membership or five members whichever is more provided that the quorum must consist of the Principal/Director and at least one representative from the University.

Meeting

- (6) The Governing Body/Advisory Committee shall meet at least twice a year and a copy of its minutes after confirmation shall be forwarded to the Registrar of the University.

Powers & Functions

- (7) The Governing Body/Advisory Committee shall perform the following functions:
- (i) Maintain general supervision on the affairs of the college/institution,
 - (ii) Organise teaching in the college/institution and determine its teaching requirements,
 - (iii) Prescribe rules for admission of students both resident & non-resident, as per guidelines prescribed by the University,
 - (iv) Submit to the Government (in case of a non-Government colleges/institution), estimate of income and expenditure and incur expenditure within the limits fixed in the budget.
 - (v) Appoint both teaching and non-teaching staff of the college/institution (in case of non-Govt. College/institution only) with the approval of the Govt. concerned,
 - (vi) Define duties and responsibilities of both teaching and non-teaching staff (in the case of a non-Govt. College/Institution only),
 - (vii) Grant leave (except casual leave which shall be granted by the Principal/Director), to both teaching and non-teaching staff (in the case of a non-Government College/Institution only),
 - (viii) Perform such other function as may be assigned to it by the University or the Government concerned from time to time

Staff Council

8. (1) There shall be a Staff Council in every College/Institution.
- (2) All the members of the teaching staff, The Librarian and the Director of Physical Education shall constitute the staff council.
- (3) The Principal/Director shall be the ex-officio chairman of the staff Council.
- (4) The Council shall elect its Secretary, who shall hold office for a term of one year. The Secretary may be re-elected for a second term but no person shall hold office of the secretary for more than two consecutive terms.
- (5) Subject to the provisions of the Act, the Statutes and the Ordinances of the University, the Staff Council shall perform the following functions:
 - (i) Prepare time-table for the College/Institution concerned;
 - (ii) Allot extra-curricular work to teachers not involving payment or remuneration,
 - (iii) Organise extra-curricular activities,
 - (iv) Lay down guidelines for purchase of library books and laboratory equipments in consultation with the appropriate departments,
 - (v) Organise admissions of students
 - (vi) Subject to the provision of the Act, the Statutes and the Ordinances of the University, the Staff Council shall make recommendations in respect of the following:
 - (a) Create new teaching posts in various departments and suggest expansion of existing departments, if necessary.
 - (b) Formulate admission policy within the frame work of the policy laid down by the University,
 - (c) Formulate guidelines for hostel accomodation and welfare of students in consultation with appropriate student Bodies of the College/Institution,

- (d) Formulate guide-lines regarding discipline of students,
- (e) Formulate policy to select teachers to participate in seminar/conferences and to grant financial assistance to teachers.
- (vii) The Staff Council shall function through its Committees. Ordinarily no person shall be member of more than two committees at a time and no person shall hold office as a member of a Committee for more than two consecutive terms.
- (viii) The Principal/Director shall have the right to be present and speak at any meeting of any Committee.
- (ix) Each Committee shall have a convener appointed by the Staff Council who shall convene the meetings of the Committee, and the minutes of the meetings shall be prepared and maintained by him.
- (x) The decisions of the Committee shall be reported to the subsequent meeting of the staff Council for ratification, wherever necessary.
- (xi) The Principal/Director shall implement all decisions of the staff Council. If however an emergency arisen which requires immediate action to be taken, the Principal shall take such action as he deems necessary but shall report the same to the next meeting of the staff council for ratification.
- (xii) The rules relating to the conduct of meetings of the staff council shall be in accordance with the Regulations laid down in this behalf.

On Service Conditions
Classification
Qualifications and
Payscale of Teachers,
including Principal/
Director, Vice-Principal,
Librarian & Director of
Physical Education.

- (1) The members of the teaching Staff of a College/Institution shall be designated as follows.
- (i) Principal/Director
 - (ii) Vice-Principal
 - (iii) Lecturer including senior/selection grade/Reader and all such categories of teachers as recommended by the UGC from time to time for the affiliated Colleges/Institutions.

- (iv) College Librarian
- (v) Director of Physical Education.

Qualifications(2) The qualification of Principal/Director, Vice-Principal, Lecturer, Librarian and the Director of Physical Education shall be as per the UGC norms formulated from time to time for the affiliated colleges.

Pay and other Allowances(3) The pay scales of the Principal/Director Vice-Principal, Lecturer, Librarian and Director of Physical Education shall be as per the recommendation and guidelines of the University Grants Commission for affiliated colleges.

Retirement Benefits(4) The Principal/Director, Vice-Principal, Lecturer, Librarian and Director of Physical Education shall be eligible for retirement benefits such as pension including family pension/Contributory Provident Fund gratuity, leave encashment and such other benefits as may be recommended by the UGC from time to time.

Note : The age of superannuation of such members of the teaching staff shall be governed either by the U.G.C. norms or by the norms fixed state Govt.concerned for the purpose.

Leave to the members of Teaching staff (5) The following kinds of leave shall be admissible to the permanent members of the teaching staff.

(i) Casual and Special Casual Leave (not exceeding fifteen days each in a year).

(ii) Earned Leave, Half pay Leave and commuted leave.

Notes: Earned leave shall be 1/30th of actual service including vacation plus 1/3rd of the period if any, during which one is required to perform duty during vacation. Earned Leave at the credit of a teacher shall not accumulate beyond 240 days. The maximum earned leave that may be sanctioned at a time shall not exceed 120 days.

Half pay leave admissible to a permanent teacher shall be 20 days for each completed year of service. Such leave may be granted on medical certificate, private affairs or for academic purpose.

Commuted leave not exceeding half the amount of half-pay leave due may be granted on medical certificate to a permanent teacher.

(iii) Extra Ordinary Leave and Leave not due—A permanent teacher may be granted extraordinary leave when no other leave is available. This leave shall not be granted for more than one calendar year in the entire service career of a teacher.

(iv) Study leave maternity leave, and quarantine leave:

Study leave with full pay may be granted to a permanent whole time teacher with not less than three years of continuous service to pursue a special line of study or research. The period of such leave shall not exceed three years in the entire service career of a teacher.

A women teacher with less than two surviving Children may be granted Maternity leave for a period of 90 days from the date of ^{Commencement of the date of} delivery whichever is earlier. Maternity leave may also be granted in case of miscarriage including abortion subject to the condition that the leave applied for does not exceed ^{in all or does not extend beyond six weeks} six weeks/ of the date of miscarriage and the application is supported by a Medical Certificate.

During such leave she shall be paid leave salary equal to the pay drawn immediately before proceeding on leave.

Recruitment of the members of the Teaching Staff.

10(1) All vacancies of teaching posts shall be filled up through advertisement and properly constituted Selection Committee. The vacant posts shall be advertised at least in one local news paper and one national daily.

Screening of Applications.

(2) The Committee to screen the applications for the posts of Principal/Director, Vice-Principal shall be as follows:

- (i) Chairman of the Governing Body.
- (ii) One nominee of the University.
- (iii) Principal/Director (for the post of Vice-Principal only).

Notwithstanding anything contained in these ordinances, the Governing Body shall be free to recommend the names of those who may not have applied to be considered for the post of Principal/Director of the College/Institution.

The committee to screen the applications for the post of lecturer shall be as follows:

- (i) Principal/Director.
- (ii) One nominee of the Governing Body.
- (iii) Seniormost teacher of the faculty concerned.

The committee to screen the applications for the post of Librarian shall be as follows;

- (i) Principal/Director.
- (ii) One nominee of the Governing Body.
- (iii) The University Librarian or his nominee.

The committee to screen the applications for the post of Director of Physical Education shall be as follows:

- (i) Principal/Director.
- (ii) One nominee of the Governing Body.
- (iii) One nominee of the University.

Provided that this clause will not apply to screening of applications for recruitment to Govt.Colleges/Institutions.

Selection Committee.

11. (1) The selection committee for the post of Principal/Director, Vice Principal shall be constituted as follows:

- (i) Chairman of the governing body.
- (ii) Two nominees of the University.
- (iii) Director of Public Instruction or his nominee, of the State Govt. concerned.
- (iv) One nominee of the sponsors of the College if any.

However, the Selection Committee may consider the name of persons who may not have applied for the post.

Provided that in the case of Govt. College, the Selection Committee for the purpose shall include at least one nominee of the University.

Selection Committee for the post of lecturer.

(2) The Selection Committee for lecturer shall be constituted as follows:

- (i) Chairman of the Governing Body.
- (ii) the Head of the University Deptt/Dean of the School concerned.
- (iii) one subject expert to be nominated by the Vice-Chancellor, from ^{among} the teachers of the University,
- (iv) the Director of Public Instruction/Higher Education of the State Govt. concerned or his nominee.
- (v) the seniormost teacher in the subject of the college concerned.
- (vi) The Principal/Director.

Provided that the Selection Committee for recruitment teachers in the Govt. Colleges shall have the Head of the University post graduate deptt. of the subject concerned as a member.

Selection Committee for the post College Librarian.

(3) The Selection Committee for the College Librarian shall be constituted as follows :

- (i) The Chairman of the Governing Body
- (ii) University Librarian,
- (iii) the Head of the Department of Library Science of the University,
- (iv) the Director of Public Instruction/Higher Education of the State Govt. concerned or his nominee.
- (v) The Principal/Director, Provided that the selection committee for the post of Librarian in Govt. colleges shall have the University Librarian as a member.

Selection
Committee for
the Post of
Director of
Physical Education.

The selection Committee for the Director of Physical Education shall be constituted as follows:

12. (i) Chairman of the Governing Body
- (ii) Director of Physical Education/Sports of the University or the Vice-Chancellor's nominee.
- (iii) The Director of Public Instruction/Higher Education of the State Govt. concerned. or his nominee.
- (iv) one nominee of the University,
- (v) the Principal/Director.

Suspension
Termination &
Dismissal of
the members of
Teaching Staff

13. No decision regarding the suspension, termination or dismissal of a teacher shall be taken by the Governing Body of the College/ Institutions unless it has been approved by 2/3rds majority of the actual members of the Committee constituted for the purpose as under.

- (i) The Chairman of the Governing Body
- (ii) two nominees of the University
- (iii) Director of Public Instruction/Higher Education of the State Government concerned.
- (iv) One representative of the Staff Council
- (v) Principal/Director

Provided further that such decisions shall not be taken by the Governing Body without the approval of 2/3rds of its total members.

This clause shall not however be applicable to teachers working in Govt. Colleges/Institutions.

Service Conditions
of the Non-Teaching
Staff of the College/
Institutions.

14.(1) The non-teaching staff of the college/ institution shall be governed as regards to qualifications, mode of recruitment, salary pensionary benefits and other service conditions as per the rules applied to their counter-parts in the State Govt. concerned

Suspension/termination/
Dismissal of the non-
teaching staff.

(2) No decision regarding the suspension, termination or dismissal of any non-teaching staff shall be taken by the Governing Body of the College/Institutions unless it has been approved by 2/3rds majority of the actual members of the Committee constituted for the purpose as under.

- (i) The Chairman of the Governing Body
- (ii) two nominees of the University
- (iii) Director of Public Instruction/Higher Education of the State Government concerned
- (iv) One representative of the Non-Teaching Staff.
- (v) Principal/Director

Provided further that such decisions shall not be taken by the Governing Body without the approval of 2/3rds of its total members.

This clause shall not however be applicable to staff working in Govt. College/Institutions.

Further, notwithstanding anything contained in these Ordinance, no regular employee (whether teaching or non-teaching) shall be removed from service of the College/Institution without having been given three month's notice in advance in writing or three months' pay in lieu thereof.

Resignation 15

No regular employee (whether teaching or non-teaching) of a college/institution shall be allowed to resign from service without having given three months' prior notice or paying three months' salary in lieu thereof.

However, the Governing Body of the College/ Institution may decide to waive the condition of three months notice or three months' salary as per as it relates to resignation.

Hostel Facilities For Students.

16. The colleges/institutions shall maintain hostels as may be necessary for the students.

Other facilities for students:

17. Colleges/Institutions shall provide opportunities for co-curricular and extra-curricular activities for all-round development of the students.

5:2 - Syllabus etc.

(i) Revised syllabus for B.Sc in Chemistry

The Head, Department of Chemistry, NEHU, Shillong has submitted the revised syllabus for B.Sc Chemistry after it has been discussed in the BUGS meeting in Chemistry. The revised syllabus is placed at Annexure-13 for consideration of the Council.

ANNEXURE-'A'B.Sc. 3 Year Integrated Degree
Course in Chemistry

	<u>Theory</u>	<u>Practicals</u>	<u>Total Marks</u>
B.Sc. (General)	280	120	400
B.Sc. (Major)	560	240	800

B.Sc. (General)

<u>Year</u>	<u>Paper</u>	<u>Theory</u>	<u>Practicals</u>	<u>Total Marks at the end of year</u>
I	I	70 (Inorganic, Organic, Physical)		70
II	II	47 (Inorganic)	Paper V (General)	200
	III	47 (Organic)	60 (Inorganic)	
	IV	46 (Physical)		
III	VI	70 (Inorganic, Organic, Physical)	Paper VII (General) 30 + 30 (Physical and Organic)	130
		280	120	400

For a paper having three parts and each part containing two units, three questions are to be set from Units 1 and 2, out of which students have to answer any two of those three questions. For a paper having four units, three questions are to be set from Units 1 and 2, and three questions are to be set from Units 3 and 4. Out of these, students have to answer any two questions from Units 1 and 2, and any two questions from Units 3 and 4.

B.Sc. (Major)

Year	Paper	Theory	Practicals	Total Marks at the end of year
I	I	70 (Inorganic, Organic, Physical)	-	140
	VIII	70 (Inorganic, Organic, Physical)	-	
II	II	47 (Inorganic)	Paper-V (Major) 90 (Inorganic)	300
	III	47 (Organic)		
	IV	46 (Physical)		
	IX	70 (Inorganic, Organic, Physical)		
III	VI	70 (Inorganic, Organic, Physical)	Paper VII (Major) 75 (Organic)	360
	XI	46 (Inorganic)	Paper-X (Major) 75 (Physical)	
	XII	47 (Organic)		
	XIII	47 (Physical)		
		560	240	800

NOTES

I. INORGANIC CHEMISTRY

1. GROUP DISCUSSION includes the following:

- (a) Position in the periodic table (long form);
- (b) electronic configuration;
- (c) Physical properties (e.g., trends of atomic and ionic radii, electronegativity, ionization potential, electron affinity);
- (d) oxidation states - explanation from electronic configuration;
- (e) peculiarity of any element in the group; and
- (f) chemical property (e.g., oxides, oxyacids, hydrides, chlorides).

2. STUDY means the following:

Preparation, important reactions and uses.

II. ORGANIC CHEMISTRY

All reactions should be discussed with emphasis on reaction mechanisms.

III. PHYSICAL CHEMISTRY.

Numerical problems based on all the topics must be covered.

PAPER - I

Max.Marks: 70

Time : 3 hours

Each part has to be answered in separate answer books

PART-A : INORGANIC CHEMISTRY

24 Marks.

Unit 1
-----1. Structure of Atom-I

Brief revision of cathode rays and discovery of the electron; mass and charge of the electron; Rutherford's model of atom; positive rays; x-rays and their production; Moseley's work on the x-ray spectra of elements; elementary idea of line spectra; Bohr's atomic model and hydrogen spectrum; Sommerfeld's modification; elementary ideas on the wave properties of the electron; quantum numbers and their significance; Pauli's exclusion principle; Aufbau principle; Hund's rule; electronic configuration of the atom; shapes of s, p and d orbitals.

2. Nucleus and Radioactivity-I

Brief revision of radioactivity; composition of the nucleus-proton-electron theory of the nucleus; fundamental particles (electron, proton, neutron, positron, neutrino and mesons); nuclear binding energy, mass defect and packing fraction; half-life and average life period; important applications of radioactive isotopes; unit of radioactivity; group displacement law; balancing of nuclear reactions; artificial radioactivity; elementary ideas of fission, fusion, controlled fission reactions and atomic energy.

3. Periodic Classification of Elements-I

Brief revision of Mendeleef's periodic classification; Bohr's Table ---- long form of the periodic table; classification in blocks; types of elements on the basis of electronic configuration, periodic properties----atomic and ionic radii, ionization potential, electron affinity, electronegativity, diagonal relationship.

4. Chemical Bonding-I

Brief revision of chemical bonding; hybridization of orbitals (s and p only); electronic structures and shapes of covalent molecules (NH_3 , H_2O , BeF_2 , BF_3 , SnCl_2 , O_3 , H_2S , CO_2 , BO_3^{3-}).

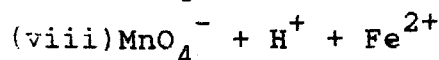
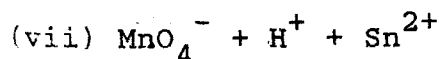
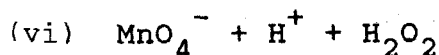
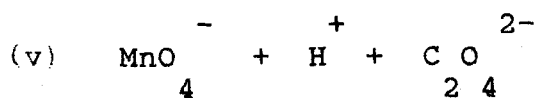
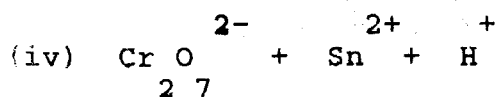
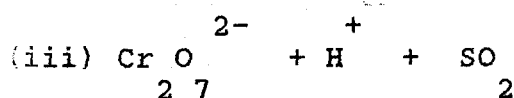
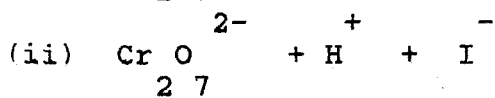
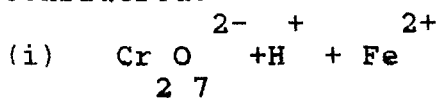
5. Atomic weight (Relative Atomic Mass)

Chemical and physical scales of atomic weights; the unified C-12 scale; atomic mass unit; determination of atomic weights (Stas' and Richard's methods).

Unit -21. Redox Reactions:

Oxidation and reduction in terms of electron transfer; concept of oxidation number; common oxidants and reductants; redox reactions, calculation of oxidation number, calculation of equivalent weight of oxidants and reductants.

Balancing of redox reactions by ion-electron methods and by oxidation number method. The following reactions are to be considered:



- (ix) $\text{MnO}_2 + \text{H}_2\text{SO}_4 + \text{FeSO}_4$
 (x) $\text{Sn}^{2+} + \text{Fe}^{3+}$
 (xi) $\text{S}_2\text{O}_3^{2-} + \text{I}_2$
 (xii) $\text{HNO}_3 + \text{H}_2\text{S}$
 (xiii) $\text{H}_2\text{O}_2 + \text{KI} + \text{HCl}$
 (xiv) $\text{C} + \text{HNO}_3$
 (xv) $\text{Fe}^{3+} + \text{I}^-$
 (xvi) $\text{Cu} + \text{NO}_3^- + \text{H}^+$ (conc. HNO_3)
 (xvii) $\text{BiO}_3 + \text{Mn}^{2+} + \text{H}^+$
 (xviii) $\text{P} + \text{Cu}^{2+} + \text{H}_2\text{O}$
 (xix) $\text{P} + \text{HNO}_3$
 (xx) $\text{C} + \text{H}_2\text{SO}_4$

2. Acid-Base Concept

Arrhenius concept; solvent system concepts; Bronsted-Lowry concept; strengths of acids; relative strengths of acids and bases.

3. Hydrogen

Position in the periodic table; isotopes of hydrogen; atomic hydrogen; ortho and para hydrogen; heavy water; hydrogen peroxide (important reactions and structure).

4. s-block Elements of Group I A (ALKALI METALS)

Group discussion; extraction of lithium from silicate ores; study of the following compounds--- lithium hydride, sodium thiosulphate, sodium peroxide, potassium chlorate, potassium cyanide, potassium bromide, potassium iodide, potassium thiocyanate, potassium perchlorate.

5. s-Block Elements of Group II A (ALKALINE EARTH METALS)

Group discussion; study of the following compounds --- calcium carbide, nitrolim, superphosphate of lime, barium chloride, lithopone.

PART B: ORGANIC CHEMISTRY

23 Marks.

Unit 11. Bonding in Organic Molecules

Nature of the covalent bond and its orbital representation (simple molecules as listed below); hybridization of orbitals; implications of hybridization on the concept of bond length, bond energy, bond angles and shapes of molecules with the following examples:

(i) CH_4 , H_2O , CH_3 , RNH_2 ; (ii) ethylene, CH_2 , BF_3 ,

AlCl_3 , carbonyl compounds; and (iii) acetylene, R-CN , allene.

2. Bronsted-Lowry and Lewis concepts of acids and bases; electronegativity; polarity of the bond and dipole moment; inductive effect and its role in halogenated acids; hydrogen bonding and its effect on boiling point and solubility of organic molecules.

3. Conjugation, resonance, hyperconjugation (propene and toluene); homolytic and heterolytic bond cleavage; electrophiles, nucleophiles, carbocations, carbanions, free radicals and their stability (with simple examples).

4. Stereochemistry of Organic Molecules

Classification of stereoisomerism --- configurational and conformational isomerism; configurational isomerism --- geometrical isomerism, configuration of geometrical isomers, E and Z systems of nomenclature, geometrical isomers of oxime; optical isomerism --- optical activity, enantiomers, chiral carbon atoms, elements of symmetry.

Unit 21. Alkanes

Introduction; chemical reaction (oxidation, cracking, aromatization); reaction profile, activation energy, transition state and intermediates; mechanism of free radical halogenation (chlorination of methane), nitration and sulphonation.

2. Cycloalkanes

General method of preparation of cycloalkanes (up to

cyclohexane) and their reactions with halogens, HX and catalytic reduction; Bayer's strain theory --- its limitations and modification.

3. Alkenes and Alkynes

Introduction to alkenes; chemical reactivity, mechanisms of hydrogenation, bromination, hydration, halohydrate, hydroboration and Markonikoff's rule; mechanisms of radical addition, peroxide effect, epoxidation, ozonolysis, polymerization.

Introduction to alkynes; chemical reactivity; electrophilic addition reactions (halogenation, hydration, HX, HOX), ozonolysis, alkynide (Na, Cu and Ag) and polymerization; comparative acidity of ethane, ethene and ethyne.

4. Aromatic hydrocarbons and Aromaticity

Introduction; structure of benzene; valence bond and molecular orbital picture of benzene ring; resonance energy; aromaticity; Huckel's $(4n + 2)$ rule and its applications to simple molecules; electrophilic substitution reactions in aromatic hydrocarbons; effect of substituent groups (activating groups, deactivating groups and directive influence) using the following examples---nitration, sulphonation, halogenation, formylation, Friedel Crafts alkylation and acylation.

PART C: PHYSICAL CHEMISTRY

23 Marks

Unit 1

1. Gaseous State-I

States of matter; kinetic theory of gases; assumptions and derivation of an expression for the pressure exerted by a gas; deduction of gas laws; dimensions of the gas constant (SI units); deviations from ideal behaviour; causes of deviations; van der Waals equation of state and its limitations; continuity of state; principle of liquefaction of gases and critical phenomena; critical constants; principle of corresponding states; vapour density; abnormal vapour density; determination of molecular weight by limiting density.

2. Dilute Solutions

Colligative properties; osmosis and osmotic pressure (determination by Pfeffer's and by Berkeley-Hartley methods); isotonic solutions; lowering of vapour pressure; Raoult's law; Henry's law; elevation of boiling point; depression of freezing point; determination of molecular weight based on colligative properties; van't Hoff's law of dilute solutions and its limitations; analogy between ideal gases and dilute solutions; relation between colligative properties.

Unit 2

1. Thermodynamics - I

Definitions of work function, pressure, volume, enthalpy; first law of thermodynamics; heat capacities at constant pressure and constant volume ($C_p - C_v = nR$, derivation

is required); Kirchoff's equation (derivation is required); thermodynamic definition of an ideal gas; reversible and irreversible processes; adiabatic and isothermal processes; Joule-Thomson coefficient and inversion temperature.

2. Thermochemistry

Exothermic and endothermic reactions; explanation of sign conventions; heat of reaction; heat of formation; heat of combustion; heat of neutralization; heat of solution; heat of dilution; Hess's law of constant heat summation.

PAPER -II

INORGANIC CHEMISTRY

Time: 2 hours.

Max.Marks : 47

Unit 1

1. p-Block Elements of Group III A (BORON FAMILY)

Group discussion; study of aluminium, lithium aluminium hydride; analytical applications of borax.

2. p-Block Elements of Group IV A (CARBON FAMILY)

Group discussion; study of the following compounds-- silicon tetrafluoride, silicon tetrachloride, trimethylsilyl chloride, tetramethyl silane, fluorosilicic acid, silica, carborundum, metasilicic acid, lead tetraacetate, lead dioxide, sugar of lead.

3. p-Block Elements of Group V A (NITROGEN FAMILY)

Group discussion; study of the following compounds-- hydrazine, hydrazoic acid, hydroxylamine, hyponitrous acid, nitrous acid; oxides and oxyacids of phosphorous; chlorides and oxychlorides of phosphorous.

4. p-Block Elements of Group VI A (CHALCOGENS)

Group discussion; study of the following compounds-- oxides and oxyacids of sulphur (formulae and electronic structure only); sulphur hexafluoride, thionyl chloride, sulphuryl chloride, sulphur monochloride, chlorosulphonic acid; selenium dioxide.

Unit 2

1. Elements of Group VIII B (FERROUS METALS)

Comparative study of iron, cobalt and nickel; metallurgy of nickel (Mond's process); separation of cobalt and nickel by potassium cyanide method; study of the following compounds -----
Mohr's salt, sodium nitroprusside, nickel tetracarbonyl, potassium ferrocyanide, potassium ferricyanide, hexamine cobaltic chloride, sodium cobaltinitrite.

2. d-Block Elements of Group I B (COINAGE METALS)

Group discussion; cyanide process for the extraction of gold; separation of copper and cadmium by potassium cyanide method; study of the following compounds --- cuprous chloride, aurous chloride; auric chloride; fulminating gold; uses of silver salts in photography; purple of cassius.

3. d-Block Elements of Group II B (ZINC FAMILY)

Group discussion; peculiarities of mercury; study of the following compounds --- Millon's base, Nessler's reagent; reactions of ammonia with mercuric and mercurous compounds.

4. d-Block Elements of Group VI B (CHROMIUM FAMILY)

Metallurgy of chromium; study of the following compound ---- chromium(III) oxide, chromium(VI) oxide, potassium dichromate, potassium chromate, chromyl chloride, chromium(II) chloride, chromium(III) chloride, chrome alum, blue chromium peroxides; uses of potassium dichromate as an analytical reagent.

5. d-Block Elements of Group VII B (MANGANESE FAMILY)

Extraction of manganese from pyrolusite; study of the following compounds --- potassium permanganate, manganese dioxide, manganese sulphate; uses of potassium permanganate as an analytical reagent.

6. p-Block Elements of Group VII A (HALOGEN FAMILY)

Peculiarities of fluorine; study of the following compounds ---- oxides and oxyacids of chlorine, iodic and periodic acids; potassium bromate; potassium iodate.

Unit 31. Atomic Structure-II

Determination of e/m of electron (Thomson's method); determination of electronic charge (Milliken's experiment); photoelectric effect; dual nature of electron; Planck's quantum theory; Uncertainty principle; Schrodinger's wave equation; significance of and (deduction not required).

2. Periodic Classification of Elements-II

Bond lengths of covalent molecules and atomic radii of bonded atoms; oxidation states; trends of chemical properties of oxides and hydrides.

3. Chemical Bonding-II

Elementary concept of lattice energy; energy consideration of the sodium chloride molecule; formation of covalent bond (energy considerations); elementary concept of the Heitler and London theory; hybridization in inorganic molecules ---- sp^3 and sp^3d^2 (suitable examples of each).

4. Chemical Bonding-III

Concept of additivity of covalent radii; ionic distortion and partial covalent character of ionic compounds----- application of Fajan's rule hydrogen bonding and its application; clathrate compounds; dipole-dipole interaction; ion-dipole and dipole-induced dipole interaction; elementary concept of metallic bond.

5. Nucleus and Radioactivity-II

Neutron-proton ratio in a nucleus and its implications; radioactive equilibrium; radioactive constant; principles of separation of isotopes-- gaseous diffusion method, method of electrolysis, electromagnetic method; theory of radioactive disintegration; differences between chemical reactions and nuclear reactions, isotonic labelling of compounds.

6. Study of the following: Active nitrogen, activated charcoal, allotropy, isomorphism, alloys and amalgams; principles of iodometry and iodimetry; resins (cationic and anionic exchange resins), molecular sieves.

Unit -4

1. Coordination Chemistry-I

Explanation of the following terms: double and complex salts, effective atomic number, ligand, chelation and coordination number; stability constants; perfect and imperfect complexes; inner-sphere and outer-sphere complexes; naming of coordination compounds; Werner's theory of coordination compounds; electronic interpretation of coordination compounds; Sidgwick theory; stereo-chemistry of 4- and 6- coordination complexes; sd^3 , sp^3d^2 hybridization with reference to iron, cobalt and nickel.

2. Noble Gases:

a) Position of Noble gases in the periodic table; natural sources of noble gases; separation and isolation of helium, neon and argon from liquid air.

b) Study of the following compounds:-

XePtF_6 , XeF_2 , XeF_4 , XeF_6 , XeO_3 and XeOF_4 .

3. Halogens

Study of interhalogen and pseudohalogen compounds.

PAPER-III

ORGANIC CHEMISTRY

Max. Marks :47

Time : 2 hours.

Unit-11. Alkyl and Aryl Halides

(a) Alkyl halides: Introduction; chemical reactivity; nucleophilic substitution reactions (SN^1 , SN^2 and SN^i), reactions of alkylhalides with different nucleophiles (hydrogenolysis, aqueous and alcoholic KOH, NH_3 , KCN, $AgNO_3$, KNO_2 , $RCOOAg$, $RONa$, Mg and Li), elimination reactions, (E_1 and E_2); reactions of Grignard reagents with water and carbon dioxide.

(b) Aromatic halogen compounds: Introduction; preparation and chemical reactivity; nuclear and side-chain halogenations (one example each); electrophilic substitution reactions; nucleophilic aromatic displacement reactions.

2. Alcohols

Introduction; classification of alcohols; methods of preparation including hydroboration; chemical reactivity; distinction between primary; secondary and tertiary alcohols (Victor Meyer's test); industrial preparation of ethyl alcohol (from molasses and starch); short notes on methylated spirit, absolute ethyl alcohol and power alcohol; preparation and chemical reactions of glycol and glycerol.

3. Phenols

Preparation, physical properties and acidic character of phenols; chemical reactions of phenols including Kilbe's reaction, Riemeier Tiemann reaction, nitration and phenol-formaldehyde resin.

Unit-21. Aldehydes and Ketones

Introduction; methods of preparation of aldehydes and ketones (both aliphatic and aromatic); chemical reactivity of carbonyl groups; nucleophilic addition and addition-elimination reaction (with HCN, $NaSO_3H$, NH_2OH , hydrazine, phenylhydrazine, $NH_2CONHNH_2$) and Cannizzaro reaction; acidity of α -hydrogen in carbonyl

compounds and formation of enolates; aldol condensation; Perkin reaction and reactions with Grignard's reagents; benzoin condensation; reduction and oxidation reactions (Clemensen and Wolff-Kishner reductions).

2. Carboxylic acids and their derivatives

Introduction; effect of substituents on the acidity of carboxylic groups; chemical reactivity; methods of preparation and reactions of oxalic acid, succinic acid and citric acid, preparation and properties of acetyl chloride, acetamide and ethyl acetate.

Unit-3

1. Coal, Petroleum and Petrochemicals

Origin of coal, carbonization of coal, coal gasification; coal tar based chemicals; mode of formation of petroleum; cracking, knocking, octane number, flash point, L.P.G.; synthetic petrol and petrochemicals.

2. Active Methylene Compounds

Active methylene group; tautomerism; difference between tautomerism and resonance (Keto-enol tautomerism); use of the following compounds in organic synthesis - ethyl acetoacetate, diethyl malonate, cyano ethyl acetate, acetyl acetone and nitromethane.

Unit-4

1. Amines

Various methods of preparation of amines; basicity and effect of substituents; chemical reactivity (acylation, action of nitrous acid, action of CO_2 , carbylamine reaction, condensation with carbonyl groups, ring substitution); distinction between primary, secondary and tertiary amines; separation of primary, secondary and tertiary amines.

2. Diazo compounds

Preparation and stability of diazonium compounds (aliphatic and aromatic); reactions of benzene diazonium chloride.

3. Urea

Preparation of urea: reactions of urea with HNO_3 , H_2 , HNO_2 , NaOH , CH_3COCl , $\text{C}_2\text{H}_5\text{OH}$, NH_2NH_2 , and diethyl malonate; formation of biuret.

Unit -31. Chemical Equilibria

Reversible and irreversible reactions; law of mass action; thermodynamic derivation and experimental verification of the law of mass action with reference to the reaction $H_2 + I_2 = 2HI$;

relation between K_p and K_c ; Le Chatelier principle and its application to the equilibria $H_2 + I_2 \rightleftharpoons 2HI$,

$PCl_5 \rightleftharpoons PCl_3 + Cl_2$, and $N_2 + 3H_2 \rightleftharpoons 2NH_3$;

homogeneous equilibria in liquid systems (esterification of acetic acid) equilibria heterogeneous systems (dissociation of calcium carbonate).

2. Chemical Kinetics-I

Definitions of velocity, specific reaction rates, order and molecularity of reactions, pseudo unimolecular reactions; first order and second order reactions; derivations of the equations for specific reactions rates for first order and second order reactions (one example of each type of reaction); determination of the order of the reaction.

Unit-41. Thermodynamics-II

Spontaneous processes and criteria for thermodynamic equilibrium; second law of thermodynamics; Carnot's cycle; efficiency of reversible heat engines; thermodynamic temperature scale; entropy; entropy changes for an ideal gas; entropy change for a spontaneous process; definition of free energy and chemical potential.

PAPER-IV

PHYSICAL -CHEMISTRY

Max. Marks: 46

Time : 2 hours.

Unit-11. Colloids

Definition and classification of colloids; preparation of colloids (reduction, oxidation, hydrolysis, double decomposition, Bredig's method); peptization and purification of colloids; properties of colloids (Tyndall effect, Brownian movement, electrophoresis); protective colloids and gold number; electrokinetic phenomena (elementary idea); zeta potential (derivation not required).

2. Macromolecules

Characteristics of macromolecules; degree of polymerization concepts of number and weight average molecular mass; determination of average molecular weight by osmometry, centrifugation and diffusion methods.

Unit-21. Adsorption

Differences between absorption and adsorption; types of adsorption, theories of adsorption, Freundlich's adsorption isotherm and Langmuir's adsorption isotherm (derivations and limiting cases).

2. Catalysis

Criteria and classification (homogeneous, heterogeneous and autocatalysis, theories of catalysis (adsorption theory and intermediate compound formation theory); promoters, catalytic poisons; applications of catalysis to the following processes- manufacture of ammonia by the Haber process, manufacture of sulphuric acid by the Lead Chamber and contact processes, and the manufacture of nitric acid by the Ostwald process.

PAPER - V
PRACTICALS

INORGANIC CHEMISTRY (GENERAL)

Time: 12 hours

Marks:60

PART-I: QUALITATIVE ANALYSIS

(30)

Inorganic mixtures containing five radicals/ions to be prepared from the following list:

Ag^+ , Pb^{2+} , Hg_2^{2+} , Hg^{2+} , Bi^{3+} , Cu^{2+} , Cd^{2+} , As^{3+} , Sb^{3+}
 Sn^{2+} , Sn^{4+} , Fe^{2+} , Fe^{3+} , Al^{3+} , Cr^{3+} , Zn^{2+} , Mn^{2+} , Co^{2+} ,
 Ni^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , K^+ , Na^+ , NH_4^+ ,
 Cl^- , Br^- , I^- , SO_4^{2-} , SO_3^{2-} , S^{2-} , NO_3^- , NO_2^- , $\text{S}_2\text{O}_3^{2-}$;
 PO_4^{3-} , BO_3^{3-} , AsO_4^{3-} , F^- , CrO_4^{2-} .

Every mixture shall contain one interfering radical/ion

PART-II. QUANTITATIVE ANALYSIS

(20)

1. Volumetric estimation--- Redox titrations involving potassium permanganate and potassium dichromate for estimation of Fe^{2+} and Fe^{3+} and Ca^{2+} , and the iodometric estimation of Cu^{2+} .

2. Gravimetric Estimation--- Gravimetric estimation of Cl^- and Ba^{2+} ions.

PART-III

Viva Voce

(10)

PRINCIPLES OF ALL EXPERIMENTS ARE TO BE EXPLAINED.

- (b) Ag^+ by Mohr's method;
 - (c) Fe^{3+} and Cl^- from a mixture containing FeCl_3 & KCl ;
 - (d) Ca^{2+} and Cl^- from CaCl_2 ;
 - (e) Cu^{2+} and Cl^- from CuCl_2 ;
 - (f) Ba^{2+} and Cl^- from BaCl_2 ; and
 - (g) Zn^{2+} and Cl^- from ZnCl_2 .
2. Gravimetric Estimation- Estimations of Ag^+ , Pb^{2+} , Zn^{2+} , Ba^{2+} , Mg^{2+} , SO_4^{2-} .

3. Estimation of the constituents from the following mixtures (volumetrically or gravimetrically):

Iron - Calcium; Iron - Copper; Iron - Manganese;
Copper - Zinc; Silver - Copper; Calcium - Barium;
Calcium - Lead; Calcium - Manganese.

4. Complexometry using EDTA- Estimations of Mg^{2+} , Ca^{2+} , Zn^{2+} .

PART -I : INORGANIC PREPARATIONS

Preparation of the following compounds:

- (a) Cuprous chloride; (b) Potassium chlorochromate (VI)
- (c) Sodium cobaltinitrite; ((d) Sodium peroxoborate;
- (e) Potassium trioxalate chromate;
- (f) Tris (thiourea) Copper (I) sulphate;
- (g) Hexammine cobalt (III) chloride; and
- (h) Mercuric tetrathiocyanate cobaltate (II).

Max. Marks: 70

Time :3 hours.

Each Part has to be answered in separate answer books.

PART A: INORGANIC CHEMISTRY 23 marks.

Unit-1

1. Elementary idea of the production of man-made elements.
2. Boron hydrides---- general properties of boranes.
3. General chemistry of silicones.
4. Peroxides and peroxy acids of carbon and sulphur.
5. Platinum metals--- members of the family, representative oxidation states, quadrivalent palladium and platinum, brief chemistry of bivalent palladium and platinum; uses of platinum and palladium.
6. Variable oxidation states of Chromium, Manganese, iron, cobalt, and nickel; (most common oxidation states of each); ---- classification of high and low oxidation states with one example of each); common oxidation states of titanium, zirconium, hafnium, vanadium, niobium, and tantalum (with examples).
7. General group studies of chromium, molybdenum and tungsten.
8. ENVIRONMENTAL CHEMISTRY

Elementary idea of air, soil and water pollution with reference to their origin; depletion of ozone layer.

Unit-2

1. LANTHANIDES

General study; electronic configuration, oxidation states; complexation behaviour; lanthanide contraction; separation of lanthanides.

2. ACTINIDES

Discovery; electronic configuration; oxidation state; comparison with lanthanides.

3. ORGANO-METALLIC COMPOUNDS

Definition and classification; synthesis, properties, structures and applications of Organometallic compounds of lithium, magnesium, boron and tin.

4. SEPARATION METHODS

(a) Solvent Extraction: Principles and process of solvent extraction; the distribution law and the partition coefficient; Batch extraction, continuous extraction and counter-current distribution.

(b) Chromatography: Classification of chromatographic methods; Principles of differential migration; adsorption phenomenon; nature of the adsorbent; solvent systems and Rf values.

5. PRINCIPLES OF QUALITATIVE AND QUANTITATIVE ANALYSIS ESTIMATION:

General concept; relations involved in identification of cations and anions, removal of interfering radicals; group separation; standard solutions; theory of washing.

PART B: ORGANIC CHEMISTRY

24 marks.

Unit-1(1) Carbohydrates:

Introduction, classification, interrelationship among monosaccharides. Reaction of glucose and fructose with Br_2 , HCN,

Tollen's reagent, Fehling's solution, Hydroxylamine, Phenylhydrazine, HNO_3 and osazone formation. Elucidation of

pyranose and furanose structures. Determination of ring size. Haworth projection formula, configuration of glucose and fructose. Epimerisation, interconversion of aldoses and ketoses. Ascending and descending series.

(2) Amino acids:

Introduction and classification. Synthesis of α -amino acids by direct ammonolysis of α -haloacids and Gabriel synthesis of glycine, alanine, phenyl alanine; glutamic and aspartic acids.

Physical properties, isoelectric points and zwitterionic structure. Elementary ideas of proteins and peptides (casein and oxytocin).

Unit 2

1. Heterocyclic compounds-I

Introduction, Resonance molecular orbital pictures, preparation and electrophilic substitution reactions of pyrrole, furan and thiophene; structure, preparation and reactions of pyridine; comparative basicity of pyrrole/pyridine, pyrrole/pyrrolidine and pyridine/piperidine.

2. Fat, oils, soaps and detergents

Animal and vegetable oils, drying and nondrying oils. Hydrogen Iodine value, RM value and saponification value of oils, soaps and detergents: Toilet and washing soap, synthetic detergents. Mechanism of cleansing action of soap and detergents. Superiority of detergents to soaps.

3. Dyes

Relationship between colour and constitution, chromophore, Auxochrome, chemical classification of dyes. Synthesis of methyl orange, Bismark Brown, Malachite Green and Phenolphthalein.

PART C: PHYSICAL CHEMISTRY 23 Marks.

1. Phase Equilibria

(a) Phase rule ($F = C - P + 2$), explanation of the terms; application of the phase rule to the following: (i) one-component system (water-sulfur system); (ii) two-component systems involving eutectics (KI - H₂O systems); congruent melting points (phenol-aniline system); incongruent melting points (NaCl - H₂O system).

(b) Liquid-liquid mixtures; azeotropes (ethanol-water system); partial miscibility of liquids; lower critical solution temperature (triethylamine-water system); upper critical solution temperature (phenol-water system); system exhibiting lower and upper critical solution temperature (nicotine-water system); steam distillation (aniline-water system); Nernst distribution law and its application to solvent extraction.

Unit 2: Electrochemistry1. Conductance

Specific, equivalent and molar conductance; measurement of conductance; variation of conductance with dilution (explanation through interionic attraction); conductometric titrations involving strong acids and strong bases; classification of electrolytes based on conductance measurements; Kohlrausch's law conductance ratio an degree of dissociation; transference number and its determination (Hittorf's and moving boundary methods); abnormal transference numbers.

3. Ionic Equilibria:

Ostwald's dilution law; ionization of water, hydrogen ion concentration, pH; buffer solution; strengths of acids and bases (detn. not required); concept of hydrolysis; derivation of hydrolysis constant for salts of (i) strong acid and weak base (ii) weak acid-strong base (iii) weak acid-weak base (experimental determination not required); solubility, solubility product and common ion effect; applications of solubility product and common ion effect in analytical chemistry, theory of acid-base indicators.

5: 2: 1: (27)

PAPER VII

PRACTICALS

GROUP A

ORGANIC CHEMISTRY (GENERAL)

Marks: 30

Time: 6 hours

Systematic qualitative organic and analysis of compounds containing one functional group.

(a) Detection of elements (N, Cl, Br, I, S). (5)

(b) Detection of the following functional groups (with systematic reporting): (15)

COOH; NH₂, NO₂, OH(Phenolic); CO(Carbonyl group).

(c) Preparation of derivative (5)

(d) Viva Voce (5)

PAPER VII

PRACTICALS

GROUP B

PHYSICAL CHEMISTRY (GENERAL)

Marks: 30

Time: 6 hours

The following experiments should be performed:-

- (1) Determination of the heat of neutralisation of a strong acid against strong base.
- (2) Determination of the molecular weight by Rast's method.
- (3) Determination of the velocity constant of the reaction between hydrogen peroxide and potassium permanganate, using ferric chloride as the catalyst.
- (4) Study of the heat of dilution of sulfuric acid, and hence to determine the strength of an unknown acid.
- (5) Study of the adsorption of oxalic acid on charcoal and verification of Freundlich's adsorption isotherm.
- (6) Determination of the solubility of a salt (BaCl_2 /Benzoic acid) at two temperatures, and to determine the heat of solution.
- (7) Verification of Hardy-Schulze law - preparation and coagulation of arsenious sulfide (As_2S_3) sol, using NaCl , BaCl_2 and AlCl_3 solutions.

PAPER VIII

Max. Marks: 70

Time: 3 hours

Each part has to be answered in separate answer books.

PART A: INORGANIC CHEMISTRY 23 Marks.Unit 11. EVALUATION OF ANALYTICAL DATA

Accuracy and precision; methods for their expression; classification of errors; detection and correction of determinate and indeterminate errors; The Normal law of Distribution of Indeterminate errors.

Statistical Tests of Data: The F test and the T test; rejection of data; The method of least squares; propagation of errors in computation; significant figures.

2. Inorganic Polymers

Types of inorganic polymers; comparison with organic polymers; synthesis, structural aspects and applications of silicons and phosphonitrilic halides.

3. Environmental Chemistry and Pollution

Man and environment; ecological balance-meaning and degradation; pollution--air, water and soil; common pollutants; ozone in stratosphere; acid rain & smog; prevention of pollution.

Unit-2.1. Oxidation- Reduction

Electrochemical cell; standard electrode potential; Nernst equation; electrochemical series; application of redox potential;

2. Acid-Base and Related Phenomena

Relative strengths of acids and bases (inorganic); PK_a and PK_b values, variation of acidity; concept of hard and soft acids and bases (SHAB concept).

PAPER-VII

PRACTICALS

ORGANIC CHEMISTRY (MAJOR)

Time : 8 hours

Marks: 75.

1. Systematic qualitative organic analysis of compounds containing two functional groups.

- (a) Detection of elements (N, Cl, Br, I, S)
- (b) Detection of the following functional groups (with systematic reporting):
-CHO; -C=O; -COOH; -OH (Phenolic); SO₃H; -NH₂; -NO₂; CO-NH₂;
unsaturation.
- (c) Determination of the melting point/boiling point.
- (d) Identification of the compound with the help of a reference book.
- (e) Preparation of the derivative and determination of its melting point.

2. Organic preparation

Preparation of the following organic compounds:
Phthalimide (from phthalic anhydride); m-dinitrobenzene (from nitrobenzene); picric acid (from phenol); benzoic acid (from toluene); aspirin (from methylsalicylate); p-bromoacetanilide (from acetanilide).

3. Organic Separation

- (a) Separation of binary organic mixtures based on acid-base concept.
- (b) Determination of melting points.

4. Viva Voce

3. Non-Aqueous Solvents

Classification and importance; Reactions in liquid ammonia and liquid sulphur dioxide; action of metals on liquid ammonia; neutralisation reactions; precipitation reactions; complex formation reactions; Redox reactions; solvolysis reactions.

4. STUDY OF:

- (a) Inorganic paints and pigments.
- (b) Rusting of iron, corrosion and passivity.
- (c) Carbides (includes structures).
- (d) Iso-poly acids and hetero-poly acids.
- (e) Electrochemical and thermal industries, e.g. silicon carbide, calcium carbide and alundum.
- (f) Nitrogenous and phosphatic fertilisers.

PART B; ORGANIC CHEMISTRY**Unit-1****23 Marks.****1. Acid-Base concept**

Bronsted-Lowry concept, relative strengths of acids and bases, scales of acidity and basicity (PK_a concept); effect of resonance, inductive effect and hybridisation on acidity and basicity of molecules; definition of Lewis acids and bases.

2. Polynuclear Aromatic Hydrocarbons

Introduction; structure of naphthalene; reactions; mechanism and orientation of electrophilic substitution; preparation and reaction of α - and β -naphthols (azo-coupling, reactions with HNO_2 and $FeCl_3$); preparation and reactions of anthracene.

Unit-2**1. Stereochemistry**

Nomenclature of enantiomers (R & S); Configuration- (Relative and Absolute); inversion; retention; racemisation and resolution; conformation and conformational isomerism in ethane and n-butane; conformation of cyclic compounds -- (cyclohexane, monosubstituted and disubstituted cyclohexanes).

Stereochemical aspects of addition of bromine to alkenes.

2. Polymer Chemistry

Introduction to dienes: conjugated, isolation and cumulated dienes.

Types of polymers and polymerisation processes; addition polymers; stereocontrolled copolymers; condensation polymers.

Manufacture and applications of the following polymers:

- (i) natural rubber and synthetic rubber;
- (ii) synthetic fibres: polyesters, polyamides, polyacrylates;
- (iii) plastics; polythene and polystyrene; thermoplastic and thermosetting polymers (bakelite and polyurethanes);
- (iv) foaming agents; plasticisers and stabilisers.

PART C: PHYSICAL CHEMISTRY**UNIT-1**

24 Marks.

Gaseous State-II

Average kinetic energy of translation; Boltzmann constant; root-mean square velocity; Maxwell distribution law of molecular velocities; molecular velocities and energy distribution as a function of temperature; calculation of the most probable, average and root mean square velocities of molecules; Maxwell - Boltzmann distribution, degrees of freedom of motion; principle of equipartition of energy, molecular basis of heat capacity, mean free path, collision diameter and collision frequencies.

Unit-2**Physical Properties and Molecular Structure**

Additive and constitutive properties; molar volume; surface tension (determination by capillary rise method and drop volume method); parachor; viscosity and its determination by Ostwald's viscometer method; dielectric constant and molar polarization; refractive index; molar refraction (experimental determination not required); definition and determination of dipole moment (Debye's method); dipole moment and ionic character.

Max. Marks-70

PAPER-IX

Time : 3 hours.

Each part has to be answered in separate Answer Books.

PART A: INORGANIC CHEMISTRY

24 Marks.

Unit-11. STRUCTURE OF ATOM-II.

Wave mechanical concept; idea of de Broglie matter waves; uncertainty principle; physical basis of wave-mechanics; Schrodinger's wave equation; significance of and angular dependence of wave functions; signs of plots of angular part wave functions of different orbitals; normal and orthogonal wave functions.

2. Nuclear Chemistry and Radioactivity -III

(a) Detection and measurement of radioactivity (G.M. Counter method); decay kinetics - first order rate equation for radioactive disintegration; theory of radioactive disintegration; radioactive series-- uranium ; magic number concept; uses of radioactive and non-radioactive isotopes; transmutation of elements; radio chemical principle in the use of tracers.

(b) Size of Nucleus; nuclear forces; nuclear binding energy; the possible forces between n-n, p-p, and n-p; nuclear reactions-spallation.

Basic principles and types of nuclear reactions; atomic energy and Q values of nuclear reactions (MeV).

Unit-2CHEMICAL BONDING-IV

1. Ionic bonds in terms of the Born-Haber cycle; variable electrovalency; inert pair effect; orbital theory of covalency; maximum covalency structure and dipole moments.

2. Valence Bond theory: resonance and its applications to inorganic molecules; hybridisation of atomic orbitals; molecular orbital theory of covalent bond (LCAO-method)- its applications to inorganic molecules like H_2 , N_2 , O_2 , CO, NO, NO^+ , inert gases;

incomplete octet and expansion of octet; odd electron molecules; VSEPR- theory and geometry of molecules (example of following systems: AB_2 , AB_3 , AB_2E , AB_4 , AB_3E , AB_2E_2 , AB_5E , AB_4E_2),

multicentre bond in electron deficient molecules.

PART B: ORGANIC CHEMISTRY

Unit-1:

23 Marks.

1. Introduction to organic synthesis: formation of carbon-carbon bond, electrophilic and nucleophilic carbon species, base catalysed condensations (Knoevenagel, Michael, Wittig reaction, Reformatsky reaction, Stobbe condensation, Mannich reaction and Merwein-Pondorf-Verley reduction).
2. Formation and acid-assisted cleavage of acetals; metals and aminals; mechanism of formation and hydrolysis of esters and amides.
3. Molecular Rearrangements:

 Carbonium ion rearrangement (Pinacol-Pinacolone, Wagner-Merwein and dienone-phenol rearrangements, Beckman, Wolff, Hofmann, Curtius, Lossen, Schmidt, benzil-benzilic acid, benzidine-semidine, Favorskii, Fries and Claisen rearrangement).

Unit-2

1. Organic Photochemistry:

 Molecular energy and photochemical energy; excitation of molecules; Franck-Condon Principle; dissipation of energy and Jablonski diagram and singlet-triplet states; photosensitization and quenching; quantum yield.

Introduction to the photochemical reactions of carbonyl compounds (Norrish Type I and Type II cleavages).

2. Pericyclic Reactions:

 Definition of pericyclic reactions.

- (i) Electrocyclic reactions:

Introduction; stereochemistry of electrocyclic reactions; conrotatory-disrotatory ring closure and ring opening (with simple examples like 1,1-disubstituted 1,3-butadiene; 1,6-disubstituted-1,3,5-hexatriene; 1,8-disubstituted-1,8,8,7-octatetraene); Woodward-Hofmann rules for electrocyclic reactions (correlation diagram not required).

(ii) Cycloaddition reactions:

Definition of dienes and dienophiles; supra-supra, antara-

antara modes of cycloadditions ($\pi_s + \pi_s^2$;

$\pi_s^4 + \pi_a^2$, $\pi_s^2 + \pi_s^2$,

$\pi_s^2 + \pi_a^2$), by taking examples of simple dienes and dienophiles.

PART C: PHYSICAL CHEMISTRY

23 Marks.

Unit-1

1. Thermodynamics-III

Gibbs function (G) and Helmholtz function (A); Gibbs-Helmholtz equation; variations of Gibbs and Helmholtz free energies with temperature, pressure and volume; clausius-Clapeyron equation; Trouton's rule; chemical potential and its applications; van't Hoff isotherm and isochore; Maxwell's relations; Nernst heat theorem; third law of thermodynamics and its application to the determination of entropy changes.

2 Solid State.

Heat capacities of solids; atomic heat capacity; derivation of Einstein's equation for the specific heats of solids; Debye's equation (derivation not required); variation of atomic heats with temperature; elements of crystal structure -- plane of symmetry; axis of symmetry; centre of symmetry; space lattice; crystallographic ratios; Miller indices and crystallographic systems; diffraction of X-rays by crystal; Bragg's equation; determination of crystal structure of sodium chloride by laue's method and powder method.

Unit-2

1. Chemical Kinetics-II

General review of orders of reactions (zero, first, second and third orders); activation energy; Arrhenius equation; theories of reaction rates (collision theory and transition state theory); examples of opposing, competing, consecutive and chain reactions (derivations not required); acid-base catalysis; enzyme catalysis (Michaelis-Menten equation).

2. Photochemistry

Absorption of radiation; Grotthus-Draper Law; Beer-Lambert's law; Stark-Einstein's law of photochemical equivalence; quantum yield; application to the photolysis of ammonia, decomposition of hydrogen iodide, decomposition of hydrogen chloride (derivations not required); chemiluminescence; actinometers; photosensitizers; photosynthesis.

PAPER-X

PRACTICALS

PHYSICAL CHEMISTRY (MAJOR)

Marks: 75

Time : 8 Hours.

1. Determination of the surface tension of the given liquids by the drop volume method.
2. Determination of the Viscosity Composition (v/v) curve of the ethanol-water system and to determine the composition (v/v) of a given mixture.
3. Determination of: (a) the partition coefficient of iodine between: (i) CCl_4 and water: and (ii) kerosene and water; (b) the partition coefficient of benzoic acid between benzene and water.
4. Determination of the velocity constant of: (a) the hydrolysis of methyl acetate catalysed by an acid; and (b) the saponification of ethyl acetate.
5. Determination of the strength of hydrochloric acid solution (approx. N/10) by titration against standard sodium hydroxide solution, conductometrically (use oxalic acid for the standardization of sodium hydroxide conductometrically).
6. Determination of the strength of the given ferrous sulfate solution, potentiometrically.
7. Verification of Beer-Lambert's law, using copper sulfate/ KMnO_4 / $\text{K}_2\text{Cr}_2\text{O}_7$ colorimetrically; determination of the concentration of the above solution.
8. Acid-alkali titration, using the potentiometer.
9. Decomposition of hydrogen peroxide, using ferric chloride as catalyst, and to determine the activation energy.
10. To study the kinetics of the reaction between potassium persulfate and potassium iodide at two temperatures.

11. Determination of strength of halides, potentiometrically, using silver nitrate.
12. Determination of the heat of solution of solid calcium chloride by the Born-Haber cycle.
13. Verification of the law of additivity of refraction of the given mixtures (methylethyl Ketone-acetone; glycerol-- H_2O)
14. Determination of the critical solution temperature of the phenol-water system.

PAPER-XIINORGANIC CHEMISTRY

Max.Marks: 46

Time : 2 hours.

Unit-1:

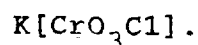
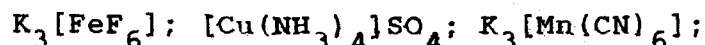
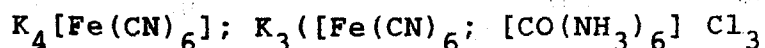
1. COORDINATION CHEMISTRY-II

Detection of complex formation in solution; naming of coordination compounds (mono-nuclear and poly-nuclear); simple and complex ligands; chelation; stereochemistry of 4, 5 and 6 coordination compounds - different types; factors influencing complex formation; stereo-isomerism; optical isomerism; inner metallic complex; high and low oxidation states in coordination compounds; uncommon oxidation states and their stabilisation; application of coordination compounds in analytical chemistry.

Valence Bond theory of coordination compounds; crystal field theory (CFT) with respect to the following points: (i) splitting of d-orbitals by electro-static fields (octahedral, tetrahedral and square planar); (ii) magnetic properties from CFT- e.g. octahedral tetrahedral and square planar; (iii) spectrochemical series; (iv) electronic absorption spectra (octahedral and tetrahedral complexes) --- d^1 --- d^9 systems; introduction to adjusted CFT.

2. MAGNETO CHEMISTRY

Explanation of the terms---diamagnetism, paramagnetism, ferromagnetism, antiferromagnetism, origin of paramagnetic moment; magnetic susceptibility; electron spin moment; orbital angular moment; Curie's law; Curie-Weiss law; Bohr Magneton; magnetic moment from magnetic susceptibility; explanation of the magnetic behaviour of the following:

Unit-21. Study of the following metals

Uranium, thorium and radium; major compounds of quadrivalent, pentavalent and hexavalent uranium; importance of U-235 and its separation techniques.

2. Use of organic reagents in inorganic analysis

Oxine, α -nitroso- β -naphthol, Cupferron, Cupron, Dithiazone, Acetylacetone, Salicyladoxime, Alizarin-S, Dimethylglyoxime and Rhodamine-B.

3. Study of the following topics:

- (1) Redox and Adsorption indicators.
- (ii) Principle of Argentometric and complexometric titrations;
- (iii) Mononuclear and dinuclear metal carbonyls (preparation, structure and bonding only).
- (iv) Metal Nitrosyls (Only terminal).

Unit-3

1. BIO-INORGANIC CHEMISTRY

Essential and trace elements in biological systems; Metalloporphyrins, chlorophyll, heme proteins (hemoglobin myoglobin); role of cobalt in vitamin B₁₂; Enzyme;

Metalloenzymes (Zn) and their characteristics and function; Non-complexing cations in biochemical processes (Na & K); Role of metals and non-metals in metabolism; metal and non-metal deficiency and toxicity.

2. Theory of Quantitative Analysis

Applications of chemical equilibrium to analytical separations and estimations; equilibrium constants; activity coefficients; acid-base equilibrium; solubility equilibria; distribution equilibria; complex ion equilibria and stability constants; gravimetric methods; theory of indicators; theory of precipitation and purification of precipitates; co-precipitation; post-precipitation; acid-base and redox titrations; volumetric analysis; chemistry of separation and estimation of ions (iron calcium, calcium-barium, iron-copper).

Unit-4

1. SOLIDS

Band theory of solids-- Metals, semi-conductors and insulators. Frenkel and Schottky defects.

2. Application of the following techniques in Inorganic.

Analysis (d^1 , d^9 systems):

(a) UV and visible spectrophotometry; study of spectra of octahedral complex of d^1 d^9 systems;

(b) IR spectrophotometry: Spectral studies of compounds with reference to metal -oxygen, metal -nitrogen and metal -halogen (F, Cl, Br, I) bonds;

(c) Atomic Absorption Spectroscopy

Types; atomiser; absorption and emission spectroscopy; general idea of theory and applications.

PAPER-XII

Max. Marks:47

ORGANIC CHEMISTRY

Time : 2 hours.

Unit-1

1. Disaccharides

Maltose and sucrose - their reactions and structure; structure of cellulose and starch (detailed study not required); preparation of cellulose nitrate, cellulose acetate, Rayon and cellophane.

2. Natural Products

(1) Terpenoids: Introduction, isoprene rule, classification, isolation, structural elucidation and synthesis of citral and geraniol.

(ii) Alkaloids: Introduction, classification, physiological action, extraction and synthesis of nicotine and cocaine.

Unit-2

1. Peptides, Proteins and Vitamins

(1) Peptides : Definition, preparation of di- and tripeptides from α -amino acids (carnosin and oxytocene).

(ii) Proteins: Introduction, primary, secondary, tertiary and quaternary structures of proteins; α - and β -proteins; Helical and sheet structure.

(iii) Vitamins: Definition, classification & biological importance of vitamins. Carotenoids - occurrence, isolation and synthesis. (β - carotene as a source of Vitamin A₁; Synthesis of vitamin A₁ and Ascorbic acid.

2. Heterocycles-II

Introduction to condensed five- and six-membered heterocycles; preparation and reactions of Indole, Quinoline and Isoquinoline with special reference to Fischer-Indole synthesis; Skraup Synthesis and Bischler-Napierlski synthesis.

Unit-3

(a) Spectroscopy for structural analysis-

Mass spectrometry (EI): Principle, types of ions produced in Mass spectrometer, molecular ion peak, base peak and metastable ion, determination of molecular weight of organic compounds.

(b) Ultra - violet and visible spectroscopy: Basic principles of UV and visible spectroscopy; Application of UV to conjugated polyenes, carbonyl compounds and α, β - unsaturated carbonyl compounds; Woodward's rule.

(c) Infrared spectroscopy: Basic principle; characteristic vibrational frequency of carbonyl compounds; hydroxy and amino compounds.

(d) Nuclear Magnetic resonance spectroscopy: Principle, chemical shifts, shielding and deshielding of protons, chemical shift and Magnetic equivalent protons. NMR- peak area, and proton counting. Characteristic protons, chemical shifts and coupling constants for the following molecules; Ethylbromide; toluene; p-xylene; o- and p-nitro toluene; anisole; ethyl alcohol and ethyl acetate.

Unit-4

Topics in Biological Chemistry

(a) Enzymes:

Introduction, nomenclature and characteristics. Mechanism of enzyme action (a general picture) co-enzyme; co-enzymes derived from niacin and thiamine; lipoic acid; Co-enzyme A.. Energy production in biological systems (role of ATP and ATP-ADP cycle) glycolysis and tricarboxylic acid cycle).

(b) Purines, Pyrimidines and Nucleic acids: Introduction, preparation and structure of adenine, guanine, cytosine uracil, thymine and caffeine. Structure of nucleosides, nucleotides and DNA, Replication of DNA.

PAPER XIII

PHYSICAL CHEMISTRY

Max.Marks:47

Time : 2 hours.

Unit-1

Electrochemistry-II

1. Conductance

Applications of conductance measurements for the following:-

- (1) Solubility of sparingly soluble salts;
- (ii) Degree of hydrolysis;
- (iii) Conductometric titrations (acid base precipitation); theory of strong electrolytes; ionic atmosphere; asymmetry effect, electrophoretic effect, explanation of Debye - Huckel - Onsager equation (derivation not required).

2. E.M.F.

Galvanic cells; reversible cells and reversible electrodes. EMF and its measurement by Poggendorf's compensation methods; free energy changes in cells; derivation of an expression for the EMF of a reversible cell; single electrode potentials and sign conventions; electromotive series; reference electrodes; concentration cells (with and without transference) derivations of expressions for their EMF's; applications of EMF measurements potentiometric titrations (acid-base and redox); concept of activity and activity coefficients; determination of ionic activities by EMF method; decomposition potential, electrolytic polarization, over-voltage.

Unit-2

Statistical Thermodynamics

Limitations of classical thermodynamics; concepts of distribution of energy; thermodynamic probability; Boltzmann distribution law; partition functions and thermodynamic quantities; partition functions for molecules with different types of energy (translational, rotational and vibrational energies); heat capacities of solids from partition functions.

Unit-3

Quantum Chemistry

Black body radiation; Plank's quantum theory; photoelectric

effect (Einstein's equation), Bohr model of an atom; failure of Bohr's model; wave particle duality of light and matter; Heisenber uncertainty principle; standing waves and progressive waves; Schrodinger wave equation; treatment of particle in a box; idea of quantization for bound particles; shapes of s and p orbitals; probability distribution of electrons using wave functions.

Unit-4

Molecular Spectroscopy

Electromagnetic radiation; interaction of electromagnetic radiation with molecules and quantization of different forms of energy (translational, rotational, vibrational and electronic); condition of resonance and energy of absorption for various types of spectra, classical equation of vibration (Hooke's Law); Linear harmonic oscillator; vibrational energies of diatomic molecules; force constant and bond strength; anharmonicity; Morse potential; fundamental frequencies; overtones; evaluation of force constant from fundamental frequencies, Raman spectra - classical and quantum mechanical concept; rule of mutual exclusion; Franck-Condon principle; electronic transitions; singlet and triplet states; fluorescence and phosphorescence; effect of solvents of electronic transition energies.

BOOKS RECOMMENDED (ORGANIC CHEMISTRY)

1. Organic Chemistry Vol.I & II : I.L. Finar (ELBS Publication).
2. Advanced Organic Chemistry : B.S.Bahl & A.Bahl
(S.Chand , Delhi).
3. Organic Chemistry
Vol. I, I*, III. : S.M.Mukherjee, S.P.Singh &
R.P.Kapoor, Wiley Eastern
Ltd., 1991.
4. Organic Chemistry : Morison and Boyd
(Prentice Hall of India).
5. Stereochemistry : P.S.Kalsi, Wiley Eastern Ltd.,
6. Reaction Mechanism in
Organic Chemistry : S.M.Mukherjee & S.P.Singh
(Macmillan).
7. A Guide Book to Mechanism
in Organic Chemistry. : Peter Sykes (Orient Longman)
8. Molecular Reactions and
Photochemistry : Depuy and Chapman
(Prentice Hall of India).
9. Organic Molecular Absorption
Spectroscopy. : John R. Dyer.
Prentice Hall of India.
10. Organic Absorption
Spectroscopy : Y.R.Sharma (S.Chand & Co.,
Delhi 1992)
11. General Organic Chemistry : S.K.Ghosh
Central Book Agency,
Calcutta, 1992.
12. Organic Chemistry : M.K.Jain,
S.Chand & Co., Jalandhar, 1991.

* For B.Sc. (General) ; All Books recommended for B.Sc (Major).

BOOKS RECOMMENDED (PHYSICAL CHEMISTRY)

1. Sharma K.K., Sharma L : A Text Book of Physical Chemistry.
2. Palit S.R. : Physical Chemistry
(Sarat Book House , Calcutta, 1980).
3. Rakshit P.C. : Physical Chemistry
(Sarat Book House, Calcutta, 1980)
4. D.V.S. Jain & S.P. Jauhar: Physical Chemistry
(Tata Mcgraw Hill, New Delhi, 1988).
5. Glasstone S, & Lewis D : Elements of Physical Chemistry
(Macmillan) (for reference)
6. Barrow G.M. : Physical Chemistry
(Mcgraw Hill, 1983).
7. Puri B.R., Sharma L.R.,
and Pathania M.S. : Principles of Physical Chemistry
Shoban Lal Nagin Chand & Co.,
Jalandhar, 1990.
8. K.L. Kapoor : Elements of Physical Chemistry
Part I, II, III
(Macmillan India ltd., 1987).
9. A.S. Negi & S.C. Anand : A Text Book of Physical Chemistry.
(Wiley Eastern ltd., New Delhi, 1991).
10. C.N.R. Rao : University College Chemistry
(Macmillan, 1990).

* For B.Sc (General); All books recommended for B.Sc(Major).

Books Recommended (Inorganic Chemistry)

1. Selected Topics in Inorganic Chemistry
by W.U. Malik , G.D. Tuli and R.D.Madan.
(S.Chand & Company Ltd. New Delhi)
2. Advanced Inorganic Chemistry
by Gurdeep Raj, Vol. I & II 1992, Goel Published House, Meerut.
3. Advanced Inorganic Chemistry
by F.A. Cotton and G. Wilkinson (Wiley Eastern Ltd.)
4. Essentials of Nuclear Chemistry
by H.J. Arnikar (Wiley Eastern Ltd).
5. Basic Inorganic Chemistry
by F.A. Cotton and G. Wilkison (Wiley Eastern).
6. A Text Book of Inorganic Chemistry
by A.K.Dey (Wiley Eastern).
7. Practical Inorganic Chemistry
by A.K.Dey (Science Book Agency, Calcutta).
8. Inorganic Chemistry Part I and Part II
by R.L. Dutta (The New Book Stall, Calcutta-9).
9. A Text Book of Qualitative Inorganic Analysis
by A.I.Vogel
10. A Text Book of Quantitative Inorganic Analysis
by A.I. Vogel.
11. Instrumental Methods of Chemical Analysis
by G. Ghatwal & S. Anand, 1988.
Himalaya Publishing House, Bombay.
12. Principles of Inorganic Chemistry
by B.R. Puri, L.R. Sharma & K.C. Kelia,
Shaban lal Nagin Chand & Co ., Jalandhar. (1990).

* For B.Sc. (General) All books recommended for B.Sc. (Major).

(ii) Syllabus on Environmental Chemistry - M.Sc. level

The Head, Department of Chemistry, NEHU, Shillong has submitted the M.Sc. Syllabus on Environmental Chemistry. The same is placed at Annexure I.

The BPGS approved the syllabus in its meeting held on 26.4.96.

The School Board approved the course contents with the observations that the marks distribution has to be done only after obtaining clear cut guidelines from the University.

The matter is placed before the Council for consideration.

CHEM-562
ENVIRONMENTAL CHEMISTRY

UNIT-1 Atmosphere and Air Pollution

- Composition and structure of atmosphere
- Atmospheric photochemistry
- Depletion of stratospheric ozone (CFC, NO_x)
- Industrial air pollution (particulates, SO_x, HC, H₂S, Cl₂, HF, peroxydable organic compounds, MIC, PVC, metals, asbestos, greenhouse effect and acid rains)
- Transport related air pollution (CO, NO_x, photochemical smog and air-borne lead)
- Atmospheric radioactivity and radon
- Control of air pollution.

UNIT-2 Hydrosphere and Water Pollution

- The water cycle
- Criteria of water quality
- Organic pollutants (oil, HC, pesticides, microorganisms)
- Inorganic pollutants (Hg, Pb, As, Cd, phosphates, and radioactivity)
- Abatement of water pollution.

UNIT-3 Pollution of Soil

- Mineral resources, soil nutrients
- Insecticides, pesticides and organic polymers (degradable, non-degradable and biodegradable)
- Municipal wastes
- Industrial and radioactive wastes, and their disposal
- Detoxification of wastes, reclamation, recycling and reuse.

UNIT-4 Chemical Analysis of Environmental Pollutants

- Sampling techniques
- Air pollution monitoring instruments
- Water quality monitoring instruments
- Analysis of air, water and soil samples
- Toxicity of hazardous chemicals and their safe handling.

UNIT-5 Consequences of Environmental Pollution and Future Hopes

- Deleterious health effects of air, water and soil pollution
- Mechanism of chemical toxicity, carcinogenesis, radiotoxicity
- Major environmental disasters (Minamata, Bhopal, Chernobyl)
- The role of chemists in improving and preserving the quality of the environment.

5:2:2(1)

(ii) Syllabus on Environmental Chemistry- M.Sc. level

The Head, Department of Chemistry, NEHU, Shillong has submitted the M.Sc. Syllabus on Environmental Chemistry.

The same is placed at Annexure I, for consideration of the Council

Recommended Books

1. J.W. Moore and E.A. Moore, Environmental Chemistry, Academic Press, London, 1976.
2. A.R. Meetham, Atmospheric Pollution, Pergamon Press, U.K., 1981.
3. S.E. Manahan, Environmental Chemistry, Willard Grant Press, Boston, 1983.
4. S.M. Khopkar, Environmental Pollution Analysis, Wiley Eastern, New Delhi, 1994.
5. S.S. Dara, A Text Book of Environmental Chemistry and Pollution Control, S. Chand and Co., New Delhi, 1995.

1. Marks	100
2. Units	05
3. Each Unit	20 Marks
4. Lectures	40

(iii) M.Sc. Physics Syllabus

The syllabi for the courses to be offered in M.Sc. Physics from 1996 have been submitted by the Department. The same is placed at Annexure I.

The syllabus was approved by the BPGS Physics in its meeting held on 24.4.96. The same was thereafter placed before the School Board for its consideration and approval.

The Board while deliberating on the revised syllabus approved it with the following observations.

- (1) The H.O.D., Physics may take necessary steps to divide the course contents into units.
- (2) The H.O.D., Physics should take necessary steps for the revision of the course contents and reading materials for the course Physics/543(b) "High Energy Physics".

The matter is placed before the Council for consideration.

5: 2: 3: (2)

Physics Department
North-Eastern Hill University
Shillong - 793022

Syllabi for the courses to be offered in M.Sc Physics from 1996

I Semester

1.	Classical Mechanics	(Phys/411)	100
2.	Quantum Mechanics I	(Phys/412)	100
3.	Mathematical Physics	(Phys/413)	100
4.	Laboratory	(Phys/414)	150

II Semester

1.	Electrodynamics	(Phys/421)	100
2.	Electronics	(Phys/422)	100
3.	Quantum Mechanics II	(Phys/423)	100
4.	Laboratory	(Phys/424)	150

III Semester

1.	Nuclear Physics	(Phys/531)	100
2.	Solid State Physics	(Phys/532)	100
3.	Atomic and Molecular Physics	(Phys/533)	100
4.	Laboratory	(Phys/534)	150

IV Semester

1.	Thermal Physics	(Phys/541)	100
2.(a)	Many-body Theory	(Phys/542a) or	100
	(b) Experimental Techniques	(Phys/542b)	
3.(a)	Solid State Physics	(Phys/543a)	100
	or		
	(b) High-Energy Physics	(Phys/543b)	
	or		
	(c) Laser Physics	(Phys/543c)	
	or		
	(d) Nuclear Physics	(Phys/543d)	
4.	Project Work	(Phys/544)	100
5.	Environment	(Phys/545)	<u>50</u>
			<u>1800</u>

N.B. U stands for Unit in the Syllabus.

5: 2: 3: (3)

I Semester M.Sc (Physics)

Phys/411 : Classical Mechanics

- U-1. Hamilton's Variational Principle-Derivation of Lagranges equations from it - velocity dependent forces dissipation, Charged particle in an electromagnetic field. Space time Symmetries and Conservation Laws. Virial Theorem. Scale transformation. (8)
- U-2. Legendre transformation-Hamiltons equations, Significance of Hamiltons function- Cyclic coordinates and conservation Theorems. Poisson Brackets-Poisson Bracket of Angular Momentum with coordinates, Moments, Hamiltonian etc. Canonical Transformation Theory- Contact transformation Integral invariants. (8)
- U-3. Two-Body problem-central forces-classification of orbits differential equation for orbits. Kepler problem, scattering in laboratory and centre of mass frames transformation of gross sections energies. Coulomb scattering. Kinematics of decay of a particle (into two). (8)
- U-4. Rigid Body Motion: Fixed and Moving coordinate systems, orthogonal transformations Euler angles, Angular Momentum, rotational Kinetic energy. Principal Axes transformation Euler equations Force free motion of a rigid body-Symmetric top. (8)
- U-5. Special Theory of Relativity
Lorentz transformations. Four dimensional formulation;
Force Momentum and Energy in relativistic mechanics.
Properties of space-time in relativity. Two body Decay of a particle. (8)

Text Books:

1. K.C. Gupta, Classical Mechanics of Particles and Rigid Bodies, Wiley Eastern (1988)
2. H. Goldstein, Classical Mechanics, Narosa Publishing Co. (1995)
3. D.T. Greenwood: Principles of Dynamics, Prentice Hall (1988)
4. N.C. Rana and P.S. Joag, Classical Mechanics, Tata McGraw Hill (1991)

Reference Books

1. J.B. Marion: Classical Mechanics of Particles and Systems, Academic Press. (1979)
2. L.D. Landau and E.M. Lifshitz: Mechanics, Addison Wesley, (1960)
3. W. Hauser: Introduction to the Principles of Mechanics, Addison Wesley (1965)

5: 2: 3: (5)

I Semester M.Sc (Physics)

Phys/412 : Quantum Mechanics-I

- U-1 Introduction and Review: Ensemble interpretation and Copenhagen interpretation. Basic Postulates of Quantum Mechanics. Pure and Mixed states density Matrix-Quantum Mechanics as Operator Theory in Linear Vector spaces. (6)
- U-2 Equation of Motion. Schrodinger, Heisenberg and Dirac representations-Equation of Motion in the representations-Application to Linear Harmonic oscillator Coherent states. (6)
- U-3 Three Dimensional Problems-Separation of Variables-Orbital angular momentum-Spherical Harmonics. Harmonic oscillator in Cartesian and Polar coordinates. Coulomb problem in Spherical and Parabolic coordinates. (10)
- U-4 Spinors and Transformation properties. Pauli spin matrices. Identical Particles and Statistics. Addition of Angular momenta. Clebsch-Gordon coefficients. Wigner-Eckart Theorem. (8)
- U-5(a) Symmetry in Quantum Mechanics. Reflections, time reversal, space inversion, Particle exchange. Displacements in Space and time, space translation and Rotational symmetry. (7)
Selection rules and conservation laws.
- (b) Brief discussion of Interpretational Problem EPR Paradox, Path Integrals, Hidden Variables Uncertainty relations, causality. (3)

Text Books

1. E. Merzbacher, Quantum Mechanics, John Wiley (1970)
2. V.K. Thankappan, Quantum Mechanics, Interscience (1994)

Reference Books

1. A. Messiah, Quantum Mechanics, Interscience (1961)
2. K. Gottfried, Quantum Mechanics, Benjamin (1986)

5:2:3:(7)

I. Semester M.Sc (Physics)

Phys/413 Mathematical Physics

U-1 Finite dimensional linear Vector Spaces

Vector Spaces with complex scalar product. Dimension of a space, basis, schmidt orthonormalization, orthonormal basis, Linear Transformations. Representation of Vectors and Transformations in an orthonormal basis; Hermitian, orthogonal, unitary, projection operators. Change of basis. Subspaces, Eigenvalues and Eigenvectors Diagonalization. (10)

U-2 Special functions of Mathematical Physics

+
3

Spherical Bessel, neumann and hankel function Expansion of plane waves into partial waves.
Laguerre and Associated Laguerre differential equation and functions. Their generating functions, recurrence relations, orthonormality.
Confluent hypergeometric equation
Associated Legendre Functions and Spherical harmonics (14)

U-4 General properties of Laplace transforms. Inverse Laplace transform. Solution of differential equation with boundary conditions using Laplace transforms. Convolution theorem Application to Volterra Integral equation (8)

U-5 Complex Variables

Taylor and Laurent series. Contour Integration involving Jordan Lemma. Analytic continuation (8)

Text Books

1. G. Arfken: Mathematical Methods for Physicists Acad Press (1966)
2. C. Ray Wylie: Advanced Engineering Mathematics McGraw Hill Kogakusha (1975)
3. J. Matthews & R.L: Walker: Mathematical methods of Physics, W.A. Benjamin (1970)

Reference Books

1. H. Margenau and G.M. Murphy: "Mathematics for Physics and Chemistry" (Van Nostrand)
2. A.W. Joshi "Matrices and tensors in Physics" (Wiley Eastern). 3rd Edition:

5:2:3:(9)

I Semester M.Sc (Physics)

Phys/414 Laboratory

1. Study of Static characteristics of unipolar FET and determination of its parameters
2. Study of the transient response of series LCR circuit
3. Study of the phase difference in a RC circuit and calibration of an oscillator using Lissajous figures
4. Experimental verification of Thevenin and Norton theorems
5. Determination of the difference in wavelength ($\Delta\lambda$) of sodium D_1 and D_2 lines using Fabry-Perot interferometer
6. To determine the refractive index of a transparent material using Brewster's law and laser.
7. To study characteristics of ~~stable~~, ^omon_λstable and bistable multivibrators
8. To study the phase shift oscillator
9. To study the Wien bridge Oscillator
10. Study of Schmitt trigger circuit
11. Study of the characteristics of Silicon controlled rectifier (SCR)
12. Study of the logic circuits (AND, OR, NOT, NAND)
13. Study of Klystron modes and measurement of large voltage standing wave Ratio (VSWR)

Note: The manuals are supplied to the students where further references are mentioned.

5: 2: 3: (10)

II Semester M.Sc (Physics)

Phys/421: Electrodynamics

- U-1 Review of Maxwells Equation, in vacuum and in Media-Boundary conditions. Uniqueness of solutions for Poisson Equation. Greens functions. Eigenfunction expansion for Greens functions. Multipole expansion in Electrostatics. (8)
- U-2 Vector and Scalar potentials-Gauge transformations. Greens function for wave Equation. Conservation of energy momentum and angular momentum. Poynting Theorem for Harmonic fields. Transformation properties for sources and fields under Rotations, reflections and Time reversal. (8)
- U-3 Plane wave propagation, polarization. Polarization by reflection and refraction. Waves in Dissipative media. Frequency Dispersion characteristics of Dielectrics, Metals, Plasmas. Propagation of wave packet in a Dispersive medium. Causality and Kramers-Kronig relation. (8)
- U-4 Radiation fields of a localized oscillating source Electric Dipole, Quadrupole and Magnetic Dipole radiation. Scattering of electromagnetic radiation by a small scatterer. Scattering by Dielectric sphere. (8)
- U-5 Special Theory of Relativity-Matrix representation of Lorentz transformations Infinitesimal generators. Thomas precession. Transformation of fields. Wave Equation in Covariant form and Invariant Greens functions. (8)

Text Books

1. J.D. Jackson: Classical Electrodynamics, Wiley Eastern (1978)
2. W.K.H. Panofsky and M. Phillips: Classical Electricity and Magnetism, Addison Wesley (1962)
3. B.B. Laud "Electromagnetic", Wiley Eastern (1988)

Reference Books

1. R.B. Plonsey and R.E. Collin "Principles and Applications of Electromagnetic fields" Tata McGraw Hill (1988)
2. S.L. Gupta, S.P. Singh and V. Kumar "Electrodynamics" Pragati (1980)

5:2:3: (12)

II Semester M.Sc (Physics)

Phys/422: Electronics

- U-1 Amplifiers and Oscillators: Two stage cascaded amplifier, Low frequency gain, High frequency gain, Miller Effect, Transformer coupling, Push-Pull amplifier, pulse amplifier, operational amplifier, operational feed back, virtual ground Mathematical operations (adder, differentiator, integrator, logarithmic), phase shift oscillator, Wien Bridge oscillator, unijunction relaxation oscillator, astable multi-vibrator. Circuit for astable, monostable and bistable multivibrator using operational amplifier. (14)
- U-2 Negative conductance Microwave Devices: The IMPATT Diode, QWITT Diode, The TRAPATT Diode, The Transferred Electron Mechanism Formation and Drift of space charge Domains, Modes of operation in Resonant Circuits, Fabrication. (8)
- U-3 Semiconductor lasers: Population inversion at a junction, Emission spectra of P-n junction lasers, The basic semiconductor laser Heterojunction lasers, Quantum well lasers. (4)
- U-4 Analog measurements: Voltage regulators regulated power supply, photomultiplier tube, Oscilloscope, measurement of phase angle between Sine waves using Oscilloscope, Lissajous figures. (4)
- U-5 Digital Electronics and measurements: Digital fundamentals logic gates, DTL, TTL and ECL logics, Flip-Flops, RSFF, JKFF Counters, Registers, A-D and D-A conversion, D-A ladder Networks, Organisation of digital computers. (10)

Text Books

1. Basic Electronics for Scientists
J.J. Brophy, 3rd Edition, McGraw Hill Kogakusha (1977)
2. Principles of Electronic Instrumentation.
A.J. Diefenderfer, Holt-Saunders (1979)
3. Solid State Electronic devices,
B.G. Streetman, 3rd Edition, Prentice Hall of India (1991)

Reference Books

1. Electronics Instrumentation for Scientists
H.V. Malmstadt, C.G. Enke and S.R. Crouch Benzamin (1981)
2. Microwaves, K.C. Gupta, Wiley Eastern (1983)
3. Digital Electronics Practice using integrated Circuits,
R.P. Jain & M.M.S. Anand
Tata McGraw Hill (1984)
4. Electronic Circuits, D.C. Schilling and Charles Belove,
McGraw Hill International (1981)

U-1 Approximation Methods

Qualitative requirements on approximate wavefunctions. Variational Methods for Bound states-lower (and upper limits in simple cases) Schrodinger's method for phase shifts.

WKB approximation-connection with classical limits, validity of approximation. Connection formulae-Application to bound states tunneling in one dimension. Application to Radial Schrodinger equation. (8)

U-2 Linear vector spaces in Quantum Mechanics. Direct product and Direct Sum of Vector spaces. Basics of infinite dimensional vector spaces. Hilbert space and Banach space. Bounded and unbounded operators, spectral decomposition. Projection operators, Antilinear and Antilinear operators. (8)U-3 Perturbation Theory:

Stationary perturbation theory: Nondegenerate case first order and higher orders for energy and wavefunctions
Degenerate case first order.

Time dependent perturbation theory in the interaction picture-first order transition probabilities constant perturbation. Transitions to continuum. Scattering in Born approximation. Harmonic perturbation. Radiative transition (electric dipole) Coulomb excitation.

Sudden and Adiabatic approximations. (8)

U-4 Scattering Theory: Asymptotic behaviour of scattering wavefunction-relation to cross sections, partial waves and phase shifts. Scattering amplitude optical theorem -Low energy scattering-effective range and scattering length-resonances. Scattering integral equation-Green's function with different boundary conditions-Born series Born approximation and its validity. (8)

U-5 Relativistic wave equations-Klein-Gordon equation-4-Current Density.

Dirac Equation-Four component solutions for free particle negative energy solutions-antiparticles-Covariant Form of Dirac Equation-Properties of matrices. (Transformation properties of Dirac free particle solutions)-Spin and magnetic moment of electron. Nonrelativistic limit of Dirac equation: Illustration with Hydrogen Atom problem). Zero mass fermions. (8)

Text Books

1. E. Merzbacher, Quantum Mechanics, John Wiley (1970)
2. V.K. Thankappan, Quantum Mechanics, Interscience (1994)

Reference Books

1. A. Messiah, Quantum Mechanics, Interscience (1961)
2. K. Gottfried, Quantum Mechanics, Benjamin (1986)

5:2:3: (16)

II Semester M.Sc (Physics)

Phys/424: Laboratory

1. Study of the characteristics of operational amplifier
2. To ~~xxx~~ verify the Beer-Lambert Law using UV visible spectrophotometer
3. To find out the relationship between the wavelengths of microwaves in free space and in the waveguide using Gunn diode as a source of microwave
4. To determine the value of Lande's g-factor by electron spin resonance (ESR)
5. Study of the attenuation of β -rays using a GM counter
6. Determination of the refractive index of mica using Michelson interferometer
7. To study analog to digital and digital to analog converter
8. Study of Op-Amp as adder, differentiator and integrator
9. Measurement of Fourier Transform of two dimensional lattices using laser
10. Study of the response of the photodetector using the light emitting diode (LED).

Note: The manuals are supplied to the students where further references are mentioned.

- U-1(a) Basic nuclear properties: isotopes, isobars, isotones, size, shape, spin and parity, binding energy, magnetic dipole moment, electric quadrupole moment. (3)
- (b) Semi-empirical mass formula, liquid drop model, nuclear stability (3)
- U-2(a) Nuclear forces: Central potential-deuteron problem, low energy n-p scattering, effective range theory, spin dependence, non-central forces and deuteron electric quadrupole moment, deuteron magnetic moment, charge independence-isotopic spin, Bartlet, Majorana, Heigenberg exchange forces, Yukawa Theory of nuclear forces. (8)
- (b) Theory of beta decay, Fermi-Curie plot, selection rules, non-conservation of parity (6)
- U-3 Interaction of radiation with matter-photo electric effect, Compton scattering, and pair production, Attenuation of gamma rays in matter. Interaction of charged particle-energy loss stopping power and range for electron and heavy particles. (8)
- U-4 Nuclear Models: Nuclear shell model, magic numbers, extreme single particle model, spin-orbit potential, Schmidt lines for magnetic moment, collective model rotational and vibrational states. (7)
- U-5(a) Basics of radiation detection-semi conductor detector for charged particles and gamma rays Scintillation detectors, gamma-ray spectrometers, determination of the energy of gamma rays. (4)
- (b) Radiative electric and magnetic multipole transition energy and angular momentum, transitions in nuclei-multipole mixing. (3)

Text Books

1. Nuclear Physics - R.R. Roy & B.F. Nigam, Wiley Eastern Limited (1967)
2. Nuclear Theory - J.M. Blatt & V.F. Weisskopf (1952)
3. The Atomic Nucleus - R.D. Evans, Tata McGraw Hill Publishing Company (1978)
4. Radiation Detection and Measurement - G.F. Knoll, John Wiley (1979)
5. Concepts of Nuclear Physics - B.L. Cohen, Tata McGraw Hill (1975)
6. Nuclear Radiation Detectors - S.S. Kapoor & V.S. Ramamurthy Wiley Eastern Limited (1986)
7. Structure of the Nucleus - M.A. Preston and R.K. Bhaduri, Addison-Wesley Pub.(1975)

Reference Books

1. Physics of Nuclei & Particles Vol.I, II Marmier, P & Sheldon, E, Academic Press (1969)
2. Nuclear Physics - I. Kaplan, Narosa Publishing Co 2nd Edition (1993)

- U-1(a) Various lattices in two & three dimensions, diffraction and structure factor, crystal binding mechanisms in different types of crystals. (4)
- (b) Quantization of lattice vibrations, phonons, density of modes, derivation of the Debye T^3 law, thermal conductivity of the lattice. (6)
- U-2 Heat capacity, electrical conductivity and thermal conductivity of the free electron gas, Hall effect, thermoelectric power, transport in semiconductors. (7)
- U-3 Electron gas in a periodic potential, Bloch functions, energy bands and energy gaps, equation of motion of an electron in an energy band, effective mass of electron, holes, reduced and periodic zone schemes, Fermi surfaces, quantization of orbits in a magnetic field, De Haas-Van Alphen effect. (9)
- U-4 Dielectric function of the electron gas, plasma frequency, dispersion relation for electromagnetic waves, plasmons, electrostatic screening, Mott metal-insulator transition. (6)
- U-5 Dielectrics and ferroelectrics, Piezo, pyro and ferroelectricity, macroscopic electric field, local electric field at an atom, dielectric constant and polarizability, Glasses, ferroelectric and liquid crystals, Polarization catastrophe, Landau theory of second order phase transitions, soft optical phonons (8)

Text Books

1. C. Kittel, Introduction to Solid State Physics, Wiley 6th Edition (1993)
2. J.M. Ziman, Principles of the theory of solids, Oxford University Press (1974)
3. R.E. Peierls, Quantum theory of solids, Oxford University Press (1974)

Reference Books

1. J.H. Van Vlack, Material Science for Engineers, Addison-Wesley Publ. Comp., 9th Edition (1982)
2. P.W. Anderson, A career in Theoretical Physics World Scientific (1994)
3. T.H. Beeforth & H.J. Goldsmith, Principles of Solid State devices, Applied Phys. Series, Pion Ltd. Bristol (U.K.) (1970)
4. The Molecular Physics of Liquid Crystals, Edts. G.R. Luckhurst & G.W. Gray, Academic Press (1979)
5. Ferroelectrics: An Introduction to the Physical Principles, J.C. Burfoot, D. Van Nostrand Comp. Ltd. (1967)

(A) Atomic Physics

- U-1 Introduction to Atomic Physics, electromagnetic spectrum, Quantum numbers associated with electrons in atoms. Energy level diagram for one-electron atoms, space quantization, Larmor's theorem, Magnetic moment and Bohr magneton, Doublet fine structure and spin of electron, composition of angular momenta in many electron atoms, L-S coupling, Energy levels for equivalent and non-equivalent electrons in atoms, J-J coupling in heavier elements, the branching rule, Hund's rules. (10)
- U-2 Nuclear spin and magnetic moment, interaction between nuclear and electronic magnetic moments, Hyperfine structure, Lande's interval rule, normal and inverted hyperfine structure. (5)
- U-3 Interaction of radiation with atoms, energy density of radiation in a blackbody cavity, quantization of field energy, spontaneous and stimulated emission. Absorptions, transition rates, electric and magnetic dipole interaction, Einstein's A and B Coefficients, Non-radiative decay, line broadening mechanisms, inhomogeneous and homogeneous broadening, working principle of He-Ne laser (11)

(B) Molecular Physics (only diatomic molecules)

- U-4 Interaction of atoms in the formation of molecules, open-shell and closed-shell interactions, covalent and van der Waal's interactions, Brief description of molecular orbital and Valence bond approximations for molecules and their comparison. (7)
- U-5 Nomenclature of molecular orbitals for homonuclear diatomic molecules, relative energy levels for molecular orbitals, electronic energy levels of homonuclear diatomic molecules, spin multiplicity and term symbols by Valence bond treatment, self consistent field orbitals for homonuclear diatomic molecules (7)

Text Books

1. H.E. White; Introduction to Atomic Spectra, Mc-Graw Hill (1934)
2. Martin Karplus and Richard N. Porter; Atoms and Molecules, w.A. Benjamin (1970)
3. G. Herzberg; Spectra of Diatomic Molecules, Van Vostrand(1950)
4. O. Svelto; Principles of lasers, Plenum Press (1976)

Reference Books

1. G. Herzberg; Atomic Spectra and Atomic Structure, Dover Publications (1944)

1. Determination of paramagnetic susceptibility and Weiss Magnetron number by Quinck's method
2. Study of linearly, circular and elliptically polarized light.
3. Measurement on the He-Ne laser lines near 6330 Å
4. Hysteresis loop studies of ferroelectric crystals
5. Neutron Activation Studies
 - (i) Irradiation of In, by a neutron source and analysis of the decay curves for half-lives of the components.
 - (ii) Estimate of absolute activity and relative cross-section
6. Study of Alpha spectrum using a surface-barrier detector
7. Experiments with Scintillation spectrometer (Anyone of the following can be given in the exam.)
 - (a) To measure the complete spectrum of the gamma-rays from ^{137}Cs source and to determine the energy resolution of gamma-ray spectrometer.
 - (b) To calibrate the scintillation spectrometer and then determine the energy of the gamma-rays emitted by an unknown source.
8. Study of Compton Scattering of γ -ray from CS^{137} Source.
9. Molar extinction Coefficient using absorption spectrometer.
10. Study of Thermoluminescence of F-centres
11. Verification of Bragg's Law using X-ray diffraction unit.
12. Create a small program file & data file and execute the program.
13. Create a small programme file, copy of subroutine from the files and execute.
14. Create data of some Simple function $f(x)$ (Subroutine may be given for complicated function)
plot the $f(x)$ on a suitable scale.

Note: The manuals are supplied to the students where further references are mentioned.

5: 2: 3: (24)

IV Semester M.Sc (Physics)

Phys/541 : Thermal Physics

U-1(a) Classical Statistical Mechanics:

Phase space, Ensembles, Averages, Liouville Theorem
Equations of motion in phase space, equal a priori probability.
Statistical equilibrium, Microcanonical ensemble, Ideal Gas. (3)

(b) Quantum Picture

Microcanonical ensemble Quantization of Phase space,
Basic Postulates, Classical limit, Symmetry of Wavefunctions.
Effect of Symmetry on counting. Various distributions using
microcanonical ensemble, Ideal Gas. (4)

U-2 Statistical Mechanics and Thermodynamics

Entropy, Equilibrium conditions, Quasistatic processes,
Entropy of an ideal Boltzmann gas in microcanonical ensemble.
Gibbs paradox probability, Probability distribution and entropy
of a two level system. (5)

U-3 Canonical and Grand Canonical ensembles

Canonical ensemble, Entropy of a system in contact
with a heat reservoir. Ideal gas in canonical ensemble. Maxwell
velocity distribution Grand canonical ensemble, comparison between
various ensembles, ideal gas in Grand canonical ensemble. Third
law of Thermodynamics. Equation of state for quantum ideal gas (8)

U-4(a) Partition function

Canonical partition function, Translational, Vibrational,
rotational partition function, Vapour pressure and chemical
Equilibrium. (5)

(b) Ideal Quantum Gasses

Bose Einstein distribution, Condensation, Thermody-
namics of ideal Bose gas. Liquid Helium. Fermi Dirac Distribu-
tion, Degeneracy, Electrons in metals, nuclear matter, white
Dwarfs. (5)

U-5(a) Fluctuations

Fluctuations in ensembles, concentration fluctuations
in quantum statistics. Random walk and Brownian motion. Fourier
analysis of a random function. Electrical Noise (Nyquist
Theorem) (5)

(b) Cooperative phenomena

Phase transitions, Ising Model, Bragg-Williams approxi-
mation, Fowler-Guggenheim approximation one dimensional
Ising model. (5)

Text Books

1. Statistical Mechanics, B.K. Agarwal and Melvin Eisner, Wiley Eastern (1988)
2. Statistical Mechanics, K. Huang, Wiley-Eastern (1988)
3. Statistical Physics, F. Mandl, John Wiley (1971)
4. Fundamentals of statistical and thermal physics, F. Reif, McGraw Hill (1965)

Reference Books

1. Statistical Mechanics, S.K. Ma, World Scientific (1985)

IV Semester M.Sc (Physics)

Phys/542(a) Many Body Theory

U-1 Second quantization:

Many particle Hilbert space; creation and annihilation operators for Bosons and Fermions; commutation relations One body and two body operators. Schrodinger equation in second quantization. Electron gas (3)

U-2 Pictures in Quantum Mechanics: Schrodinger, Heisenberg and Interaction Pictures. Equations of motion of states and operators in these pictures. Time Development operator perturbation expansion in interaction picture. Operator adiabatic switching, Gellmann-Low Theorem (without proof) (8)

U-3 Greens Functions (Fermions)

Definition and properties. Relation to observables Green function for non interacting fermions. Greens function in Coordinate space and in momentum space (8)

U-4 Diagrammatic Analysis (Fermions)

Wick's Theorem. Diagrammatic analysis in coordinate space and momentum space. Dyson Equation self energy insertions, polarization insertions (8)

U-5 Fermi Gas

Goldstone Theorem Ground State energy upto second order. Hartree-Fock approximation. Hard sphere Fermi gas, Bethe-Salpeter equation and Ladder diagrams (8)

Text Books

1. A.L. Fetter and J.D. Walecka, Quantum Theory of Many particle systems, McGraw Hill (1971)
2. R.D. Mattuck, A Guide to Feynmann Diagrams in the Many Body Problem, McGraw Hill (1976)
3. P. Ring, Nuclear Many Body Problem, Springer, (1986)

Reference Books

1. D.J. Thouless, The Quantum Mechanics of Many Body Systems, Academic Press (1972)
2. D.A. Kirzhnits, Field Theoretical Methods in Many Body Systems, Pergamon (1967)
3. N.H. March, W.H. Young and S. Sampanthar, The Many Body Problem in Quantum Mechanics, Cambridge (1967)

IV Semester M.Sc (Physics)

Phys/542(b) Experimental Techniques

Part (A)

- U-1 Optical Techniques: Basic principles of double beam infrared
+ absorption spectrophotometers, Fourier Transform spectrometer,
2 Resolution, dispersion, slit function, double monochromator
optimization of signal to noise ratio (8)
- Basic principles and experimental arrangements for Doppler
free spectroscopy, coherent Antistokes Raman scattering,
Time resolved laser techniques (8)
- U-3 Low temperature and solid state techniques: Production and
measurements of temperature below 1 K, adiabatic demagnetiza-
tion and dilution refrigerators, measurements in mK range.
Superconducting properties of materials and their measurements.
Determination of crystal structure using X-rays techniques (9)

Text Books

1. Chemical Instrumentation, Howard A. Strobel, Addison-Wesley (1973)
2. Cryogenic fundamentals: C.G. Haseldon, Academic Press, (1974)
3. Physics Today pp 44-49, May 1977

Reference Books

1. Spectrophysics, A.P. Thorne, Chapman and Hall, London (1974)
2. Experimental Physics, R-A. Dunlap, Oxford University Press (1988)

Part(B)

Nuclear and Vacuum Techniques

U-4 Nuclear Techniques

(a) Formula for cross section for charged particle induced reactions, experimental determination of (charged particle reaction) cross sections. Kinematic coincidence technique. E-E measurement and particle identification. (3)

(b) Gamma-ray spectroscopy-gamma-gamma coincidence (fast-slow and sum-coincidence) and true to chance ratio, Compton suppression (anti-compton spectrometer); Efficiency of Ge(Li) and HPGe gamma detectors. (4)

(c) Production and detection of neutrons (^3He , BF_3 counters and plastic scintillator). Neutron activation technique for trace element analysis (basic ideas). (3)

U-5 Vacuum Techniques

Principles of operation of rotary, diffusion, ion and turbo molecular pumps. Vacuum measuring devices-thermocouple, penning and ionisation gauges. (5)

Text Books

1. G.F. Knoll-Radiation Detection and Measurement, John Wiley & Sons 2nd Edition (1979)
2. B.L.Cohen-Concept of Nuclear Physics, McGraw Hill (1971)
3. R.M. Singru - Introduction to Experimental Nuclear Physics, Wiley Eastern, New Delhi (1980)
4. G.W. Green, The design and construction of small vacuum system Chapman and Hall (1968)

Reference Books

1. Experimental Physics, R.A. Dunlop Oxford University Press (1988)
2. K. Siegbahn - Alpha, Beta, Gamma Ray Spectroscopy North Holland

IV Semester M.Sc (Physics)
Phys/543(a) Solid State Physics

- U-2 Plasmons, Polarons and Polaritons (5)
- U-2(a) Optical reflectance, Kramer-Kronig relations, electronic inter-band transitions, excitons, electron-hole droplets, Raman effect in crystals. (5)
- U-2(b) Diamagnetism and Paramagnetism, Langevin diamagnetism equation, quantum theory of paramagnetism, cooling by ^{adiabatic} demagnetization of a paramagnetic salt, paramagnetic susceptibility of conduction electrons. (4)
- U-3(a) Ferromagnetism and antiferromagnetism, ferromagnetic order, Magnons, neutron magnetic scattering, ferrimagnetic order, antiferromagnetic and ferromagnetic domains. (6)
- U-3(b) Nuclear Magnetic Resonance, linewidth motional narrowing, hyperfine splitting, nuclear quadrupole resonance, electron paramagnetic resonance. (4)
- U-4 Superconductivity, Basic phenomenology, Meissner effect, heat capacity, microwave and infrared properties, Isotope effect, thermodynamics of the superconducting transitions, London equation, coherence length, BCS theory, Type-I and type II superconductors, vortex state, AC and DC Josephson effect, High T_c superconductivity (8)
- U-5 Point defects, lattice vacancies, colour centres, dislocations (8)

Text Books

1. C. Kittel, Introduction to Solid State Physics, Wiley 6th Edition (1993)
2. J.M. Ziman, Principles of the theory of Solids, Oxford University Press (1974)

Reference Books

1. Physics of Defects, Eds. R. Balian et. al North Holland Amsterdam (1974)

IV Semester M.Sc (Physics)

Phys/543(b) High Energy Physics

- U-1 The Dirac Equation, covariant form of the Dirac Equation, Proof of covariance, space reflection, Bilinear covariants (4)
- U-2 Hole Theory, The problem of Negative Energy Solutions, Charge conjugation, vacuum Polarization Time reversal and other symmetries (6)
- U-3 Propagator Theory: The nonrelativistic propagator, Formal Definitions and Properties of Green's functions, The propagator in positron theory (8)
- U-4 Scattering: Coulomb Scattering of electrons, Trace Theorems, The spin-averaged coulomb cross section. Coulomb scattering of positron, Electron scattering from a Dirac proton (10)
- U-5 Bremsstrahlung, compton scattering, Pair Annihilation, Electron-Electron and Electron-positron scattering. Polarization in Electron scattering (12)

Text Books

1. J.D. Bjorken and S.D. Drell
Relativistic Quantum Mechanics
McGraw Hill International Edition.
2. J.J. Sakurai, Advanced Quantum Mechanics,
Addison-Wesley (1987)
3. S. Gasiorowicz, Elementary Particle Physics,
John-Wiley & Sons (1966)

Reference Books

1. P. Roman Advanced Quantum Theory Addison-Wesley(1965)

- 1(a) Introduction Scope and importance of Laser Physics, Laser idea, characteristic properties of lasers, negative temperature and population inversion idea, amplification in the medium. (3)
- (b) Pumping Processes: Optical pumping, pumping efficiency, pumping rate, electrical pumping, electron impact excitation, excitation by (Near) Resonant energy transfer, chemical pumping. (6)
- 2 Passive optical resonators: Need for a resonant cavity in a laser, mode discrimination with Fabry-Perot Cavities, the Fox and Li modes, Fresnel-Kirchhoff's integral formula; form for plane parallel resonator, confocal resonators, generalized confocal resonators and regions of high loss, optical coupling, model selection, importance of unstable resonators. (8)
- U-3 Laser theory: Laser threshold conditions, rate equations for the atoms and the laser photons for three-level and four level lasers, continuous wave laser behaviour, pumping power requirements and output power from three and four level lasers for steady state operation, discussion of Ruby, He-Ne, Argon, chromaticity and frequency pulling, Transient laser behaviour, step pump pulse excitation single and multimode oscillation, Q-switching, pulse shapes, mode locking of lasers, active and passive mode locking, theory of mode locking, multimode vs, single mode oscillations. (12)
- U-4 Properties of laser beams: Monochromaticity, degree of spatial and temporal coherence and their measurement, relation between temporal coherence and monochromaticity, Directionality and brightness of light beams (3)
- U-5 Few Important applications of lasers: Introduction, Laser in Science, Harmonic generation, stimulated Raman emission, self-focussing; Optical communication, introduction, information carrying capacity, modulation and demodulation of light waves, Modulators and detectors, Optical fibres. (8)

Text Books

1. G. Svelto, Principles of Lasers, Plenum Press (1982)
2. H.G. Unger, Introduction to Quantum Electronics, Pergamon (1970)
3. K. Thyagarajan and A.K. Ghatak, Lasers; Theory and Applications MacMillan India Ltd. (1981)

Reference Books

1. A. Yariv, Quantum Electronics, John Wiley & Sons, III Edition (1989)
2. W.R. Bennett, The Physics of gas lasers, Gordon and Breach, (1977)
3. R. Loudon, The Quantum theory of light, Oxford: Clarendon Press (1983)

IV Semester M.Sc (Physics)
 Phys/543(d) Nuclear Physics

- J-1 Optical Model at low Energy:- Phenomenological analysis of scattering and reaction cross sections. Partial wave analysis optical model of elastic scattering of charged and uncharged spin 0 and $1/2$ Particles.
- Foundations** of optical model and formal derivation of optical potential (Green, Sawada, Saxon). (8)
- U-2 Basic reaction theory:- The R-matrix and dispersion formula, one and two level Breit-Wigner formula and applications. Compound nucleus and statistical theory (Hauser-Feshbach theory) (7)
- J-3 Direct Reactions:- Kinematics of stripping and pick up proces. Theory of stripping reactions. Stripping reaction in Distorted^{wave} method. (5)
- J-4 Nuclear Interaction and many Body Theory:- Connection between N-N interaction and effective interactions, many body perturbation theory. Goldstone expansion Linked cluster, Ladder summation. G matrix and Bethe-Goldstone expansion. Reference spectrum approximation. Nuclear matter. Extension to finite nuclei-separation method. (10)
- U-5 Shell model:- Angular momentum coupling, Racah coefficients LS-JJ transformation. Tensor operators. Simple tensor products and their matrix elements. Justification of shell model. Harmonic Oscillator with strong spin orbit potential. Electric quadropole transition moments, Moshinsky brackets. Two body matrix elements. Slater integrals. Spectra of $^{18}_0$ and $^{18}_8\text{F}$ (with only S-State interaction). (10)

Text Books

1. M.K. Pal, Nuclear Structure, Wiley Eastern, New Delhi (1982)
2. Y.R. Waghmare, Introductory Nuclear Physics (1981)
3. T.A. Littlefield, Atomic and Nuclear Physics, Van Nostrand (1976)
4. R.R. Roy & B.P. Nigam, Nuclear Physics: theory and Experiment, Wiley Eastern Ltd (1971)
5. P.E. Hodgson, Nuclear Reactions and Nuclear Structure, Oxford Clarendon, Press (1971)
6. M.A. Preston, Physics of the Nucleus, Addison-Wesley Publishing Company (1962)
7. G.R. Satchler, Introduction to Nuclear Reactions, Macmillan, 2nd Edition (1990)

5:2:3:(40)

IV Semester M.Sc (Physics)

Phys/544 Project work

This will be a minor research/design/review work
in experimental or Theoretical Physics.

IV Semester M.Sc Physics
Phys/545 Environment

- U - 1. Introduction, Physical Basis, Public policy, Ecosystem, global changes, Energy pyramid, Biotic and abiotic factors. (7)
- U - 2. Pollutants, Fossil Fuels, Nuclear, Noise, Water Pollution, Microwave and High Voltage Pollution, Modelling and predictions. (7)
- U - 3. Monitoring of environment. Laser based pollution detection, IR, X - ray fluorescence Atomic absorption techniques, Environmental Radiation detection. (6)

Recommended Books

1. Environment Peter H. Raven
Lind R. Berg
Saunders College Publishing Co. (1993)
2. Introduction to Environmental Studies.
Third Edition Jonathan Turk
Saunders College Publishing 1989
3. Earth Science and Environment
Graham R. Thompson
Saunders College Publishing 1993
4. Fundamentals of Air pollution
Richard W. Bonbel
Academic Press 1994
5. Environmental Science
Karen Arms
Saunders College Publishing 1994
6. Energy R.A. Hinrichs
Saunders College Publishing 1991
7. Chemical Instrumentation
Howard A. Strobel
Addison-Wesley Publishing Co. (1973).

5: 5: 1: (1)

5: 5 - Examination matters-

- (i) Three Year Degree Courses with Annual System of Examination.

The Academic Council vide resolution No; AC: 52: 96: 5: 5: (iii) constituted a Committee to look into the present Three Year Degree Course with Annual System of Examination.

The Committee met on 26.4.96 and its minutes are placed at Annexure-'I'.

The matter is placed before the Council for consideration.

ANNEXURE-'I'

MINUTES OF THE MEETING OF THE SUB-COMMITTEE OF AC ON T.D.C.
WITH ANNUAL SYSTEM OF EXAMINATIONS HELD ON
26TH APRIL, 1996

A meeting of the Sub-Committee constituted by the Academic Council vide AC: 52: 96: 5: 5(iii) to look the various aspects of the Three Years Degree Course with annual System vis-a-vis the views of the Principals' Council of Meghalaya and the comments of the office, was held on 26th April, 1996 at 11:00 A.M. with the Pro-Vice-Chancellor, Mizoram Campus in the Chair.

After a brief introduction by the Chairman, the Committee has an exhaustive deliberation covering the background on the introduction of the New Three Years Degree Course with annual System, students' general performance and its relation with other Universities in the Country. The Committee unanimously resolved to recommend to the Academic Council as follows:-

1. The existing annual examination system be continued.
2. The student be allowed to repeat only in one paper in each of the examination within two chances.
3. The cut off marks for admission to the Degree Course Major shall be based on a minimum of 45% of the marks secured in the subject or 45% in aggregate on subjects not studied in the Plus Two level.

The meeting ended with a vote of thanks from the Chair. The following were the members present:-

1. Prof. R. Lalthantluanga,	P.V.C. Mizoram Campus	Chairman
2. Dr. A. Patton	Controller of Exams.	Convener
3. Prof. R. S. Tripathi	Dean, School of Life Sc.	Member
4. Smti. B. Tynthai	Principal, Seng Khasi & Secretary, Principals Council.	Member
5. Shri E. M. Sohkhlet	Principal, Synod College & Chairman, Principals' Council.	Member
6. Prof. J. P. Singh	Dept. of History	Member

Contd/.../-

5: 5: 1: (3)

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7. Dr.S.Jaiswal	Dept. of Public Admn.	Member
8. Dr.L.N.Singh	Dept. of Psychology	Member
9. Dr.Y.S.Chouhan	Dept. of Botany	Member
10. Dr.K.K.Kumar	Dept. of Physics	Member
11. Dr(Mrs) V.Tandon	Dept. of Zoology	Member
12. Shri T.B.C.Liandela	Principal, Kolasib	Member
13. Dr.C.Thanthianga	Principal, P.U.C.	Member
14. Dr.A.K.Baruah	Dept. of Political Sc.	Member
15. Dr.R.P.Bajpai	Dept. of Electronics	Member
16. Dr.R.Sharma	Dept. of Bio-Chemistry	Member
17. Dr.C.Nunthara	Dept. of Sociology	Member
18. Dr.H.K.Mukherjee	Dept. of Mathematics	Member
19. Dr.L.Zehol	Dept. of Anthropology	Member
20. Dr.M.A.Sudhir	Dept. of Education	Member

Sd/-Prof.R.Lalthantluanga,
Chairman

Sd/Dr.A.Patton
Convener

5: 6: 1: (1)

5: 6 - Establishment of new Deptts./Centres/Courses-

(i) Introduction of a course on Environment Awareness.

The Executive Council in its 88th meeting held on 4.12.95 vide resolution No:EC:88:95:5:6:(ii) resolved that a Committee consisting of the Dean School of Humanities and Environmental Sciences as Chairman and other Co-opted members be constituted to look into the matter of framing of the relevant courses i.e. at Post-Graduate and Under-Graduate level, on **Environment Awareness.**

The Dean, School of Human and **Environmental Sciences.** convened meetings of the Committee for the Under-Graduate level and its reports are placed at Annexure-A.

As regard the course at Post-Graduate level the report of the Committee is placed at Annexure-B

The matter is placed before the Council for consideration.

5: 5: 1: (2)

ANNEXURE - A

NORTH-EASTERN HILL UNIVERSITY
Mayurbhanj Complex, Nongthymmai, Shillong-793014

Prof. A.C. Mohapatra,
Dean,
School of Human & Environmental Sciences

No: F.53/SYLLABUS/SHES/96-354
Dated 30th March 1996

To,

The Vice-Chancellor,
North Eastern Hill University,
Shillong.

(Chair person, Executive Council, NEHU)

Subject:- Report of E.C. Committee on UG Course on Environmental Awareness.

Ref : No. EC: 88: 95: 5: 6: (ii) of 4.11.1995

Sir,

This is for your kind information that the Committee Constituted to frame the syllabus for a separate and Compulsory Course on Environment met twice, first on 19.3.96 and then on 26.3.96 and has framed the syllabus as directed by E.C. The minutes including the draft syllabus is enclosed for your kind perusal.

Yours Sincerely,

Sd/-

(A.C. Mohapatra)

Copy to :-

The Registrar, North-Eastern Hill University, (Non-member
Secretary, E.C. NEHU) Shillong.

M I N U T E S

Minutes of the E.C. Sub-Committee on Course on Environment held on 19.3.96 and 26.3.96 at 2.00Pm at the Department of Geography.

The following members were present in the meeting held on 19.3.96.

1. Prof.A.C.Mohapatra, Dean, SH&ES, in Chair.
2. Smt.E.Tymthai, Principal, Seng Khasi College, Shillong.
3. Mr.E.M.Sohkhlet, Principal, Synod College, Shillong.
4. Shri.D.K.Nayak, Reader, Geography Deptt., NEHU, Shillong.

In the second meeting held on 26.3.96 Prof.A.C.Sinha Dean, School of Social Sciences, NEHU, attended and Prof.R.S. Tripathi, Dean, School of Life Sciences communicated his inability to attend due to preoccupation.

The following decisions were taken.

1. The Committee agreed in Principle to frame a Course on Environmental Awareness at the UG level in lieu of the General Foundation Course. However, most members felt that the GFC should not be totally scrapped. Instead, it may be compressed to half of its present load so that the other half can be used for the new separate course on environment. But since the E.C. has already decided to introduce the course on Environmental awareness in lieu of GFC, the committee decided the following:
 - a) to prepare a course on Environment carrying a load equivalent to GFC.
 - b) to request the AC/EC by way of a note to retain GFC while adding the new course in 50:50 ratio.
 - c) In case the AC/EC agree with the committee's request note an exercise may be made by the committee to reduce course contents of both GFC and the course on the environment.
2. The structure of UG major and General may be retained and the course on environment be structured within the overall structure of the UG programme.
3. Structure of the instruction and evaluation of the course on Environment may be in line with the GFC. The Course may be taught in the 3rd year of UG Programme with 50 Lecture Schedules.
4. The course may have the following 10 units each carrying 10 marks.

TITLE : Man and Environment.

MARKS : 100

Broad objectives placed before the course.

The Course is designed with the following broad

Objectives :

- (i) to create an awareness among the students as to importance of environment in day to day lives;
- (ii) to inculcate in young minds the nature of symbiosis that characterize the living and the nonliving elements in nature;
- (iii) to keep students abreast of the environmental consequences arising out of irresponsible interventions into the eco-system;
- (iv) to enable the students appreciate the popular movements and scientific efforts in protecting and conserving environment and
- (v) to make them conscious of the environmental tradition and problems in the North-Eastern Region of the Country.

TITLE :

No. OF LECTURES : 50

UNIT - I

(CONCEPTUAL BACKGROUND)

Meaning of environment

Elements of Environment

Man's relationship with the environment and man-nature interdependence.

Need for environmental education

Define Eco-System, Ecology and Habitat.

UNIT-2

(RELATIONSHIP IN NATURE AND INTERRELATED NATURE OF LIFE ON EARTH)

Energy Path

Energy Flow

Energy Budget

Trophic Level, Food Chain and Webs. Concept of 'Community'

UNIT-3

(POPULATION AND ENVIRONMENT).

(World's) Population number, density and growth.

Malthusian doctrine and the concept of a stable population (demographic transition)

Population growth in recent times and its impact on global environment.

Concept of carrying capacity of environment. Contd.3/-

UNIT-4

(PRESSURE OF POPULATION ON INDIA'S ENVIRONMENT)

Trends in Population growth in India.

Identification of areas of high, medium and low density in India.

Impact of Population Pressure on India's food availability, water and natural resources.

UNIT-5

(ENVIRONMENTAL CONSEQUENCES OF HUMAN INTERVENTIONS -I)

Populations and Pollutants :

- a) Air
- b) Water
- c) Soil
- d) Noise
- e) Radiation
- f) Toxicity in food Chain.

UNIT-7

(EFFECTS ON BIO-SPHERE)

Species vulnerability:

Endangered Species

Genetic Resources

Concept of bio-diversity and bio-reserves.

UNIT-8

(ENVIRONMENT AS RESOURCE)

Concept of resource

Types of Resources : Renewable and non-renewable resources
shortages and over-consumption

Conservation of Resources and Alternative Strategies.

UNIT-9

(EFFECTS OF DEVELOPMENT)

Predicament of man and sustainable development.

Peoples movement in protecting environment.

the case of Green movement, Chipko movement, Bishnoi efforts

The Narmada debate.

UNIT-10

(ENVIRONMENT AND NORTH-EAST)

Extent and type of forests in the N.E.

Extent, Processes, Causes of Deforestation in N.E.

Flooding and causes of Flooding in N.E.

Shifting cultivation and its impact on Land-degradation

Concept of watershed management.

SUGGESTED READING LIST

1. Arvill : Man and Environment; Crisis and Strategy of Choice.
Penguin, Harmondsworth, 1967.
2. Odum, E.P: Fundamentals of Ecology, Prentice Hall
3. Thomas, W.L(ed) : Man's Role in changing the Face of the Earth: University of Chicago Press, Chicago, 1956.
4. Ehrlich, P.A.H et.al : Eco-Science: Population Resource and Environment, Freeman, San Francisco, 1977.
5. Meadows, D.L.& : The Limits to Growth, London,
D.Meadows.
6. A.C.Mohapatra et.al(ed) : Population problems, NEHU Foundation
Course Series, Shillong 1983.
7. Sinha, A.C(1993) : Beyond the Trees, Tigers & Tribes :
Historical Sociology of the Earth Himala-
Himalayan Forests (Chapter IV,V & VI) Har
Anand Pub, Delhi.

Contd.....5/-

RECOMMENDATION - 5

It is recommended that

- (i) in line with GFC, a study material for this course be prepared by NEHU.
- (ii) NEHU may also Organize orientation courses for atleast two teachers from each college for servicing the suggested course.
- (iii) It was recognised that colleges, teaching humanities only might find difficulties in servicing the course. They may approach the respective state govts. for a seperate post (full or parttime) of science teacher for the purpose.

Sd/-

(Prof. A.C.Mohapatra)

Dean

School of Human & Environmental Sciences

North-Eastern Hill University

Shillong.

Convenor of the Committee

Dated 30.3.1996
Shillong.

SSG/24/4/96)

NORTH-EASTERN HILL UNIVERSITY
 Department of Geography, Mayurbhanj Complex, Nongthymmai,
 Shillong-793014, INDIA, Tel: 91-0364-228499/223325(R) Fax:
 91-0364-760076.

Dr. A. C. Mohapatra
 Professor & Dean

School of Hu. & Env. Sciences
 Tel. 0364-227763

53/SHES/Syllabus/363.

No. /96
 April 19, 1996

The Vice-Chancellor,
 North-Eastern Hill University,
 (Chairman, EC, NEHU)
 Shillong.

Subject :- Compulsory course on Environment at P.G. Level.

Ref : No. EC: 88-4/Conf/95-3827 dt. Dec 6, 1995 (EC Resolution No. EC: 88: 95: 5: 6(ii) of 4.11.95.

Sir,

This is for your kind information that the task entrusted by the Executive Council of NEHU vide reference as above has been completed. The committee on P.G. syllabi had met on March 15, 1996 as scheduled. The decisions of this Committee which included all the P.G. HoDs at NEHU Shillong Campus as well as all the deans of schools were conveyed to all the P.G. departments to frame the courses as directed by the EC. (A copy of the minutes of the relevant meeting is enclosed for your kind information and perusal) We have received response from 11 P.G. departments of Shillong Campus and the rest 6 have not responded as yet. (The list is enclosed). Of the 11 P.G. departments 9 have already framed the courses and are at various stages of approval through appropriate statutory bodies (copies of the course enclosed). The other two have indicated that they are in the process of framing the courses. In case of the department of Philosophy, they have framed the course as a unit of a full course (25%) which is at variance with the relevant directive from the EC.

We have already sent the details of the course structure and recommendations of the U.G. Committee for the purpose which met twice, on 19.3.96 & 26.3.96.

I regret that there was some delay in sending our final reports on the P.G. level courses, since we were waiting response from the departments.

Cond...P.2)

3. It was also resolved that there may be departments who may find difficulty in designing of the course. In such cases (a) they could adopt a course of a sister department by inclusion of this course into ~~their~~ syllabus through appropriate processes. They may also ensure that the Deptt offering the course has a firm Commitment to service teaching/practicals of students of the adopting department.
- (b) Some departments may wish to have an expert to frame the course. They may do so, but with prior approval of the Vice-Chancellor to invite such an expert to complete the task assigned by the E.C.

The meeting ended with a vote of thanks from the Chair at 3.00 p.m.

Sd/-

(PROF. A.C. MOHAPATRA)

Dean

School of Human & Environmental Sciences
NEHU, Shillong.

SSG/25/4/1996

LIST OF P.G. DEPARTMENTS

(COURSES FRAMED AND RECEIVED)

1. Political Science Department - Courses being framed
2. Department of History - -do-
3. Department of Education
4. Department of Economics
5. Department of Geography
6. Department of Zoology
7. Department of Bio-Chemistry
8. Department of Philosophy
9. Department of Anthropology
10. Department of Chemistry
11. Department of Library Sciences.

(No response yet)

1. Math Department
2. Department of Botany
3. Department of Sociology
4. Department of English
5. Department of Khasi
6. Department of Physics

Sd/- A.C.Mohapatra
Dean

School of Human and Environmental Scien
NEHU::: SHILLONG

SCHOOL OF HUMAN & ENVIRONMENTAL SCIENCES
NORTH-EASTERN HILL UNIVERSITY: SHILLONG.

M I N U T E S

Minutes of the E.C. Sub-Committee on Post Graduate Course on Environment held on 15.3.96 at 1.30 P.M. at Mayurbhanj Seminar Hall.

The following members attended the meeting :-

1. Prof.S.N.Bhat, Dean, School of Physical Science NEHU, Shillong
- Member.
2. Prof.M.K.Mohanti, Nominee, Head Dept. of Chemistry-Member
3. Prof.Kamal Kumar, Head Dept. of Physics NEHU.
4. Dr.(Mrs)R.Borgohain, Head Dept. of Pol.Science,NEHU.
5. Dr.S.C.Daniel, Nominee Head Dept. of Philosophy,NEHU.
6. Prof.S.K.Mishra,Head Dept. of Economic, NEHU.
7. Dr.D.K.Nayak, Nominee,Head Dept. of Geography, NEHU.
8. Dr.T.Subba, Nominee Head Dept. of Anthropology, NEHU.
9. Prof.P.K.Mishra, Special Invitee, Anthropology Dept,NEHU
10. Prof.A.C.Mohapatra,Dean,SH & ES,NEHU,Convener in Chair.

The Sub-Committee after detailed discussion on the relevant E.C.resolution and the letter of the Ministry of HRD, GOI,recommended the following.

1. The course shall be compulsory and separate as per E.C. resolution. It also shall be of MA/MSc. standard specific to the discipline since sensibilization aspect will be taken care of at the Under Graduate level.
2. The course will be designed by the P.G. Departments within the overall structure of the syllabus of the given discipline. The actual weightage is to be decided by the Department in commensurate with the letter and spirit of the Apex Court's decision and E.C. resolution. The course so designed and approved by the Department has to go through the appropriate bodies/authorities of the University. This could be done with holding of BFGS(regular/local) in the month of April,1996 so that the matter could reach A.C. scheduled in May. A copy of the syllabus so designed and approved by the Department may be sent to the Convener, E.C., Sub-Committee (the undersigned) on or before March 1996 so that the submission of the report Chairman, E.C.,NEHU, could be completed before the deadline of March 31,1996.

I must also put on record my personal appreciation ~~Co-Oper-~~
~~ation of members~~ the two committees representing the departments and
taking some pains in framing the courses at the level of the
departments.

Thanking you

Yours sincerely,

Sd/-

A.C.Mohapatra

Copy to AR (Conf)

NEHU Shillong for information & necessary action

A.C.Mohapatra

(ii) Impact on NEHU in the event of establishment of a Mizoram University and taking over of College or opening of a University College in Shillong/Jowai.

The Academic Council vide resolution No.AC:52:96:5:6(iii) constituted a Committee to look into the preparation of a contingency Plan in the event of the establishment of a Mizoram University.

The Committee met on 7th.March,1996 and 9th.March,1996 and its minutes are placed at Annexure I and II.

Further, NEHU representatives consisting of - 1) Pro-Vice-Chancellor, Mizoram Campus, 2) Prof.A.C.Sinha and Prof.H.Junjappa also met the State Government Officers of Mizoram on the issue on 24.4.96. The minutes of the meeting are placed at Annexure III.

A Team from NEHU also went to the UGC and Ministry of Human Resource Development(Deptt.of Education), New Delhi, and had discussion with the concerned authorities. The minutes is placed at Annexure IV.

On the matter regarding taking over of College, the Committee constituted by the Academic Council is also to look into the taking over of College or opening of a University College in Shillong/Jowai. The members from NEHU met the concerned authorities from the Government of Meghalaya on 8.3.96 and discussed the matter. The minutes is placed at Annexure V.

The matters are placed before the Council for consideration.

ANNEXURE-'I'

Minutes of the Committee appointed by the Academic Council to prepare the contingency Plan to meet the possible impact on NEHU in the event of the establishment of a Mizoram University.

The Committee met on 7th of March, 1996 in the Conference Room of the Vice-Chancellor at Shillong. The following members were present:

1. Pro-Vice-Chancellor
NEHU, Mizoram Campus, Aizawl in the Chair
2. Prof. M. N. Karna
3. Prof. A. C. Sinha
4. Prof. R. S. Tripathi
5. Prof. M. S. Sangma
6. Principal,
Pachhunga University College,
Mizoram, Aizawl.
7. Dr. S. Ganguly
8. Assistant Registrar (Conference)

At the outset the Committee resolved to express its concern over the recent attempts to dilute the unique structure of the North-Eastern Hill University as the University catering to the special needs of the people of the Hill areas of the North Eastern Region of India as envisaged in the NEHU Act, 1973 passed by the Parliament. Recent attempts to restrict its sphere of activities have therefore to be viewed with concern.

The Committee was informed that the P.G Centres at Aizawl consists of the departments of Economics, English, Education, Social Work, Forestry, Geology, Public Administration and Psychology with a present total teaching staff of 25 and 106 non-teaching staff. In the event of establishment of Mizoram University the Committee recommends that the Departments of Psychology, Forestry and Geology may be shifted to Shillong while the rest of the Departments may be shifted to the Tura Campus. As regards the non-teaching staff they may be posted according to the administrative convenience of the University.

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As regards Pachhunga University College the Committee noted that its present staff consists of 101 teachers and 93 non-teaching staff. The Committee deliberated at length on the shifting of the College and resolved that though it would be preferable to start our own model University College, under the present circumstances and within the time frame allowed such a proposal will neither be viable nor feasible. Since there are only two full-fledged Government Colleges in the State of Meghalaya, one at Tura and the other at Jowai and as the University has already set up a Campus at Tura it will be more appropriate if steps are taken by the University to negotiate with the Government of Meghalaya for taking over of one of the Government Colleges. It was decided that a small team of the Sub-Committee consisting of Prof. Lalthantluanga, Pro-Vice-Chancellor Mizoram Campus, Prof. A.C. Sinha, Prof. M.N. Karna and Prof. M.S. Sangma O.S.D. Tura Campus will meet representatives of the Government of Meghalaya to explore the possibilities.

As regards the assets of NEHU in Mizoram, since the Mizoram University is going to be a state University, the question of handing over of the assets to them does not arise; hence the Committee recommends that NEHU should withdraw all its movable assets from Mizoram which may be utilised at any of the Campuses. Regarding immovable property, they may be handed over to the State Government of Mizoram on payment of compensation.

It was decided that a second meeting of the Sub-Committee will be held on 9.3.96.

The meeting ended with a Vote of thanks from the Chair at 2:30 P.M.

Sd/-Prof. R. Lalthantluanga
Chairman of the Committee

ANNEXURE-'II'

Minutes of the 2nd meeting of the Committee appointed by the Academic Council to prepare contingency plan to meet the possible impact on NEHU in the event of establishment of Mizoram University.

The Committee met on 9.3.96 in the Conference room of the Vice-Chancellor NEHU, Shillong at 9:30 A.M.

The following members were present:

1. Prof.R.Lalthantluanga,
Pro-Vice-Chancellor, Mizoram Campus, Aizawl-in the Chair
2. Prof.M.N.Karna
3. Prof.A.C.Sinha
4. Prof.H.Junjappa
5. Prof.M.S.Sangma
6. Prof.N.Malla
7. Prof.R.S.Tripathi
8. Dr.C.Thanthianga

The draft minutes of the meeting held on 7.3.96 was read and approved.

The team of the Sub-Committee reported that discussion was held with representatives of Meghalaya Government represented by the Education Minister, Commissioner of Education and D.P.I. in the office chamber of the Education Minister of Meghalaya on 8.3.96 at 4:30 P.M. It was reported that the representatives of Government of Meghalaya welcome the proposal of the Sub-Committee that NEHU may take over one of the Government Colleges and they are of the opinion that Kiang Nongbah College at Jowai may be most suitable for adoption and they wanted NEHU to submit the proposal in writing, which may be done after receiving the minute of the discussion in the Minister's Chamber

The Committee recommends that these proposals if approved by NEHU, should be implemented only when the financial requirements for these as indicated below are provided.

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FINANCIAL REQUIREMENTS

1. The salary component of the employees of NEHU in Mizoram numbering about 400 will continue to be paid by the University, (NEHU).
2. A one time grant of Rs.8.75 Crores (Rupees eight crore seventy five thousand only) is required for creating infrastructure including rental, laboratories and purchase of equipment and furniture for Shillong, Tura and Jowai;
 - (a) five post graduate, department at Tura, (Social Work Education, Economics, Public Administration and English)
 - (b) three post graduate departments (Geography, Forestry and Psychology) at Shillong.
 - (c) eighteen under graduate departments at Jowai,
 - (d) salaries of the employees (both teaching and non-teaching) of the adopted College.
 - (e) cost of shifting from Aizawl to Tura, Shillong and Jowai.
 - (f) recurring expenditure and contingency for running the adopted college till it becomes the part of our regular budget.

The meeting ended with a vote of thanks from the Chair at 11:30 A.M.

Sd/-R.Lalthantluanga
Chairman of the Committee

ANNEXURE-III

ON 24.4.96 AT 9 AM IN THE MIZORAM SECRETARIAT CONFERENCE HALL ON ISSUES RELATING TO ESTABLISHMENT OF STATE UNIVERSITY IN MIZORAM.

The following were present:

State Govt. Officers

1. Pu Lalfakzuala, Chief Secretary
2. Dr. R. Padmanabhan, Financial Commissioner
3. Pu C. Naga, Secretary, Education
4. Pu. P. Chakraborty, Secretary, D. J
5. Pu Ramhluna Kiangte, CE, PWD
6. Pu R. N. Singh, Deputy Secretary, HTE
7. Dr. H. Malsawma, Jt. Director (A) HTE
8. Pi B Sangkhumi, Jt. Director HTE

NEHU Representatives

1. Dr. R. Lalthantluanga, Pro-Vice-Chancellor
2. Prof. A. C. Sinha, Dean, School of Social Sciences
3. Prof. H. Junjappa

Chief Secretary presided over the meeting, while welcoming the Pro-Vice-Chancellor and his team of Officers, Chief Secretary in his opening. . . . stated that NEHU is a mother institution to which Mizoram is an essential part, NEHU has, over the years, created some assets, both moveable and immovable, to provide academic facilities to the students of Mizoram. With the establishment of a State University in Mizoram, NEHU will cease its functioning in Mizoram and consequently, the assets and liabilities of NEHU, in so far as Mizoram is concerned, may have to be transferred to the State University. State Government is of the view that for parting with the assets and liabilities, there may not arise any question of compensation because the creation of assets by the NEHU was meant for the benefit of the students of Mizoram. He mentioned that when the reorganisation of States

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took place and Mizoram became Union Territory, Govt. of Assam handed over all the assets to the Union Territory, of Mizoram administration without either moving any of their assets or claiming compensation thereof. This might have been the case of Meghalaya also when it emerged out as a new state. Keeping this principle in view, he stated that it would not be desirable to move out anything from Mizoram by NEHU as and when the in Mizoram. However, both NEHU and the State Govt. may deliberate upon the issues with all its implications and arrive at a consensus for the purpose of making out a Memorandum of Understanding in pursuance of the decision taken in the meeting held on 4th. April '96 at

2. Dr. R. Lalthantluanga, Pro-Vice-Chancellor, NEHU while appreciating the view expressed by the Chief Secretary, stated that NEHU has certain problems in regard to transferring the assets to the state Govt. or the State University, as the case may be, without asking anything in return thereof because investment made by NEHU on the creation of assets in Mizoram will not be available from any other source. Although a clear picture is not available at the moment, there is every likelihood that a sizeable number of employees of NEHU serving in Mizoram will decide to remain with NEHU. In order to rehabilitate them, NEHU will require funds for creation of faculties elsewhere within its jurisdiction. Neither Govt. of India nor UGC will come to their aid if this is not settled at the time of reaching an understanding for establishment of a State University in Mizoram. He referred to their experience when Nagaland Central University was established. Since everything of NEHU was transferred to Nagaland Central University without taking into account as to how the additional expenditure arising out of the establishment of Nagaland University would be met by NEHU, a lot of administrative and financial difficulties are being faced by NEHU till now. With a view to avoid this kind of situation to develop again, NEHU cannot part with

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the assets created by them in Mizoram without adequate provision of resources to meet the liability of NEHU arising out of the establishment of a State University in Mizoram.

3. Prof.A.C.Sinha of NEHU explained in greater details the various implications of transferring the assets to the State University. While dwelling on the stand of the State Government on the transfer of assets, he stated that NEHU has a greater role of looking after the academic interests and development of North Eastern States as a whole. He does not think in terms of parting with Mizoram as a result of the State University coming up there. He stressed upon the relationship which NEHU would very much like to maintain even after the State University is established. On the question of compensation, he stated that it would not be possible for NEHU to transfer the assets without asking for any compensation on the ground that NEHU would be required to create adequate job opportunity for those who would not like to join the new University. It is not only the question of meeting their expenditure on account of salaries but NEHU may have to make other infrastructure available for utilisation of their services in a manner conducive to the academic interest of NEHU. If the matter is left to NEHU alone to take up with the Government of India or UGC

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NEHU

it would not be possible for the / to secure additional financial assistance for the purpose. Hence, he strongly feels that State Govt. should also be a party to solve the problem of NEHU. The situation arising out of the reorganisation of States is something different from the situation obtaining in respect of NEHU while withdrawing its activities from Mizoram to pave the way for establishment of a State University in Mizoram. He did not consider it prepare to fikkiw the same principle.

4. Prof. Junjappa of NEHU stated that the entire issue is linked up with the status of employees of NEHU serving in Mizoram. It will be the responsibility of the NEHU to accommodate all those employees who decide to stay back in NEHU and make suitable arrangement for them. This will require additional resources which they may have to settle at this stage; otherwise NEHU will lad up in greater trouble. He, therefore, supported that NEHU should be adequately compensated for whatever assets they may have to part as a result of establishment of a new State University of Mizoram. Unless this is done, there will be no other avenues to solve their problem.

5. Secretary, Education, Govt of Mizoram while reacting to the views of the NEHU stated that nehu is currently composed of Meghalaya and Mizoram only. Mizoram is not only a part of NEHU but has also its share in it. If this position is agreed to, there cannot be any question of payment of compensation. He urged that with the establishment of a State University in Mizoram, all assets and liabilities of NEHU in Mizoram may be transferred on "as is where is basis". This was exactly done at the time of reorganisation of the States. He also mentioned that at the time of handing over the Pachhunga University College to the NEHU, the State Govt. handed over all its assets without asking discussed at New Delhi on 4.4.96 when Vice-Chancellor, NEHU was also present. Although no final decision was taken there, Ministry of

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HRD was of the view that since Mizoram is a special category State, it will be the responsibility of the Govt. of India to provide funds in case compensation is to be given. Source of funding remaining the same whether it is Mizoram or NEHU, it would not be fair to insist even payment of any compensation on this account.

6. On the basis of what has emerged out of the views expressed by the State Govt. and the NEHU all the points of issue were discussed at length at the instance of the Chairman. After having the matters deliberated upon, the following position has emerged:-

(i) Land at Tanhril:-

The State Govt. has selected the land at Tanhril for the establishment of State University. The land was acquired by the State Govt. and handed over to NEHU for setting up their campus. NEHU has deposited Rs.35.00 lakhs to the State PWD for construction of their administrative buildings at Tanhril. The work has been entrusted to State PWD for construction. The State PWD has also started the work. Depending upon the progress of the construction, NEHU would release more funds to complete the work. In the meantime, State Govt. has been given Rs.4.00 crores by Govt. of India for carrying out preliminary works for establishment of State University at the same site. Since the land at Tanhril belongs to NEHU, the State Govt. has sought for the permission of the NEHU to utilise the funds for undertaking the preliminary works. It is pointed out by the Pro-Vice-Chancellor, NEHU that while they do not have any objection in allowing the State Govt. to utilise the funds for their works at the same site, be stated that an Architectural Firm has already been engaged for the construction of their buildings. If they do not fulfil the agreement made with the Architectural Firm, some legal complications may arise because the Firm may go to the Court of Law for violation of the contract agreement. E, PWD

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Govt. of Mizoram suggested that the contract agreement with the Architectural Firm already entered into by the NEHU may be terminated after completion of the six buildings which they have been engaged. Since the details of the Contract agreement are not available, it is suggested that CE, PWD Govt of Mizoram in consultation with the Engineering Cell of the NEHU may find out what course of action should be taken to settle this problem. For obvious reasons, it would not be possible for the State Govt. to make any commitment to carry on with the some Architectural Firm already in contract with the NEHU for the purpose of construction the buildings of the State University. Subject to overcoming these legal complications and on condition that whatever works to be undertaken by the State Govt. should not come in conflict with the building up of infrastructure for the NEHU. NEHU does not have any objection to permit the State Govt. for undertaking any preliminary works at the site at Tanhril. The ownership of the land will, however, -----

(ii) Assets & liabilities: With regard to transfer of assets and liabilities of NEHU in Mizoram to the State University, it is, after long deliberations, agreed that the assets and liabilities of NEHU in Mizoram will, come over to the State University on "as is where is basis" on condition that Govt. of India or the UGC, as the case may be, should provide adequate funds for creation of parallel academic facilities to the employees of NEHU deciding to stay back with NEHU immediately after the State University is established in Mizoram. For this purpose, NEHU will work out their financial requirement and furnish the same to the Ministry of Human Resources Development, Government of India or UGC. The provision of additional funds to NEHU is considered necessary because neither the State Govt. has the resource to meet their requirement nor NEHU can meet the liability out of its sanctioned Budget.

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(iii) Employees of NEHU in Mizoram: With regard to the employees of NEHU serving in Mizoram, the State Govt. of Mizoram is agreeable to consider the absorption of those employees of NEHU serving in Mizoram who would be willing to come to the State University subject to the following conditions:-

(a) Cases of those employees willing to come over to the State University will be screened by a competent authority appointed by the State University;

(b) On absorption, they will be governed by the terms and conditions of service as may be applicable in respect of employees of State University;

(c) If some of the faculties now run by the NEHU in Mizoram are not continued by the State University, the cases of the employees of those subject even if they are willing to come over to State University may not be considered.

(d) NEHU will remain responsible for making prorata contribution for pensionary and other liabilities as per provisions of CCS(Pension) Rules, 1972 in respect of employees absorbed in State University.

(e) Those employees absorbed in the State University will be given their last pay protection as per rules.

Pro-Vice-Chancellor, NEHU pointed out that although other things may remain the same in respect of pay and allowances in the State University, the employees of NEHU serving in Mizoram are entitled to get SDA and HRA at higher rates which may not be available with the pay structure of the State University. He therefore, urged that State Govt. of State University, as the case may be, may consider giving protection of total emoluments instead of limiting it to basic pay protection while absorbing them to State University. If this is not done, the employees will stand to lost and may not be willing to serve the State University. Prof. A.C.Sinha is of the view that question of giving option to the employees of NEHU is not relevant to the issue, NEHU would not

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like to ask option from any of their employees. This matter may be left to the employees themselves and should be kept outside the purview of Memorandum of understanding.

The meeting after careful consideration of this point decided that since this is a matter in between the State University and the employees of the NEHU, it is not considered necessary to make any specific decision on this issue. This aspect may be taken care of after the State University is set up.

(iv) Pachhunga University College: It is agreed that the Pachhunga University College currently managed by the NEHU may be taken over by the Mizoram State University and maintained as a constituent College of the State University in the same manner as is done by the NEHU.

(v) Transitory period: It is brought to the notice of the meeting that after the State University Bill is passed by the Assembly, it will take quite something to establish the University and make it functioning. It is, therefore, necessary that during the transitory period, there should be some arrangement so that NEHU may continue to function till such time the State University is in a position to start actual functioning. On this issue, it is stated by the representatives of NEHU that NEHU will undertake the responsibility of conducting the examination and award the degree to those students already admitted in their affiliated Colleges during the time NEHU has the jurisdiction over Mizoram. Once the State University Act comes into force and the admission of students starts under the Mizoram State University, NEHU cannot function in Mizoram or take any responsibility of such students. They suggested that for overcoming the difficulties during the transitory period, the State University may secure the services of NEHU employees on deputation which may extend for a period of one year only. During this one year time, the new University should make its own arrangement. However, in case the new University faces any problem of conducting examination, NEHU is agreeable to hold the examination on behalf of the State University on payment

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of suitable remuneration. On careful consideration of the point at issue, it is suggested that while the State University will make endeavour to start functioning with effect from 1997 academic session, the State Govt. may notify

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in such away that the State University may get as long a time as possible to start their academic session in case they are not in a position to do so from 1997 academic session. At the same time, State University may also secure the help of NEHU in conducting examinations in the event of any difficulty being faced by them for this purpose.

(vi) Grace Marks: The State Govt. wanted that the existing system of admission into Post Graduate classes in NEHU on the basis of 10% grace marks in respect of students coming out of the NEHU affiliated Colleges of Mizoram may continue even after the State University is established. The representatives of NEHU explained their difficulties of continuing this system and informed that they have also discontinued this system in respect of Nagaland University. NEHU having disagreed to this proposal the proposal of the State Govt. is shelved at this stage.

7. During the course of discussion, the representatives of NEHU pointed out that they are not in a position to execute any Memorandum of Understanding with the State Govt. without the approval of the Executive Council of NEHU. Whatever agreement has been reached in this meeting has to be placed before the Executive Council of NEHU and only after they approve the same, the Memorandum of Understanding will be drawn up and executed. In view of this position, it is decided that NEHU may obtain the approval of their Executive Council to the acceptance of the decisions taken in this meeting and communicate the same to the State Govt. at the earliest so that a Memorandum of Understanding may be drawn up and signed.

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The meeting ended with a vote of thanks to the Chair

Sd/-C.Nag

Secretary to the Govt. of Mizoram
Education & Human Resources, Department.

Memo No.B.16027/2/87-EDN/Pt. : Dated Aizawl, the _____ April, 1996.

Copy to:

1. P.S to the Chief Minister, Mizoram
2. P.S to the Minister, Education.
3. P.S to the Minister of State/Higher & Technical Education.
4. P.S to the Chief Secretary, Mizoram.
5. Secretary, Ministry of Human Resources Development, Department of Education, Govt. of India, New Delhi.
6. Vice-Chancellor, NEHU, Shillong.
7. Chair Person, University Grants Commission, New Delhi.
8. Addl. Secretary, Ministry of Human Resources Development, Department of Education, Govt. of India, New Delhi.
9. Director, Ministry of Home Affairs, Govt. of India, New Delhi.
10. Director, Ministry of Human Resources Development, Govt. of India, New Delhi.
11. All Officials of Govt. of Mizoram present in the meeting.
12. Pro-Vice-Chancellor, NEHU, Mizoram Campus, Aizawl.
13. All Officials representing NEHU in the meeting.
14. Directors, Higher & Technical Education/School Education.

Annexure IV

A BRIEF REPORT ON THE VISITING TEAM FROM NEHU TO MHRD AND UGC ON 11.3.96 AS PER EC RESOLUTION DATED 8.3.96.

The NEHU Team consisting of the Vice-Chancellor, Pro-Vice-Chancellor, Mizoram, Prof.H.Junjappa and Prof.A.C.Sinha met the Officials of the MHRD, Sarvasri N.Masood and D.K.Paliwal at 12.30 p.m. on March 11, 1996 in the Office Chamber of Shri Masood. The Vice-Chancellor submitted a letter to the MHRD on the basis of the interim report of the AC and EC Committee on Mizoram University requesting for a financial provision of Rs.8.75 crores in the event of the establishment of the proposed Mizoram State University. All the members of the team participated in the discussion emphasising the need to transfer all the movable assets of NEHU from Mizoram Campus to either Shillong or Tura Campus; and in case of immovable properties a reasonable compensation be paid by the concerned authorities. The need to have a Constituent College within Meghalaya in order to accommodate the teachers and staff from Pachhunga University College who may opt for NEHU was also deliberated upon. The discussion was inconclusive in view of the fact that the representatives of Mizoram Government, the UGC, and other concerned Ministries were not present.

At 2.30 p.m. on the same day, the NEHU Team met the Vice-Chairman of the UGC, Prof.N.C.Mathur and had a long discussion with him on the basis of the copy of the letter submitted to the MHRD. The Vice-Chairman appreciated the problems being faced by NEHU in the eventuality of the coming up of the Mizoram State University, and assured the team that the matter would be looked into. The visiting team could not meet the Chairperson as she was busy with some prior commitments.

On March 12, 1996 the Vice-Chancellor could meet the Chairperson at 2.30 p.m. and had a discussion with her along with the Vice-Chairman. The Chairperson noted all the points that had been raised in the copy of the letter submitted to the MHRD and assured that she would take it up with the MHRD.

The MHRD then fixed a meeting on April 4, 1996 at 4.30 p.m. to discuss on the matter along with the representatives of the Mizoram Government, the UGC, MHRD, Home and Law Ministries. The Vice-Chancellor re-iterated the stand taken by the visiting team which was fully supported by the Chairperson of the UGC. The question of making a provision for option of

teachers and staff of the Mizoram Camous, of NEHU was also discussed. While the representatives of Mizoram Government agreed to the proposal, they were of the opinion that the benefit of S.D.A. may not be paid to those who opt for Mizoram University. Similarly, the Vice-Chancellor opined that NEHU may not pay the Innerline Allowance for those who opt for NEHU. Ultimately, the Secretary to the MHRD who was the Chairman of the Meeting came to the conclusion that both the parties, that is, NEHU and Mizoram Government should sort out the matter and come out with a Memorandum of Understanding before the Bill is introduced in the Mizoram Legislative Assembly. The representatives of the Mizoram Government expressed their desire to have the meeting between NEHU and Mizoram Government during April 1996 so as to enable them to bring their Bill to the State Legislature sometime during July, 1996.

Sd/-B.Pakem
Vice-Chancellor,
NEHU, Shillong.

Copy to:-

1. Pro-Vice-Chancellor, NEHU, Mizoram Campus, Aizawl.
2. Prof.H.Junja opa, Department of Chemistry, NEHU, Shillong.
3. Prof.A.C.Sinha, Dean, School of Social Sciences, NEHU, Shillong.

MINUTES OF THE MEETING OF THE NORTH EASTERN HILL UNIVERSITY
SUB-COMMITTEE WITH THE HON'BLE MINISTER, EDUCATION MEGHALAYA
AT 4.30 P.M. ON 8.3.96.

- Present :
1. Shri C.B. Marak,
Minister, Education, Meghalaya.
 2. Shri G.P. Wahlang, IAS,
Commissioner & Secretary to the Govt. of Meghalaya,
Education Department.
 3. Shri L. Roy, IAS,
Director of Public Instruction,
Meghalaya, Shillong.
 4. Dr. Lalthantluanga,
Pro-Vice-Chancellor, NEHU,
Aizawl Campus, & Chairman of the
NEHU Committee.
 5. Dr. M.S. Sangma,
Pro-Vice-Chancellor, NEHU, Tura Campus.
 6. Dr. A.C. Sinha,
Dean, School of Social Sciences,
NEHU, Shillong.
 7. Dr. M.N. Karna,
Head of the Department of Social Studies,
NEHU, Shillong.

The meeting started with a word of welcome from the minister.

The leader of the North Eastern Hill University team, Prof. Lalthantluanga explained the purpose of the meeting. As part of their continuing effort to improve higher education, NEHU proposes to start a University College in Meghalaya in the pattern of Pachhunga University College, Aizawl. Such a College will serve as a centre of excellence and a model College for the other Colleges under NEHU.

The proposed College could either be a Government College (as was the case with Pachhunga University College) or a private College. It would also be a totally new College to be set up by NEHU. The idea was mooted that in the context of Meghalaya, a Government College could be taken over for this purpose, if the Government of Meghalaya agrees. In view

Contd/.../-

of the fact that the main Campus of NEHU is located at Shillong and that the Tura Campus of NEHU has been recently opened, locating the proposed University College in Jowai was suggested.

In response, the Commissioner & Secretary, Education opined that although Government is not averse to the idea, more details of the proposal will be necessary to enable the Government to take a final and conscious decision on the matter.

Although, the full implications of converting a Government College to a University College would have to be spelt out later, a few more points were explained by the NEHU team. It was clarified for instance, that as in the case of Pachhunga University College, option may be given to the existing staff to remain with Government or to be absorbed in the University. Even if Government is not immediately able to accommodate the persons who may opt to remain with Government the process could be stretched out over a period of time to enable Government to suitably relocate such staff.

Further, new departments in the proposed University College would be opened and major courses would be offered in all the subjects. As regards assets and liabilities, the NEHU may take over all of these from Government. However, the modalities would have to be sorted out in due course.

Finally the Minister, Education stated that Government agrees in principle to the establishment of a University College in Meghalaya by taking over a Government College. However, a formal decision will be taken after receipt of the proposal from NEHU.

The meeting ended with a vote of thanks to and from the Chair.

Dated Shillong. 8.3.96

Sd/-Shri C.B. Marak,
Minister, Education,
Meghalaya, Shillong

Memo No. CDS/op/NEHU-1/96/1 Dt. Shillong, the 13th March, 1996.

Copy forwarded to all concerned.

Sd/-Director of Public Instruction
Meghalaya, Shillong.

5:8:1:(1)

5:8- Others-

- (1) Rescheduling of papers taught in B.A/B.Sc in Economics.

The BUGS Economics in its meeting held on 23.9.95 RESOLVED to reschedule the papers taught in B.A/B.Sc (Economics).

The existing course schedule is placed at Annexure 'A' and the proposed course schedule at Annexure-'B'.

The matter placed before the Council for consideration.

5: 8: 1: (2)

B.A/B.Sc.Economics
Existing Course Schedule.

ANNEXURE- 'A'

Year (General)	II Year (General)	III Year (General)
Economics-I (Macro-Economics)	i. Economics-II (Micro -Economics)	1. Economics-III Indian Economic Problems (1)
Year (Major)	III Year (Major)	III Year (Major)
Economics-IV (Quantitative Techniques)	1. Economics-V (Advance Economic Theory)	1. Economics-VII (Econ. of Development and Planning)
	2. Economics-VI (Money, Banking & Pub. Finance)	2. Economics-VIII (Maths. for Economics)
		3. Economics-VIII (Adv. Statistical Methods)
		4. Economics-VIII (Adv. Monetary Theories)
		5. Economics-VIII (Econ. Development and Growth)
		6. Economics-VIII (Mathematical Economics)
		7. Economics-VIII (History of Econ. Development of UK, USSR & India)

The proposed course schedule is being placed before the Council for consideration.

The existing course schedule is being placed before the Council for consideration.

B.A/B.Sc.Economics
Proposed Course Schedule

Year (General.)	II Year (General)	III Year (General)
Economics-I (Intro-Economics)	1. Economics-II (Macro-Economics)	1. Economics-III Indian Economic Problems
Year (Major)	II Year (Major)	III Year (Major)
Economics-IV (Money, Banking and Public Finance)	1. Economics-V (Advance Economic Theory)	1. Economics-VII (Econ. of Development and Planning)
	2. Economics-VI (Quantitative Techniques)	2. Economics-VIII (Maths. for Economists)
		3. Economics-VIII (Adv. Statistical Methods)
		4. Economics-VIII (Adv. Monetary Theories)
		5. Economics-VIII (Econ. Development and Growth)
		6. Economics-VIII (Mathematical Economics)
		7. Economics-VIII (History of Econ. Development of UK, USSR & India).

- (ii) Representation of the Campus Head, Department of Economics, Aizawl.

The Campus Head of the Department of Economics at Aizawl has in a communication to the Chairman of the Academic Council of the University conveyed certain resolutions passed by the Faculty of Economics at Aizawl. Among other issues that he has raised is that the Campus Department has never been consulted for empanelment of Examiners and External Experts of the various Boards.

The matter was referred to the Head, Department of Economics, Shillong and he has stated that the Campus Department by convention has never been consulted for such empanelments.

Since such empanelments affect both the Departments at Shillong as well as the Campuses, it is suggested that where such matters are discussed in the Faculty meetings at Shillong a representative of the Campus Departments may perhaps be invited for the meetings.

The matter is placed before the Council for consideration.

- (iii) Reservation for SC/ST candidates for Post-Graduate Fellowship/Scholarship under NEHU.

As of today there does not exist any reservation policy for grant of NEHU Scholarship/Fellowship to SC/ST candidates. The only rules that currently exist are provided in the NEHU Prospectus published year which read as follows:-

"Fellowship/Scholarship :-

Junior Research Fellowships are open to persons who are below the age of 30 years and have obtained a Master's Degree of a recognised University securing a minimum of 55% marks and have qualified in the National Eligibility Tests.

A few NEHU Post-Graduate Scholarships are available to meritorious students who have passed their Honours Degree Examinations securing a minimum of 55% marks and are prosecuting their Post-Graduate studies at this University in subjects for which Post-Graduate Departments have been opened.

The University at its discretion may also award a scholarship to a fresh candidate of the final year class taking into account his/her performance at the previous examination if he/she has obtained at least 55% marks.

Note: 5% of the marks may be relaxed in the case of SC/ST students. However, a candidate who is in full-time employment will not be eligible for these award or scholarships."

As may be seen from the above provisions the only relaxation given to the SC/ST candidates for such award is only in terms of 5% marks relaxation. In consideration, therefore, of the constant correspondences received from the Ministry for reservation, the following reservation policy for award of Fellowship/Scholarships are proposed drawing analogy from the Ordinance on Admission to Post-Graduate Deptts.

1. The award of NEHU Fellowship/Scholarship may be made as follows:-

- i) Open Category - 40%
- ii) Reserved for SC/ST candidates - 50%

- iii) Vice-Chancellor's Quota for the following categories of students - 10%
- a) Students nominated by the Central Government
 - b) Unrepresented Backward Areas
 - c) Physically handicapped
 - d) Outstanding Sportsmen/Sports-women
 - e) Children of NEHU Employees
 - f) Employees with All India Transfer Liability excluding Private Organisations.
 - g) Donor Non-Resident Indians.

Note: Applicants under (iii) above are required to submit necessary documents in support of their claims.

2. In determining interse priority from amongst those claiming to hail from backward area the level of Literacy obtaining in that area may be taken as the guiding factor. For outstanding Sportsmen/Sportswomen, the level of participation at the Inter-University, State or Nationals, within the last three years only shall be taken into account. Proficiency in performing arts should be supported by suitable documents.
3. The office of the DSW will prepare consolidated list of all applicants, 40% of the awards shall be on the basis of merit and shall include SC/ST students who by merit can figure in the open list. For the remaining 50% awards, a list of candidates belonging to SC/ST will be prepared and the awards will be awarded to those candidates in order of merit.
4. Any or all of the available awards under category(iii) above will stand converted to category (i) if unfilled.

The above proposals may be considered by the Academic Council for decision and for making of suitable Ordinances/Regulations.

Item No: 7 FINANCIAL MATTERS:

7:5 others:

(i) Development Proposal during 9th. Plan Period.

The University is having an exercise for formulating the plan document of the University for submission to the University Grants Commission and the Ministry of Human Resource Development. The Planning Board of NEHU had been sitting last year on 30.8.95 and on 4th May, 1996. The Working Group which had been constituted by the Planning Board had been meeting from time to time (4th March, 1996, 28th March, 1996, 11th April, 1996 and 3rd May, 1996), on the questions relating to size of the Plan, the ratio of different categories of teachers, the priorities of the plan outlay between developmental works and the rest, as well as the vision of the University in future. One of the matters which requires the immediate attention and consideration by the Council is with regard to the re-structuring or re-organisation of centres in order to enable the Planning Board to come to a final decision in formulating the plan document. The idea for such re-organisation is by integrating the personnels of the centres with the appropriate departments without abolishing the centres. This will meet the three requirements : (i) the strengthening of the centres with the available allocation from the University plan fund with the assistance of the other personnels from the departments; (ii) to strengthen the faculty of the departments where they are presently facing shortage of teachers due to non-availability of plan posts; and (iii) to enable the junior faculty members to gain teaching as well as guiding research experiences for their career advancement; and in addition the experiences of the faculty members of the centres be made available to the departments.

This will not involve any additional financial requirements, and to a large extent we would be in a position to accommodate the other priorities in our Ninth Plan proposals.

Submitted for consideration and decision of the Academic Council.

PART I AGENDA PAPERS FOR THE FIFTH THIRD MEETING OF THE
ACADEMIC COUNCIL.

Contents

Page No.

Item No. 5 ACADEMIC MATTERS :

5: 1- Statute, Ordinance, Regulation & Rules-

- (ii) Revised Ordinances-OB-6, Management of maintained by the University. 5: 1: 4: (1-45)

5: 2- Syllabus-

- (iv) Revised Syllabus for M.A, Education, English, Khasi and Philosophy. 5: 2: 4: (1-32)
- (v) Syllabi on Environment- Deptt. of Zoology, Botany and Bio-Chemistry. 5: 2: 5: (1-7)
- (vi) Syllabi- Department of Economic and Department of Library Sciences. 5: 2: 6: (1-7)
- (vii) M.A/M, Phil Courses in Pol. Sciences, History and Sociology. 5: 2: 7: (1-18)
- (viii) Proposed Syllabus for the Department of Linguistics, NEHU, Shillong. 5: 2: 8: (1-22)

5: 3- Research-

- (i) Minutes of the meeting of the Sub-Committee to frame regulation on the conduct of Pre-Submission Seminar and also the regulation on preparation of M.Phil/Ph.D thesis. 5: 3: 1: (1-8)

5: 6- Establishment of New Deptts./Centres/Courses-

- (iii) Location of the P.G. Department in Mizo 5: 6: 3: (1-4)
- (iv) Taking over of Kiang Nongbah Govt. College, Aizawl. 5: 6: 4: (1-23)

5: 7 - Affiliation etc.

- (i) Inspection report for extension of Degree Course in Jaintia Eastern College, Khliehriat. 5: 7: 1: (1-10)

Contd/.../-

Contents

Page No.

5:8 - Others -

- (iv) Special Assistance Programmes—Autonomy thereof- 5:8:4:(1-7)
- (v) Identification of allied and cognate Subjects for constitution of the Board of Post-Graduate Studies. 5:8:5:(1)
- (vi) Increase in intake capacity of students in the Department of Sociology. 5:8:6:(1)

5: ACADEMIC MATTERS:

5:1 Statutes, Ordinances Regulations & Rules:

- (ii) Revised Ordinance - OB 6, management of Colleges maintained by the University:-

The Academic Council in its 51st meeting held on 2nd and 3rd November, 1995 vide Resolution No. AC:51:95:5:1(iii) had constituted a Committee consisting of the following members to frame an Ordinance on the Management of Colleges maintained by the University and also to review the existing regulations under Ordinance OB-6 on the affiliation of Colleges:

- | | |
|-------------------------|------------|
| 1. Prof. M.A. Sudhir | - Chairman |
| 2. Prof. N. Malla | - Member |
| 3. Dr. R.P. Sharma | - Member |
| 4. Shri J.M.S. Khongwir | - Member |

/new

The Committee after several sittings has revised the ordinances and framed Ordinances and in continuation of Item No. 5:1:1 the Ordinances on Management of Colleges maintained by the University and regulations on OB-6 are placed at Annexure "D" to "Q".

The matter is placed before the Council for consideration.

ANNEXURE-'D'

ORDINANCE ON COLLEGES AND INSTITUTIONS MAINTAINED BY THE UNIVERSITY
Under Section 26(o) of the NEHU ACT.

1. The Executive Council shall constitute, for a College or Institution maintained by the University, a Governing Body to manage the affairs of the College.
2. The Governing Body shall have the following powers and functions:
 - (a) to organise teaching in the College and to determine the teaching requirements of the College;
 - (b) to prescribe the rules for admission of the students (both resident and non-resident) and the fees to be paid by them;
 - (c) to submit to the Executive Council an estimate of the income and expenditure of the College and to incur expenditure within the limits fixed in the budget approved by the Executive Council;
 - (d) to consider the Annual Accounts along with the Audit Report and after approval, to submit the same to the Executive Council along with its comments;
 - (e) to appoint the administrative staff of the College;
 - (f) to appoint the Principal and the teaching staff on the recommendations of the Selection Committee appointed for the purpose, subject to the approval of the Executive Council;
 - (g) to grant leave to teachers and other staff according to the rules framed for the purpose;
 - (h) to define the duties and responsibilities of the Principal and administrative staff of the College.
3. The Governing Body will be constituted as follows:
 - (1) The Vice-Chancellor or his Nominee- Chairman
 - (2) Finance Officer of the University (Ex-Officio) - Member
 - (3) The Principal of the College (Ex-Officio) - Member-Secretary

Contd/.../-

- (4) Not less than five members to be nominated by the Executive Council.
- (5) Two members of the teaching staff by rotation according to seniority for a term of two years. One of the teachers' representatives shall be from among those with more than ten years' service; and one from among those with less than ten years' service-. If however, eligible teachers are not available each of those categories, both the representatives may be taken from the same category.

Provided that a teacher who has become a member of the Governing Body of the College under the category of teachers with less than 10 years service and completes ten years' of service during the term of membership as such, will nevertheless continue to be a member of the Governing Body for the full term of two years.

4. Members, other than ex-officio members, shall hold office for a term of two years.
5. The Selection Committee for selection of teachers shall be constituted as per procedure laid down in the statutes.
6. The appointment of the Librarian and the Director of Physical Education in the Colleges maintained by the University shall be made by the Governing Body of the College by advertisement as per Ordinances. The Selection Committee for recommending appointment of the Librarian and the Director of Physical Education will be constituted as follows:-
College Librarian :
 1. Chairman of the Governing Body or his nominee (Chairman)
 2. One University representative on the Governing Body
 3. University Librarian

Contd/.../-

4. Head of the Department of Library and Information Sciences
5. Principal of the College or his nominee
6. One expert nominated by the Governing Body out of a panel of names approved by the Academic Council/ Executive Council.

Three members inclusive of the Chairman and University Librarian or Head of the Department of Library and Information Sciences of the University or the expert, shall form a quorum.

Director of Physical Education:

1. Chairman of the Governing Body or his nominee (Chairman)
2. One University representative on the Governing Body
3. Director of Physical Education of the University
4. Principal of the College or his nominee
5. One expert nominated by the Governing Body out of a panel of names approved by the Executive Council.
6. Director of Physical Education in the College in case of selection of Assistant Director of Physical Education

Three members inclusive of the Chairman and an expert nominated by the Executive Council or the Director of Physical Education of the University shall form a quorum.

- 7.(1) There shall be a Staff Council in every College.
- (2) All the members of the teaching staff, the Librarian and the Director of Physical Education shall constitute the Staff Council.
- (3) Subject to the provisions of the Act, the Statutes and the Ordinances of the University, the Principal shall act as Principal in Council in respect of matters on which Staff Council is required to take decisions.

Contd/.../-

4. (a) The Principal shall be the ex-officio Chairman of the Staff Council.

(b) The Council shall elect its Secretary, who shall hold office for a term of one year. The Secretary may be re-elected for a second term of but no person shall hold office of Secretary for more than two consecutive terms.

5.A.(a) Subject to the provisions of the Act, the Statutes and the Ordinances of the University, the Staff Council shall take decisions in respect of the following matters:

- (i) Preparation of College time-table.
- (ii) Allocation of extra-curricular work of teachers not involving payment of remuneration.
- (iii) Organising extra-curricular activities, including cultural activities of students, sports, games, National Service Scheme and other social service schemes and academic societies.
- (iv) Laying down guide-lines for purchase of library books and laboratory equipment in consultation with the appropriate departments.
- (v) Admission of students.

(b) Subject to the provisions of the Act, the Statutes and the Ordinances of the University, the Staff Council shall make recommendations in respect of the following matters:

- (i) Introduction of new teaching posts in the departments and expansion of the existing departments;
- (ii) Policy regarding admission of students in conformity with regulation of the University;
- (iii) Guidelines regarding arrangements for the residence and welfare of students especially of Girl students in consultation with appropriate students' Organisations;

Contd/.../-

- (iv) Guidelines regarding discipline of students;
- (v) Formulation of policies for recommending names of teachers for participation in seminars and conferences and financial assistance to teachers for the purpose.

Note:- The administrative staff of the College shall not be within the purview of the Staff Council.

- B. (a) The Staff Council may function through its Committees.

Ordinarily no person shall be a member of more than two Committees at a time, and no person shall hold office as a member of a Committee for more than two consecutive terms.

- (b) The Principal shall have the right to be present and to speak at any meeting of any Committee.
- (c) Each Committee shall have a Convener appointed by the Staff Council, who shall convene the meetings of the Committee, and the minutes of the meetings shall be prepared and maintained by him.
- (d) The decisions of the Committee shall be reported to the subsequent meeting of the Staff Council for ratification.
- (e) The Principal shall implement all decisions of the Staff Council. If, in the opinion of the Principal, however, any emergency has arisen which requires that immediate action should be taken, the Principal shall take such action as he deems necessary and shall report the same to the next meeting of the Staff Council for confirmation.

- C. The rules relating to the conduct of meetings of the Staff Council shall be in accordance with the Regulations laid down in this behalf.

REGULATION-1

OB-6

Minimum Number of Classes per week/per paper

The time table of a College shall provide the minimum number of lecturers/tutorials/practicals in every paper carrying 100 marks as under:

Subject other than Science (General)

(i) 4 Lecture and one tutorial each period of the duration of 45 minutes.

Major

5 Lecture and one tutorial each period of the duration of 45 minutes:

Provided that a college shall make arrangements for Classes in each paper carrying 100 marks so as to ensure that each general paper is taught for at least 150 periods(including tutorials) while each Major paper is taught per at least 180 periods(including tutorials) in a year.

Three year degree Course in Science(General)

(i) 4 Lectures of 45 minutes each and one practical of 90 minutes:

Major

5 Lectures of 45 minutes each and two practicals of 90 minutes each.

Provided that a college shall make arrangement for classes in each paper carrying 100 marks so as to ensure that each general paper is taught per at least 180 periods(including practicals) while each major paper is taught per at least 270 periods (including practicals) in a year.

Contd/.../-

REGULATION-2

OB-6

Minimum staffing requirement

Subject to the provision as laid down in the Regulations concerning the duties of the teachers and minimum number of classes per week, the minimum staffing requirement of a College shall be as prescribed below

(i) No College shall be granted affiliation if it fails to satisfy such minimum requirement:

(ii) Three year degree Course Science(General)

At least four teachers of which one may be a demonstrator.

(iii) Three year degree course, Science: (Major).

At least five teachers of which one may be a demonstrator.

(iv) Three year degree course(per programmes) other than Science(General)

At least three teachers.

(v) Three year degree course,(per programmes) other than Science(Major)

At least four teachers.

N.B. However in a College where English, is taught only as a compulsory subject there shall be at least four teachers. But in a college where English is also taught as a Major subject there shall be at least five teachers.

(ii) Three year degree Course Science (General)
At least four teachers of which one may be a demonstrator.

(iii) Three year degree course (Major) **Contd/.../-**
At least five teachers of which one may be a demonstrator.

(iv) Three year degree course (per programmes) other than Science (General)
At least three teachers.

(v) Three year degree course (per programmes) other than Science (Major)
At least four teachers.

N.B. However in a College where English, is

REGULATION-3

OB-6

On Duties/Work-load of Teachers

1. The work-load of a teacher shall not ordinarily exceed twenty five hours of teaching (including tutorials) in a week.

Provided that the duration of class (including tutorial) shall not be less than 45 minutes.

Provided further that no teacher shall be permitted/required to teach in more than two shifts a day.

No teacher shall be allowed to work in more than one college in the same shift. No teacher of a College shall work in another college without the prior permission of the Governing Body of the College of which he is full time employee.

Notwithstanding anything mentioned above, a full time teacher of a college shall be required to be physically present at his college for a minimum period of 4 hours on a working day.

Contd./.../-

REGULATION-4
OB-6

Norms of Accommodation and Equipment

1. Each College shall provide suitable accommodation as follows:

- (i) One room for the Principal
- (ii) One room for the Vice-Principal, if any
- (iii) One room for the College office with necessary arrangement with the Cash counter.
- (iv) One common-room for the staff.
- (v) One common-room for boys and another for Girls.
- (vi) One room for the Library with sufficient space for reading.

In addition to the above, the College shall provide class rooms as specified below:

(i) There shall be separate class rooms for compulsory and elective subjects.

Provided that the class room shall be of a size that each student sitting therein is provided with a minimum floor area of 8 sq ft.

(ii) For Science subject there shall be separate lecture theatres and lab rooms with the provision that no student will have less than 25 sq ft. floor area for working in the laboratory.

(iii) Each college shall make necessary arrangement for museum, balance room, dark room, Computer room, preparation room etc. which shall be close to the respective labs./class room.

Contd/.../-

REGULATION-5

OB-6

Norms of Library Facilities

Three year Degree Course (General)

Each College shall have a library of at least 5000 books. In addition, it shall have 200 books for each of the elective subjects and six hundred for English, (including Elective English).

Further the College library shall have at least one copy of a text book for each group of five students and one copy of a general/reference book for each group of 10 students.

Three year Degree Course (Major)

(i) Each College shall have in addition to 5000 books, at least 500 books for each of the Major subject offered with the provision that each group of 3 students has at least one copy of a text book and each group of seven students has one copy of a general/reference book.

As a general policy, a College shall subscribe to two important journals for each elective subject and three important journals for each major subject offered.

Professional Courses

A College offering a professional course shall have at least six hundred books in each major area with the provision that each group of three students has at least one copy of a text book and each group of seven students has one copy of a general/reference books.

Provided further that each such college shall subscribe to two important journals in each major area.

Contd/.../-

Norms of number of students to be admitted to various Classes.

Three year Degree Course (General)

(i) The number of students to be admitted to a degree programme in Science shall not ordinarily exceed 40 in each section while the number of students to be admitted to a degree programme in subjects other than Science shall not exceed 50 in each section.

(ii) Provided that the number of students for a practical class shall not exceed 20 under any circumstances.

In case, the number of students exceeds the prescribed limit the class shall be split into two or more sections so as to bring them within the prescribed norm.

Three year Degree Course (Major)

(i) The number of students to be admitted to a degree programme in subjects other than science shall not ordinarily exceed 35 while the number of students to be admitted to a degree programme in Science shall not ordinarily exceed 25. In case, the number exceeds the prescribed limits the class shall be split into two or more sections so as to bring them within the prescribed norms.

The number of students for a practical class however shall not exceed 15 under any circumstance.

NORTH-EASTERN HILL UNIVERSITYA P P L I C A T I O N _ F O R :

- (1) Establishment of a new college.
- (2) Opening a new courses in an existing College.
- (3) Upgrading general Course College into a Major Course College.
- (4) Provisional Affiliation.
- (5) Permanent Affiliation.

(Mark which-ever is applicable)

To, . . .

The Registrar,
North-Eastern Hill University,
Mawynroh-Umshing,
Shillong :- 793022

Subject :- Application for _____

Sir/Madam,

With reference to the subject quoted above, I submit the information and details as indicated below.

1. Name and Address of the Sponsoring Authority (if a new College) Governing Body (if an established college)
2. Name and Address of the College :

Contd.....p...2/-

- 2 -

3. Course for which permission is sought :
(please specify subjects and standard into which permission is sought).
4. Permission fee/Affiliation fee of Rs. _____ is
Enclosed) The payment has to be made through a Cheque/
Bank Draft payable to North-Eastern Hill University,
Shillong.
5. Whether relevant Proforma is enclosed ?

Date :

Place:

Signature of Applicant.

-
- Note :
1. The application, complete in all respects, should reach the Registrar, North-Eastern Hill University, before 15th August of the preceding year in which the College is intended to start.
 2. Project Report to be submitted are as follows :
 - i) Establishment of a new College : Proforma I
 - ii) Opening a new Courses in an existing College Proforma - II
 - iii) Introduction of Major Course. Proforma IV
 - iv) Provisional Affiliation: Proforma V
 - v) Permanent Affiliation: Proforma VI

PROFORMA ITO BE SUBMITTED BY SPONSORING AUTHORITY
WHICH INTENDS TO ESTABLISH A NEW COLLEGE

- A. 1. Name of the college _____

2. Affiliation for _____

3. The academic session from which admission starts _____

B. GENERAL INFORMATION.

- 1) Sponsoring authority (i) Governing Body (ii) State Government.
- a) Name
- b) Address
- c) Legal status (Please enclose its constitution)
- 2) Number of Schools and students passing in Higher Secondary examination (2) ^{with} / in a radius of 25 kilometres from the proposed college (enclosed list of Schools/Institution)

NAME OF THE SCHOOL INSTITUTION	NUMBER OF STUDENTS PASSING OUT	DISTANCE FROM THE PROPOSED COLLEGE

Contd....p...4/-

3. Details of enrolment in a college within a radius of 25 kilometres from the proposed college (enclose list of colleges)

<u>Name of the College.</u>	<u>Number enrolled</u>	<u>Distance from the Proposed college.</u>
-----------------------------	------------------------	--

4. Will it be a day or evening/morning college _____

C. EXISTING RESOURCES.

- 1) Actual land available (in hectares):
2) Extent of existing building.

<u>Rooms</u>	<u>Number</u>	<u>Size.</u>
Classrooms		
Laboratory		
Principal's room		
Office room		
Students room		
Teachers' room		
Library		
Lavatory		
Other rooms (please specify)		

- 3) Size of the playground (in metres):

- 4) Details of furnitures, equipment etc.

<u>Furniture.</u>	<u>Number</u>	<u>Size</u>
Classrooms chairs		
Classroom tables		
Other chairs		
Other tables		
Almirahs		
Other items.		

- 5) Details of student hostel.

6) Whether all the above resources are owned or acquired. If acquired, a no objection certificate from the owner for use of the building/land/furniture etc. is to be furnished alongwith this form.

D. FINANCIAL POSITION

1. Details on the Reserve Fund in long term Deposit in the name of the college. A certificate from the bank to this office is to be attached.

<u>Name of the Bank</u>	<u>Amount.</u>
-------------------------	----------------

2. SOURCES OF INCOME (ANNUAL) Amount.

- a. Grants from Government.
- b. Fees
- c. Donation.
- d. Others (Please name the sources)
- e. Total annual income.

Contd....p..6/-

3. Is the above amount sufficient to run the college? If not, how do you plan to raise the remaining amount.

4. What are the proposed head of expenditure.

3. Head of expenditure.

Amount.

a) Staff salary

b) Library books

c) Furnitures.

d) Other items (please name them)

N:

5. Has permission to start the College been obtained from the state Government concern. If so, copy of the permission to be attached.

E. ACADEMIC DETAILS.

4

1. Have you started making appointments to the teaching posts? If, yes, please furnish a statement indicating names of the Principal and teachers, their academic qualifications, division and percentage of marks at each stage beginning with High School, NET, Research Degree, teaching and research experience, area of specialisation and publication if any.

-

C

1

2. Whether a full time qualified Principal is available, YES/NO.

3. What is the expected enrolment for the first academic year:-

4. Admission Policy - whether it maintains high standard and non-discrimatory principles.

F. LIBRARY- Number of books available and proposed to be purchased.

1. Subjects. Existing Additional Proposed

English.

H.I.L.

Contd. p...7/-

2. Do you proposed to appoint a librarian YES/NO

3. CO-CURRICULAR ACTIVITIES

Please give details of co-curricular activities as students service, sports, NSS, Debating etc.

4. DETAILS OF ADMINISTRATIVE POSTS.

<u>Designation</u>	<u>Name of Posts</u>	<u>Remarks.</u>
--------------------	----------------------	-----------------

1. RESOURCE - FUTURE PLAN

Please enclose your proposals, if any, for future development programmes reflecting prospects of the college for the next ten years of Physical, financial resources, academic programmes library facilities, co-curricular activities.

DATE:

Signature of the Sponsoring authority.

PLACE :

NOTE: (1) Documentary evidence is to be supplied wherever necessary.
(2) The University has laid down certain essential conditions to be fulfilled by the colleges for establishment of new college. The college authority should make sure to follow such conditions in submitting the Project Report.

(3) The Report and all relevant documents should be submitted in ten copies.

PROFORMA - II

ANNEXURE-'M'

(New Course/Subject)

To be submitted by the College Authority for Permission to Start a New Course/Subject in an Existing College

A. GENERAL INFORMATION

1. Name & Adress of the College-! _____
.....

2. Give the names of courses/subjects existing in the College and additional courses intended to start.

Existing	Course(s) /Subject(s)	Subjects proposed to start of Degree Level
.....		
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

3. Please specify the academic session from which the first batch of students are to be admitted for the course(s) / subject(s) proposed.
.....

4. Please specify the month/year on which the first batch of students are expected to take the exam, in the subject(s) / course(s) proposed:
.....

5. Briefly state the need for starting the new course(s) / subject(s).
.....

6. Have you fulfilled all the conditions prescribed by the University for starting the new course(s) /subject(s):
.....

7. Does the college have a Governing Body as per University Rules?

If yes, give a list of the members: (Annexure)

B. PHYSICAL FACILITIES:

1. Details of Rooms available (for existing Courses)

Rooms	Number	Size
.....

- a)
- b)
- c)
- d)
- e)
- f)

2. Source for additional Funds for the new Course(s)/subject(s). Give the source and amount. In case of sanctioned Funds, please enclose a copy of the sanction order:

.....

.....

.....

C. ACADEMIC DETAILS:

1. Details of students enrolment for the last 3 years subject wise (use separate sheet if additional space is required).

.....

2. What is the expected enrolment on the new course/subject

.....

3. Details of Rooms made available for the new course/subject:

ROOMS	NUMBER	SIZE
.....

- a) Class rooms
- b) Others

ii) New course/subject:

a)

b)

G. GENERAL INFORMATION:

1) When did the last Inspection team visited the college and for what purpose.

.....
.....

2) Kindly furnish a list of the conditions laid down by the above Inspection Team for fulfilment:

.....

3) Which of the conditions have been fulfilled and when ?

.....

Date

Place

Signature of the Applicant.

NOTE: 1) Documentary evidence has to be supplied wherever required.

2) The University has laid down certain essential conditions to be fulfilled by the colleges for introducing new course/subjects. The college authority should make sure to follow such conditions in submitting the project report.

3) The report and all relevant documents has to be submitted in TEN Copies.

ENROLMENT AND UNIVERSITY RESULTS(SUBJECT WISE)
FOR THE LAST 3 YEARS

SUBJECTS	YEAR	ENROLMENT		UNIVERSITY		RESULTS
		DEGREE COURSE	GENERAL MAJOR COURSES	DEGREE COURSES	GENERAL MAJOR COURSES	MAJOR COURSES

LIST OF COLLEGE FURNITURE

SL NO	NAME OF FURNITURE	NUMBER
-------	-------------------	--------

PROFORMA -III

(INTRODUCTION OF MAJOR COURSES)

Report to be submitted by College authority for introduction of Major Courses

A. GENERAL INFORMATION

1. Name of the college :
2. From which academic session was the college granted affiliation to Degree level ? (Kindly give letter No. & Date) .
3. Please give in details the need and justification for upgrading the college with major courses.
4. What are the subjects offered at Degree General level and subjects to be started at Major level

SUBJECTS

General Course
offered

Major Courses
to be introduced

Have you implemented all the conditions laid down by the University for starting Major Courses-

6. Please furnish a list of the members of your College Governing Body.

B. PHYSICAL FACILITIES

1. Details of rooms.

	<u>ROOMS AVAILABLE</u>	<u>NUMBER</u>	<u>SIZE</u>
a)	Class rooms		
b)	Principal's room		
c)	Office room		
d)	Teacher 's Common room		
e)	Students' Common room		
f)	Laboratories		
g)	Library		
h)	Reading room		
i)	Toilet facilities		
j)	Other room		

C. FINANCIAL POSITION

1. Detail on fixed deposit in favour of the college. A Certificate from the Bank must be enclosed.

<u>NAME OF THE BANK</u>	<u>AMOUNT</u>
-------------------------	---------------

2. Kindly furnish the income and expenditure during the last three years.

<u>YEARS</u>	<u>INCOME</u>	<u>EXPENDITURE</u>
--------------	---------------	--------------------

3. How does the college intend to raise additional funds for starting Major courses- Indicate the sources

SOURCES

AMOUNT

- a.
- b.
- c.

C. ACADEMIC DETAILS:

1. Details of subject-wise student enrolment during the last three years.

SUBJECT

YEAR

ENROLMENT AT DEGREE LEVEL

1st year 2nd year 3rd level

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

2. What is the expected enrolment in Major courses?

3. Details of subject wise result percentage during the last 3 years.

Subject

Year

Percentage at Degree level

1st year 2nd year 3rd year

4. Please furnish details of academic qualifications of the Principal and teachers in the order of seventy giving their names, division and percentage of marks at each stage beginning with high school, teaching and research experience, classes taught, area of specialisation.

Publications, NET qualified and research degrees.

5. Are there any additional sanctioned post for which teacher have not yet been appointed. If yes, please furnish sanction order from the appropriate authority and give details below:

Subjects

No of sanctioned posts

E. LIBRARY

1. the College has got a seperate Library ?
2. Do you have a seperate reading room ?
3. Kindly give the name and qualification of your librarian.

NAME

QUALIFICATION

4. Number of books/Journals available and additional/books/Journals to be purchased.
- | <u>Subject</u> | <u>Number available</u> | | <u>Additional reg.</u> | |
|----------------|-------------------------|----------------|------------------------|-----------------|
| | <u>Books</u> | <u>Journal</u> | <u>Books</u> | <u>Journals</u> |

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

F. DETAILS ON THE LAST INSPECTION TEAM

1. When did the last University Inspection team visit the College and for what purpose ?
2. What were the conditions laid down for fulfilment ? Please list them.
3. Which of the conditions have been fulfilled and when ?

Date :

Place:

Signature of the applicant

.....
NOTE -

- (1) Documentary evidence is to be supplied wherever necessary.
- (2) The University has laid down certain essential conditions for starting Major course(s). The College Authority should make sure to fulfil such conditions while submitting the Project Report.
- (3) The Project report along with all relevant documents is to be submitted in ten copies.

NORTH-EASTERN HILL UNIVERSITY

.S.H.I.L.L.O N.G.. ANNEXURE-'O'

PROFORMA-IV

Project Report to be submitted by the Sponsoring Authority/
College authority to seek Provisional affiliation.

.....

1. Name of the College:
2. Date and reference of the first permission, granted to establish a College:
3. Date from which the College started its regular classes:
4. Please furnish actual position of the Academic details as on the last date of admission:
 - a) Number of teaching staff appointed:
 - b) Courses/subjects started:
 - c) Number of students enrolled:
 - d) Name of the Principal with qualification and experience:
 - e) Number of volumes procured for the Library: (Books and Journals to be indicated separately),
5. Progress report on the recommendations of the University at the time of granting first permission to start the College:
6. Any other relevant information:

Date:

Place:

Signature of the Applicant.

NB: The applications is to be submitted in ten copies.

NORTH-EASTERN HILL UNIVERSITY

S H I L L O N G

ANNEXURE-'P'

PROFORMA - V

(PERMANENT AFFILIATION)

PROJECT REPORT TO BE SUBMITTED BY THE COLLEGE AUTHORITY FOR
GRANT OF PERMANENT AFFILIATION

A. GENERAL INFORMATION:

1. Name and Address of the College:
2. Name of the Principal, his educational qualifications and experience and period served in the College:
3. Name of the Sponsoring Authority:
4. Please give the following information about the College:
 - a) Date of establishment:
 - b) Date of getting Provisional affiliation and order No:
 - c) Date of introduction of general/major courses since the time of establishment of the College:

Subjects

Date of introduction

B. ACADEMIC DETAILS:

1. Students enrolment during the last 5 years:

<u>Year</u>	<u>No. of students enrolled</u>					
	<u>General</u>			<u>Major Course</u>		
	<u>1st.yr.</u>	<u>2nd.yr.</u>	<u>3rd.yr.</u>	<u>1st.yr.</u>	<u>2nd.yr.</u>	<u>3rd.yr.</u>

2. University Examination results for the last 5 years:

<u>Year</u>	<u>Division</u>	<u>Percentage of pass at Degree Examinations</u>					
		<u>General</u>			<u>Major</u>		
		<u>1st.yr.</u>	<u>2nd.yr.</u>	<u>3rd.yr.</u>	<u>1st.yr.</u>	<u>2nd.yr.</u>	<u>3rd.yr.</u>

3. ACADEMIC DISTINCTION ACHIEVED:

Year

Number of distinctions.

4. Please furnish details, if any, on:

(a) Strike in the college during the last 5 years:

(b) Disciplinary cases(Examination etc.) during the last 5 years.

5. Has the college implemented all the recommendations of the University on affiliation matters?

C. PHYSICAL FACILITIES:

1. Extent of land available:

2. Details of Hostels, if any:

3. Details of rooms:

Rooms

Number

Size

4. Please furnish a detailed statement of your laboratories/ equipment. (Kindly enclose subject wise list.)

C. FINANCIAL POSITION.

1. Do you have a fixed deposit in favour of the College ?
If yes, please furnish the following information:

<u>Name of the Bank</u>	<u>Amount</u>
-------------------------	---------------

(Certificate from the Bank to this effect is to be attached.)

2. Income and expenditure during the last 5 years:

<u>Year</u>	<u>Income</u>	<u>Expenditure</u>
-------------	---------------	--------------------

3. What are your sources of income and heads of expenditure ?

<u>Source of income</u>	<u>Heads of the expenditure</u>
-------------------------	---------------------------------

D. LIBRARY

1. Whether there is a separate library.
2. Please furnish the name and qualification of your college librarian.

Name	Qualification
------	---------------

3. Do you have separate reading room(s)
4. Details of books and journals available(subject wise)

Subjects	No. of books	No. of journals
----------	--------------	-----------------

E. DETAILS OF STAFF

1. Please furnish a statement showing the name of the Principal and teachers, their educational qualifications with division and percentage of marks beginning with high school stage, teaching experience and subjects taught specialization, publications, Net and Research Degree etc.

2. Designation	No. of posts
----------------	--------------

3. Are there any sanctioned posts(Both teaching and non-teaching) for which persons are yet to be appointed? If yes, please furnish the sanction order from the appropriate authority:

Subjects	No. of sanctioned post
----------	------------------------

F. SELF EVALUATION

Please give evaluation on the following items :

- (a) Present academic standard:
- (b) Resources--Physical and financial

- (c) Achievement towards aims and :
objectives :
- (d) Points of strength and weakness:
- (e) Problems and their solution :
- (f) Future Priorities.
- (g) Co-Curricular activities
- (h) Any other

Date:

Place :

Signature of the applicant

.....
Note: (1) Documentary evidence is to be supplied whether
required:

- (2) The University has laid down certain essential conditions to be fulfilled by the College authority for grant of permanent affiliation. The college authority should make sure to follow such conditions in submitting the project Report.
- (3) The Report along with all relevant documents is to be submitted in ten copies.

NORTH EASTERN HILL UNIVERSITY
SHILLONG

INITIAL AFFILIATION

Inspection Team Report(to be submitted to the
University in duplicate)

1. Name of the College.....
2. Its sponsoring authority.....
3. The Legal Status of the College(whether college is a
registered body under Societies Registration Act) .
.....
4. Whether the College is having a Governing Body duly
constituted for the purpose.
.....
(attached a copy of the constitution)
5. Any special features of the Governing Body Constitution
which deserve special attention for the grant of
affiliation.
.....

Physical and Financial Resources

6. Whether the college is already located at its own site:
Yes/No:
(a) If not, whether the college has already acquired land.
.....
(b) Give below a bried report on the suitability of the
site and plan after inspection.
.....

7. The college is seeking affiliation for offering courses in:

Degree

General Courses

Major Courses

B. Students seeking Admission:

	General	Major
B.A
B.Sc
B.Com

9. Whether the college has adequate number of titles of books and journals for the courses of study mentioned at para 7 above.

.....
.....

(a) If not, do you recommend that the college should be affiliated pending acquisition of books/journals:

.....
.....

10. Facilities for classroom, Reading room etc.give details

(a) Reading room	No.
Size.....		Adequate/Inadequate.

(b) Classrooms	No.	Adequate/Inadequate.
----------------	-----	----------------------

(c) Students' Common Room	No. (for boys/Girls)	
Size.....		Adequate/Inadequate.

(d) Teachers' Common Room		
Size.....		Adequate/Inadequate

11. Whether the college has adequate equipment/laboratory facilities for practical classes;

.....
.....

12. Details of teachers

Name	Lecturer in	Speciali- zation	Division Grade	% of marks	Research Degree	Pub.
1.	1.		1.			
2.	2.		2.			
3.	3.		3.			
4.	4.		4.			
5.	5.		5.			
6.	6.		6.			
7.	7.		7.			
8.	8.		8.			
9.	9.		9.			
10.	10.		10.			
11.	11.		11.			
12.	12.		12.			
13.	13.		13.			
14.	14.		14.			
15.	15.		15.			
16.	16.		16.			

13. Whether the college has adequate No. of qualified as teachers per the University regulation in the subjects for which affiliation is sought.

.....

14. Whether the college is maintaining a fixed term deposit in any bank.

Yes/No

If Yes, the Fixed Deposit Certificate

No..... dated.....

For Rs.....

in the.....

(mention the name of the Bank and Branch)

15. Any other observation(s):

16. Recommendations:

NOTES: A) If conditional recommendation is made kindly specify the conditions and the period by which the same are expected to be fulfilled by the college for the Provisional/Extension of Affiliation.

B) If provisional affiliation is recommended upto a certain period only, this may be mentioned.

Signature of the members of the
Inspection Team.

NORTH-EASTERN HILL UNIVERSITY
S H I L L O N G

ANNEXURE-101

NEW COURSE/UPGRADATIONINSPECTION REPORT

1. Name of the College:
2. Year of affiliation and corresponding University
Notification No:
3. (a) Permission sought to introduce general course in:

(b) Permission sought to introduce major course in:
4. Admission(for the last three years)

<u>Year</u>	<u>B.A.</u>			<u>B.Sc.</u>			<u>B.Com.</u>		
	1st.	2nd.	3rd.	1st.	2nd.	3rd.	1st.	2nd.	3rd.
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5. Result of University examination during the last three years:

<u>Examination</u>	<u>Year</u>	<u>percentage of Pass</u>
--------------------	-------------	---------------------------

6. In case the college is seeking permission for Major in a subject(s) for which it has already a General course(s), please give below the No. of students admitted in the last three years and their results for these years in the SUBJECT in which college has applied for Honours.

Subject	Year	No. of students appeared	% success
---------	------	--------------------------	-----------

7. FUND

- (a) Whether the college is having a Reserve Fund in long term Fixed Deposit:

If yes, the details thereof:
(Bank, No of Term Deposit Receipt, etc.)

- (b) Present working Fund:

8. Qualification/Specialisation of the Teaching Staff:

Sl.No.	Name and Designation	Post-graduate qualification		NET/ Research degree, if any.	Publication	R E M A R K S
		Div./ grade	% of marks			

1.

2.

3.

4.

5.

6.

7.

8.

9.

NB: attach extra sheets if necessary.

9. LAND AND SITE

a. Whether the college is having permanent building on its own land:

b. Area of the College Campus:

c. Accommodation(give size):

1. One room for the Principal

2. One room for the Vice-Principal

3. One room for the college office

4. For staff common room Adequate/Inadequate

5. Common room for Boys and Girls

6. Library with reading room

7. Class room(s)

10. Workload of Teachers:

11. Library Books:

(a) Total Volumes

Subjectwise break-up

(b) Whether the College has a trained Librarian

12. Laboratory facilities

a) Whether accommodation is adequate or not:

b) No. of shifts the students do their practicals:

13. When was the last Governing Body meeting:

14. Any other relevant information(s) /point(s)

RECOMMENDATIONS

Please make your recommendation without any ambiguity. In case you suggest provisional affiliation for a particular period, please mention the academic year specifically. Please also mention the conditions, if any, to be fulfilled if extension of affiliation is to be considered.

Signature of the members of the
Inspection Team

5:2 - Syllabus etc.

- (iv) Revised Syllabus for M.A. Education, English, Khasi and Philosophy.

The Dean, School of Humanities and Education, NEHU Shillong has submitted the revised Syllabus for M.A in Education, English, Khasi and Philosophy duly approved by the School Board in its meeting held on 30.4.96.

The Syllabus are placed at Annexure-'A', 'B', 'C', 'D' respectively.

The matter is placed before the Council for consideration.

M.A. EDUCATION

ANNEXURE - 'A'

(REVISED COURSE STRUCTURE)

M.A. Education shall be two year Programme with four semester.

There shall be 16 courses;

12 - Core course including laboratory Practicals and

4 - Electives (two from Category A and 2 from Category B)

Semester - I.

EC : 1 : Advanced Philosophy of Education

EC : 2 : Advanced Psychology of Education

EC : 3 : Research Methodology and Statistics in Education

EC : 4 : Curriculum Development and Instruction.

Semester - II.

EC : 5 : Educational Management and Change

EC : 6 : Advanced Sociology of Education

EC : 7 : Educational Testing and Evaluation

EC : 8 : Environmental Education.

Semester - III.

EC : 9 : Educational Technology

EC : 10: Educational Systems in a comparative Perspective

EC : 11: Elective I (Category A)

EC : 12: Elective II (Category B)

Semester -IV.

EC : 13 : Laboratory Practicals

EC : 14 : Higher Education in India

EC : 15 : Elective III (Category A)

EC : 16 : Elective IV (Category B)

Student have to select :

2 Elective Course from Elective Category 'A'

Elective Category 'A'

OP A.

1. Economics of Education
2. Computer Education
3. Early Childhood Education
4. Educational Guidance and Counselling
5. Futurology in Education
6. Education and Rural Development
7. Non formal and Adult Education.

2. Elective Courses from Elective Category 'B'
any on of the group each consisting of two courses.

Elective Category 'B'

OP B.

- | | |
|---------------------------|---|
| Special Education | 1. Education of Creative and Gifted |
| | 2. Education of Disabled and Backward |
| Educational Thought | 1. Indian Educational Thought |
| | 2. Western Educational Thought |
| Values and Yoga Education | 1. Value Education |
| | 2. Yoga Education |
| Teacher Education | 1. Teacher Education |
| | 2. Methods of teaching at Tertiary level. |

EC : 1. Advanced Philosophy of Education

1. Philosophy of Education

- Meaning, Nature and Schpe
- Functions of Philosophy of Education (SPeculative, Normative and Critical)
- Need for Philosophy of Education

2. Philosophical Bases of Educational Aims.

- Aims of Education in relation to Philosophy of life
- Aims of Education and the process of Education

3. Value in Education

- Nature and Criteria of value
- Types of values
- Hierarchies of Values
- Moral Values and Education.

4. Knowledge Culture and Curriculum

- Meaning and Nature of Knowledge
- Theories of knowledge
- Forms of knowledge
- Philosophical Bases of curriculum (Logical, Ethical, Aesthetic)
- Culture and Curriculum
- Common Culture Curriculum.

5. Freedom and Authority in Education

- Concept of Freedom and Authority
- Role of Freedom and Authority in Education

6. Philosophical Approaches in Education

(a) Indian Philosophy of Education

- Upanishads
- Samkhya
- Yoga
- Vedant
- Jaisism
- Buddhism

(b) Essentialism, Progressism, Existentialism, Humanism.

Suggested Readings.

Arustine . D. Philosophy of Education : Learning and Schooling
New York. Harper & Row, 1967.

- Bhatt S.R., Knowledge Value and Education: An Axionetic Analysis, Delhi : Gian Publishing House, 1986.
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- International Bureau of Education, Educational Goals, Parts, UNESCO, 1980.
- Kneller, G.F. Introduction to the Philosophy of Education, New York. John Witty & Sons, 1971.
- Lawton, D. Class, Culture and Curriculum, London Rontledge & Regan Paul, 1975.
- Mukherjee, R.K. Ancient Indian Education, Motilal Banarasidas, 1974.
- Ms. Ciellan. J.E., Philosophy of Education. New Jersey. Prentice Hall Inc, 1976.
- Morris, V. Existentialism in Education, New York . Harper & Row . 1966.
- Marareth .M.P, Education Goals, Aims and Objectives, New Delhi Vikas, 1984.
- McGinnon, D.S, An Introduction to the Philosophy of Education, London, Routledge Kegan Paul, 1957.
- Pandey .R.S. An Introduction to Major Philosophies of Education Vined Pustak Mandir, Agra, 1982.
- Peter, R.S., Authority, Responsibility & Education, London. George Allen & Unwin, 1963.
- Peter. R.S, Philosophy of Education.
- Radhakrishnan, S & Moore, Source Book of Indian Philosophy, Allen an Unwin
- Reid. D.A. Philosophy and Education, London. Heineman, 1982.
- Rayna, R. Introduction to Indian Philosophy ,New Delhi: Tata Mc Graw Hill, 1971.
- Sotharamu, A.C, Philosophies of Education, New Delhi. Ashish, 1978.
- Stemmer, N. Roots of Knowledge Oxford, Basil Blackwell, 1983.
- White, J. Aims of Education, London: Routledge & Kegan Paul, 1982
- Wingo, M. Philosophies of Education. An Introduction, New Delhi, Sterling Publishers Pvt. Ltd, 1975.

Elective OP. A. I: Environmental Education.

1. Introduction to Environmental Education:

- Concept, Importance and Scope of Environmental Education:
- Aims and Objectives of Environmental Education
- Guiding Principles and Foundations of Environmental Education
- Special significance of Environmental Education for sustainable development of North East India.

2. Environmental Hazards:

- Environmental Pollution: Physical air Water, noise chemical
- Extinction of flora and fauna, deforestation, soil erosion
- Need for conservation, preservation and protection of rich environmental Heritage.

3. Curriculum for environmental education

- Special nature of curriculum on environmental education
- Concept of environment and eco-system
- Natural system earth and biosphere, abiotic and biotic components.
- Natural resources abiotic resources (Forests, Wildlife, Fisheries, bioiversity, degradation of resources.
- Human System human being as part of environment, human adaptations to environment, population and its effect on environmental system.

4. Methods and Approaches of Environmental Education

- Strategies and Approaches for environmental education separate subject, topical units, Integration and Inter-disciplinary approaches.
- Methods discussion, seminar, workshop, dialogues, problem solving, field surveys projects, exhibition
- Role of Media Print, films, T.V.

5. Evaluation in Environmental Education

- Objectives of evaluation in environmental education. estimating awareness, understanding, and application of knowledge for protection of environment, attitudinal and value change
- Tools and Techniques -Achievement and performance test, attitude and value scales, their use and limitations.
- Importance of practical and reports.

contd.....

6. Teacher Preparation and Research Needs for Environmental Education.
- Role of teachers and community in environmental Education.
 - Need for effective environmental education, teacher preparation strategies for various levels of education teachers for formal and non formal streams.
 - Teacher qualification, specialisation and skills
 - Importance of inservice and orientation courses for teachers.
 - Nature of research in environmental education. interdisciplinary studies, environmental survey, cost, benefit analysis studies, managerial research, research for developing tools and techniques.
 - Status of Research in environmental education in India- Trends and Issues.

Suggested Readings.

1. Bakshi. T.S. and Navch Zev (ed) : Environmental Education Principles, Methods and Applications, New York 1980.
2. Huncle J (ed) : Geographical Education, Reflection and Action, New York, Oxford University Press, 1983.
3. Sharma R.C.: Environmental Education : New Delhi, . -1986.
4. Trivedi R.N. (ed) : Environmental Pollution and its impact on the organism, Patna, Bharati Bhavan, 1986.
5. Proceeding of North East India Educations Society, Third Annual Conference December, 1993.

DEPARTMENT OF ENGLISH

NEHU : SHILLONG

SEMESTER I

1. Poetry I
2. Fiction I
3. Drama I
4. Literary Theory & Criticism I

SEMESTER II

5. Poetry II
6. Fiction II
7. Drama II
8. Literary Theory & Criticism II

SEMESTER III

9. Poetry III
10. Fiction III
11. Drama III
12. Optionals I: Language I/American Lit. I/Commonwealth Lit.

Semester IV

13. Shakespeare
14. Indian Writing in English
15. Literary Theory & Criticism III
16. Optionals II: Language II/American Lit II/World Literature in translation.

FIRST SEMESTER

1. Chancer : The Prologue to the Centerbury Tales
2. Spencer : Faerie Queene Book I
3. Milton : Paradise Lost Book I, II and IX
4. Donne : "The Good - Morrow "
- Ex "The Sunne - Rising "
- "The Canonization"
- "Batter My Heart Three-Personed God"
- " The Estasie"
5. Marvell : "To His Coy Mistress"
- "A Dialogue between the Soul and Body".
6. Pope : "An Essay on Man".

All the texts are for detailed study

Course II (Fiction I)

1. Defoe : Moll Flanders
2. Fielding : Tom Jones
3. Jane Austen : Persuasion
4. Dickens : Dombey and Son
5. George Eliot : Middlemarch
6. Hardy : Tess of the D' Urbervilles

Course III (Drama I)

1. Anonymous : Everyman
2. Kyd : The Spanish Tragedy
3. Marlowe : Doctor Faustus
4. Jonson : Volpone
5. Webster : The Duchess of Malfi
6. Middleton : Women Beware Women

Texts are for detailed study.

Course IV (Literary Theory and Criticism I)

1. Plato : Republic Book X
2. Aristotle : Poetics
3. Longinus : On the Sublime
4. Horace : Ars Poetica
5. Philip Sidney : An Apologie For Poetrie
6. John Dryden : "French vs/English Plays" From
An Essay of Dramatic Poesie
7. Samuel Johnson : 'The Life of Cowley' From the Lives of the Poets

Second Semester
Course V (Poetry II)

1. Blake : Songs of Innocence and Songs of Experience
2. Wordsworth : "The Prelude" Book I
: "Tintern Abbey"
: "Ode on Intimations of Immortality".
3. Keats : "Ode to a Nightingale"
: "Ode on a Grecian Urn"
: 'Ode to Autumn '
: 'When I have fears that I may cease to Be'.
4. Browning : 'Porphyria's Lover'
: 'Prospice'
: 'The Bishop Orders His Tomb'
5. Tennyson : 'The Lotus - Eaters'
: 'Ulysses'
: 'Tithonus'
: 'Tears, Idle Tears'
6. Arnold : 'Memorial Verses'
: 'To Marguerite (Yes: In the Sea of Life Enished)'
: 'The Buried Life'
: 'Dover Beach'

Texts are for detailed study

Course VI (Fiction II)

1. Conrad : Lord Jim
2. Lawrence : Sons and Lovers
3. Virginia Woolf : To the Lighthouse
4. Forster : A Passage to India
5. Joyce : A Portrait of the Artist as a Young Man

COURSE VII (DRAMA II)

1. Dryden : All for Love
2. Congreue : The Way of the World
3. Sheridan : The School for Scandal⁴
4. Galsworthy : Justice
5. Shaw : Arms and the Man

Yexts are for detailed study

COURSE VIII (LITERARY THEORY & CRITICISM II)

1. William Wordsworth : Preface to the Second Edition of
Lyrical Ballads
2. S.T.Coleridge : Biographia Literaria, Chapters XIII & XIV
3. John Keats : Letters to:
Benjamin Bailey 22 November 1817.
George & Thomas Keats 28 December 1817
John Hamilton Reynolds 19 February 1818
~~John~~ Taylor 27 February 1818.
John Hamilton Reynolds 3 May 1818
4. Mathew Arnold : 'The Study of Poetry'
5. Walter Dater : 'Style'
6. A.C.Bradley : 'Poetry for Poetry's sake'
7. Ezra Pound : 'A Retrospect'
8. T.E.Hulme : 'Romanticism and Classicism'
9. Henry James : 'The Art of Fiction'.

THIRD SEMESTER
Course IX (Poetry III)

1. Hopkins : 'The WindLover'
'Fied Beauty'
'God's Grandeur'
'As KingFishers Catch Fire'
2. Yeats : 'Sailing to Byzantium'
'The Second Coming'
'Easter, 1916'
'Prayer for my Daughter'
'Adam's Curse'
3. Eliot : 'Preludes'
'Gerontion'
'The Waste Land'
'Journey of Magi'
4. Auden : 'In Memory of W.B. Keats'
'The Unknown Citizen'
'The Sgiield of Achilles'
'September 1, 1939'
'In Memory os Sigmund Freud'
5. Dylan Thomas : 'Fern Hill'
'The Force that through the Green Fuse. . .'
'Do Not Go Gentle into that Good Night'
'And Death shall have no Dominion'
6. Phillip Larkin : 'Church going'
'The Wgitsun Weddings'
'Toads'

Texts are for detailed study.

COURSE X (FICTION III)

1. George Orwell : 1984
2. Kingsley Amis : Lucky Jim
3. Graham Greene : Heart of the Matter
4. William Golding : Lord of the Flies
5. Alan Sillitoe : The Loneliness of the Long Distance Runner
6. John Fowles : The French Lieutenant's Women

COURSE IX (DRAMA III)

1. Eliot : The Family Reunion
2. Beckett : Waiting for Godot
3. Osborue : Look Back in Anger
4. Pinter : The Birthday Party
5. Wesker : Roots

Texts are for detailed Study.

COURSE XII (Option A)

Language I

1. Language and Linguistics

(a) Language

(i) The Key properties of language

(ii) Language and Animal Communication

(iii) Language and Languages

(iv) Language, Dialect, Register, Idiolect, etc

(b) Introduction to Linguistics

(i) Traditional Linguistics and its view of language

(ii) Historical Linguistics and Comparative Philology -

priorities -view of language - assumptions and limitations.

- (iii) 1. Modern Linguistics : The search for a coherent object of Study
2. The Saussurean Dichotomies :
- la langue vs la parole - linguistics as a study of la langue
- Synchrony vs Diachreny - linguistics as a synchronic/ descriptive study.
- Linguistic sign and the Syntagmatics and Paradigmatic relations of linguistic signs.
3. Bloomfield, the Neo Bloomfieldians and the American Structuralism-
Linguistics as an autonomous discipline - linguistics "empirical" and "anti - mentalistic".
4. Structural linguistics on the continent and in England - a very brief account - no detailed account of Halliday's Scale & Category/ Systemic Grammar or the Functional Sentence Perspective of the Prague School to be attempted.
5. Introduction to Transformational Generative Grammar.
- (iv) Kind of Linguistics - a brief introduction to the concepts socio-linguistics; Psycho/Neuro Linguistic Contrastive linguistics, etc.

II. Phonetics and Phonology

- (a) Articulatory, Auditory and Acoustic Phonotics- a brief account of how each is different in orientation from the others.
- (b) Definitions -Phoneme, Phones, Allophones.
- (i) The Principles of Phonemic Analysis.
- (ii) The Phonology of English
- (iii) Practice in Transcription

- (c) Stress, the tonic syllable, Pitch (Movement) and Tone.
(Description from the angle of Phonetics - examples from English and the tone languages of the North-East).

III. Morphology and certain Morpho-Phonemic Processes (Structural)

- (a) The Morphemes Vs. the word - definitions.

- (i) Kinds of Morphemes :

Free, Bound, Fused and Zero Morphemes - Suppletion
(Examples from English)

- (b) Stem, Root and Affix:

- (i) A brief account of their identification thro 'examples.

- (ii) Affixes as Prefixes, Infixes and Suffixes.

- (iii) Affixes as Derivational (Class-changing and class-maintaining) and Inflectional affixes.

- (iv) A morphological analysis of English words.

- (d) Morphemes and their allomorphic variants /alternants. The Plural, the Past Tense and the 3rd Person Singular Present Tense Morphemes in English and their allomorphic variations.

- (e) Morpho-phonemic processes :

- (i) Assimilation (aadeeshasandhi)

- (ii) Addition of Phonemes (aagamasandhi)

- (iii) Loss of Phonemes (lepasandhi)

- (iv) Stress shift.

IV Syntax (Structure)

- (a) Construction Types and their constituents

- (i) The Structures of Predication (Subject - Predicate) Complementation (Verbal-Complement), Modification (Head-Modifier), Subordination (Dep. Unit. Subordinator),

Co-ordination (Ind. Unit-Co-Ord. Ind. Unit). (As in The Structure of American English : Nelson Francis & CIEFL PGTOE Linguistic Lessons)

(b) Immediate Constituents Analysis

- (i) Binary cuts and bracketing -- (Three diagrams or boxes)
- (ii) Immediate constituents -- ultimate constituents
- (iii) Regular and Discontinuous IC Analysis.

(c) Practice in IC Analysis of English Sentences

- (i) In illustration of the given construction types
- (ii) In disambiguating ambiguous sentences.
- (iii) In illustration of regular and discontinuous ICs etc.
(Highly complicated sentences are to be avoided)

V. Traditional Semantics

The treatment of meaning in Structural Linguistics:
meaning only as a heuristic device and not as subject
matter of linguistic analysis -- arguments.

(b) Traditional Semantics

- (i) Definition
- (ii) Saussurean differential meaning.
- (iii) Relationships of "Reference" and "Sense".
- (iv) Paradigmatics and Syntagmatic relations of Sense.
(C) Relationship of "Sense" among words:
 - (i) Synonymy and its kinds : True, total, Complete Synonymies -
-Synonymy as symmetrical Hyponymy etc.
 - (ii) Hyponymy and incompatibility - Superordinate terms -
incompatibility and difference of Sense etc.
 - (iii) Homonymy & Homograph
- (v) Ambiguity & Polysemy - structural Vs. Lexical ambiguity
- (v) Antonymy.

COURSE XII (Option B)

American Literature I (19th Century Am. Literature).

1. David Thoreau : Walden
2. Edgar Allan Poe : "The Fall of the House of Usher"
"The Purloined Letter"
"The Raven"
"The Philosophy of Composition"
3. Nathaniel Hawthorne : The Scarlet Letter
4. Herman Melville : Moby Dick
5. Mark Twain : The Adventures of Huckleberry Finn
6. Henry James : The Ambassadors
7. Walt Whitman : Leaves of Grass

The Following Poems are for detailed Study from Leaves of Grass

1. "Song of Myself"
2. "I Hear America Singing"
3. "I Sing the Body Electric"
4. "I Hear it was changed Against Me"
5. "Who Learns My Lesson Complete ?"
6. "Over the Carnage Rose a Prophetic Voice"
7. "When Lilacs Lost in the Dooryard Bloomed"
8. "Passage to India"

COURSE XII (Option C)

Commonwealth Literature

- Chinua Achebe : Arrow of God
- James Ngugi : A Grain of Wheat
- Alan Paton : Cry, the Beloved Country
- Nasine Gordemier : My Son's Story
- V.S. Naipaul : A House for Mr. Biswas
- Patrick White : The Tree of Man.

FOURTH SEMESTER

COURSE XIII (SHAKESPEARE)

1. King Lear
2. Macbeth
3. Measure for Measure
4. As You Like It
5. The Tempest

COURSE XIV (INDIAN WRITING IN ENGLISH)

1. Mulk Raj Anand : Untouchable
2. Raja Rao : Kenthapura
3. R.K.Narayan : The Guide
4. Anita Desai : Fire on the Mountain
5. Nissim Ezokiel : 'Foet, Lover, Birdwatcher'
'Night of the Scorpion'
'Goodbye Party for Miss Pushpa T.S.'
'A Time to Change'
'Enterprise'
6. Kamala Das : 'An Introduction'
'The Old Playhouse'
'Ghanashyam'
'The Wild Bougainvillae'
'Jaisurya'
7. A.K.Ramanujan : 'Breaded Fish'
'A River'
'Small-Scale Reflections on a Great House'
'Obituary'

COURSE XVI (OPTION C)

WORLD LITERATURE IN TRANSLATION

1. Sophocles : Oedipus Rex.
2. Ibsen : A Doll's House
3. Camus : The Outsider
4. Thomas Mann : Death In Venice
5. Ghalib : Hidden Lute : An Anthology of Two
Hundred Years of Urdu Poetry
Trans. Ralph Russels.
6. Tagore : Collected Poems and Plays of
Rabindra Nath Tagore. London:
Macmillan, 1936 (1973 reprint)
7. Pablo Neruda : Selected Poems, Edited by Nathaniel
Tarn, England: Penguin Books Ltd. 197
'Every Day You Play.....'
'Arts Poetica'
'Walking Around'
'There's No Forgetting (Sonata)'
'I'M Explaining a Few Things'
'Fable of the Mermaid and the Drunks'

- (b) Style as convergence of Textual Pattern - Roman Jakobson
- (c) Linguistic tools for the analysis of a text.
- (d) Stylistic Analysis : a model - "Static focusing" in lyrical poetry discussed in HG Widdowson's "The Untrodden ways".

COURSE XVI (OPTION B)

AMERICAN LITERATURE II (20th Century Am. Literature)

Section - I: Fiction

- 1. William Faulkner : The Sound and the Fury.
- 2. Ralph Ellison : Invisible Man
- 3. Saul Bellow : Herzog

Section - II : Drama

- 4. Robert Frost : The following poems are for detailed study
 - 1. "Mending Wall"
 - 2. "Home Burial"
 - 3. "After Apple-Picking"
 - 4. "An Old Man's Winter Night"
 - 5. "The Oven Bird"
 - 6. "Birches"
 - 7. "West-running Brook"
 - 8. "Desert Places"
- 5. Wallace Stevens : The following poems are for detailed study
 - 1. "The man with the Blue Guitar"
 - 2. "Notes Toward a Supreme Fiction"
 - 3. "The Snow-Man"
 - 4. "The Anecdote of the Jar".
- 6. Eugene O'Neill : Mourning Becomes Electra
- 7. Arthur Miller : Death of a Salesman

8. Jayanta Mahapatra : 'The Captive Air of Chandipur-on-sea'
'Dawn at Puri'
'Morning Signs'
'The Abandoned British Cemetery at Balaso'
'Events'

COURSE XV (LITERATURE CRITICISM III)

1. I.A.Richards : 'The Four kinds of Meaning'
2. Sigmund Freud : 'Creative Writers and Day Dreaming'
3. Edmund Wilson : 'Marxism and Literature'
4. T.S.Eliot : 'Tradition and the Individual Talent'
5. Northrop Frye : 'The Archetypes of Literature'
6. R.Leavis : 'Literature Criticism and Philosophy'
7. Cleanth Brooks : 'The Language of Paradox'
8. W.K.Wimsatt & M.C. Beardsley : 'The Intentional Fallacy'
9. Roland Barthes : 'The Death of the Author'

Texts:

1. David Lodge (ed) - 20th Century Literature Criticism
London: Longman, 1975.
2. V.S. Seturaman (ed)-Contemporary Criticism:
An Anthology, Madras:
Macmillan, 1959.
3. B.Das & J Mahanty (ed) -Literature Criticism
A Reading, New Delhi; OUP, 1955.

COURSE XVI (OPTION A)

LANGUAGE - II.

1. Linguistics and Language Teaching
 - (I) Psycholinguistics and Sociolinguistic aspects of language learning
 - (a) Language Acquisition
 - (b) Second and Foreign Language Learning
 - (c) Bilingualism, multilingualism
 - (d) Errors.

2. Contrastive Studies and their relevance for Language teaching

- (a) Origins, assumptions and orientation (linguistics, psychological as well as pedagogical)
- (b) CA: claims and criticism
- (c) Theoretical Vs. Applied CA
- (d) CA and its areas of influence : Second Language Teaching, Translation, Language Typological Studies.

3. Error Analysis and Interlanguage

- (a) Origins, assumptions and orientation (linguistics, Psychological as well as pedagogical)
- (b) Mistakes, Errors and "Strategies": Their causes and kinds.
- (c) Interlanguage and the focus on Language Learner's Language (errors as well as ~~non~~ non-errors)
- (d) Implications for language teaching.

4. Stylistics and the Teaching of Literature

- i. A critical review of the various definitions of style
- ii. The contextual determinants of style.
- iii. The Scope and function of Stylistics.
 - (a) Stylistics and literary interpretation
 - (b) Linguistic analysis and Stylistic analysis
 - (c) Psychology and Stylistics
 - (d) Stylistics and value judgements

iv. Exercises in Stylistic Analysis

5. Translation

- (a) Is translation an Art or Science
- (b) Fidelity Vs. Purpose in Translation
- (c) Principles of Translation/Translation Theory.
- (d) Translation and Cultural Factors

6. Stylistics and Discourse Analysis and the Teaching of Literature

- (a) Standard Language and Poetic Language and Style as deviation - Jan Mukarovsky.

ENVIRONMENT COURSE.

1. F.R. Leavis : Culture and Environment
&
Dennys Thompson
2. Mahapatra, Sitakant : The Awakened Wind (The Oral Poetry of
The Indian Tribes) Delhi:Vikas, 1983.
3. Thoreau, Henry D. : Walden
4. Richard Jefferies : The Story of My Life.
5. Raymond Williams : The Country and the City.

5: 2: 4: (25)

K H A S I D E P A R T M E N T

N E H U

ANNEXURE-'C'

Environmental Awareness in Khasi Literature.

Course Content:

100 Marks

POETRY

1. V.G.Bareh, Ki Poetry Khasi, "Ka wah Umkhrach" "Hapdeng
ki 'Law kynjah ka Tlang"
2. C.Woflang, Sur Phalang Kingmut, "Wahduid Rupa"
3. S.S.Majaw, Ka Tragoidia bad ki Poim, "Ummat ka Jingleit"

PROSE

4. P.G.Gatphoh, Umjer Ksiar "U pujer u 'puthoh ka Meirilung"
5. H.O.Mawrie, Ka pyrkhath u Khasi "U Khasi bad ka Mariang"
(Chapters 15 & 16)
6. Sorendro Khongsit, Ki dieng bad ka Culture jong ngi
7. Dhirendro Ramsiej, K-a Mariang bad u Khasi, " Ka Mariang
ha ka rukom pyrkhath u Khasi"
8. L.H.Pde, Ka law Lyngdoh bad ka knia Phod-Sohlang
Hima Mawphlang (Only Part.I)

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M.A. PROGRAMME IN KHASISEMESTER .I.Course I: Linguistics-I100 Marks1. Language and Linguistics

- 1) Definition and scope of linguistics.
- 2) Schools of Linguistics
- 3) Human Language versus animal communication
- 4) Language structure: morphology and syntax

2. Syntax and Semantics

Traditional Grammar, IC Analysis, Phrase structure Grammar, Transformational Generative Grammar.

3. Aspects of Khasi Syntax.References.

- 1) J. Aitkhison, General Linguistics (Bath : The English Universities Press Ltd.
- 2) R.W. Langacker, Language and its Structure (New York: Harcourt Brace Jovanovich Inc. 1973).
- 3) D. Crystal, Linguistics (Penguin Books, 1971)
- 4) N. Chomsky, Syntactic Structures (The Hague: Mouton 1957)
- 5) Aspect of the Theory of Syntax (Mass: MIT Press, 1965)
- 6) A Radford, Transformational Grammar: A first Course (London) Cambridge University Press, 1990)
- 7) N. Krishnaswamy, An Introduction to Linguistics for Language Teachers (Bombay: Somaiya Publications, 1971)
- 8) F.W. Householder, Syntactic Theory, I) Structuralist (Penguin Books, 1972)
- 9) P.H. Mathew, Morphology (Cambridge University Press, 1974)
- 10) Relevant Khasi Texts.

Course II: Khasi Poetry I from 1888-1940

----- 100

1. Development of Khasi Poetry up to 1940 (1940)
2. Amjad Ali : "Synshar Riw Khasi", "Ieng Riw Khasi"
3. Morkha Joseph : "U Jumai Bah ka Ri Khasi"
4. Soso Tham : Chapter 6-10.
5. L. Lewis : "Ka Pyrem ", " Ka Tlang".
6. H. Elias : "Na Wai Khyrwi", "Dymmiew Rngi".
- 7) P. Gatphoh : U Sier Lapalang
8. B. Thangkhiew : "U Nongtem Duitara"

*The corrected syllabus is placed
at back page.*

Contdp.2/

Course III: Khasi Literary Criticism - 100

- 1) Development of Literary Theory and Criticism to date
- 2) E.Chyne : "Ka Jingaikhmat"
- 3) H.Elias : "Shaphang ka Poetry"
- 4) G.Gatphoh : "Balei ba ngi dei ban pule ia ka Poetry"
- 5) Owen Rowie : Ka Literature
- 6) F.M.Pugh : " Ha ki Nongpule" in ka Sawangka ia ki Saw ngut ba iap Mynsaw.
- 7) B.L.Swer : Katto katne shaphang ka Lyric
- 8) H.W.Sten : Shaphang Ka Novel
- 9) J.S.Shangpliang : Ki snap Ka Novel (excluding Ch. 6.7).

Course IV : Khasi Fiction I ---- 100.

- 1) Survey of the Department of Khasi Fiction up to 1970.
- 2) J.Roberts : U Moses
- 3) H.C.Roy : U Kausik
- 4) P.Gatphoh : Ka Lukhimal
- 5) S.Q.Sumer : Ka Hima Ka Jingieit
- 6) S.J Duncan : "Phim Ngeit" "Wat ai Nishan ia Kiwei".

Course V. Linguistics -II

Phonetics and Phonology:

- 1) The production of speech acoustic, articulatory, auditory
- 2) Description of consonants : English and Khasi
- 3) Description of vowels; Cardinal and secondary in English and Khasi.
- 4) IPA symbols and transcription : English
- 5) Phonological rules and rule ordering
- 6) Aspect of Khasi Phonology.

Reference.

1. D.Abercrombie, Elements of General Phonetics (Edinburgh: University Press, 1957)
 2. Broshanan and Malmberg, Introduction to Phonotics (London: Cambridge University Press 1970)
 3. R.Lass: Phonology: An Introduction to Basic concepts (London: Cambridge University Press, 1980).
 4. E.C. Fudge, Phonology, Penguin Modern Linguistic Readings (Harmondsworth: Penguin ~~Books~~ Books Limited, 1973)
 5. J.D.O. connor, Phonotics (Harmondsworth: Penguin Books Limited, 1973)
 6. H.W.Sten, Shaphang Ka Ktien Khasi (1991)
-

Course VI. Khasi Drama -I - 100 Marks.

1. A Survey of the Development of Khasi Drama up to 1967.
2. Hari Charan Roy, Ka Savitri
3. Dinonath Roy, U Arbnai
4. Mondon Bareth, U Mihsngi
5. Peace Roy Pariat, Ka Shangkhewiah Ki Rang.
6. F.M.Pugh, Ka Sawangka la ki San Nqut Baiap.

Course VII. Literary Theory and Criticism - 100 marks.

1. Aristotle, The Poetics
2. John Dryden, An Essay of Dramatic Poesie
3. William Wordsworth, Preface to the Lyrical Ballads,
4. Mathew Arnold "The Study of Poetry" and the Function of Criticism at the Present Time"
5. T.S.Eliot, "Tradition and the Individual Talent".

Course VIII . Khasi Prose - 100 marks.

1. R.T.Rymbai, "Ka Literature" Ka Thiar Ki Nongthoh. Vol.I.
2. H.W.Sten, "USynniang u G.P.Gatphoh sha ka thoh ka Tar Khasi" Ka Thiar Ki Nongthoh Vol.II.
3. I.M.Simon, "Haba ka ktien ka Im ka Haitbynriew ka IM" Vol.III
4. S.S.Majaw, U Rabon Singh kum u stad Pyrkhat" Vol.iii.
5. B.L.Swer, "U Klew bad ka Sngi kumba ki paw ha ki Nongthoh bapher" Vol.V.
6. R.S.Lyngdoh, "Ka Dorbar Biei" Vol.VI.

Semester - IIICourse - IX : Literature in Translation

- 100 marks

1. Bible, Ka Kitab u Job
2. L.H.Pde & S.Dkhar, Ka Mahabrata
3. S.J.Duncan, U Androkliś bad u Sing
4. J.Kharmih, U Mayor ka Casterbridge
5. B.L.Swer, U Syiem ~~Ok~~ Oedipus.

Course- X: Linguistics- III.

- 100 marks

Language Teaching.

1. Relationship between Linguistics and language Teaching
2. Language Acquisition and Language Teaching
3. Aims and Principles of Language Teaching
4. Methods of Language Teaching.
5. Contrastive Analysis
6. Technological Aids currently used in Language Teaching.

B. Stylistics.

1. Definition of Stylistics
2. The Theories of Style
3. The uses of Stylistics in Literary language analysis and language teaching.
4. Vocabulary
5. Language register.

References

1. M.A.K. Halliday, Angus McIntosh, Peter Stevens, The Linguistics Sciences and Language Teaching (London: ELBS, 1970 or latest ed.)
2. W.M.Rivers, Teaching Foreign Language Skills (Chicago: University of Chicago Press, 1968)
3. Harold B.Allen, Applies English Linguistics (New York: Heredith Publishing Co. 1964)
4. A. Chandrasekhar, A New Approach to Language Teaching (Delhi: The Linguistic Circle of Delhi, 1965)
5. Robert Lado, Language Teaching (New York: Mc Graw Hill Inc, 1974)
6. G.W.Turner, Stylistics (Harmondsworth : Penguin Books Limited 1977)
7. Allan Warner, A Short Guide to English Style (London: OUP, 1961)

As far as possible the latest edition of the text should be consulted.

Course :XI Khasi Fiction II.

1. The Development of Khasi Fiction from 1971 to date
2. D.T.Laloo, Ka Lasubon
3. K.W.Nongrum, U Wadbor bad U Shanbor
4. W.Tiewsoh, Kam Kalbut
5. L.H.Pde, Tang Ma Phi Khun Baielit
6. H.W.Sten, Ka Samla Nongkyndong
7. Shanphrang Synrem, Ka Palong ka Jingieit
8. Remy Fancon, Ka Dak Bangla

1. V.G.Bareh, "Ka Lynti Umiam" "Ka Wah Umkrah"
2. B.C.Jyrwa, "U Klew"
3. D.S.Khongdup, "Ka Ballad u Kongbah Larkiar" Sonnets Ito X
4. S.J.Duncan, "Na U Lum Nga Peit" "Lum Sohpet Bneng"
5. F.M.Pugh, "Ka Phawar Pharshi" "Ka Proseshon Bah"
6. H.W.Sten, Ka Burom Ba La Jah" Kitab III
7. E.K.Nongbet, "U Kyrmen"
8. S.Rynjah, " " (Piece to be selected by
Dr.Swâr)

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Course-XIII

Khasi Drama -II

--- 100 marks.

1. A Survey of the Development of Khasi Drama from 1967 to date
2. D.S.Khongdup, U Baieit Donshkor
3. S.J.Duncan, Ka Tiew Larun
4. A.Jala, Haba ka Kupa Jot ka Dawa
5. R.Fancon, U Kiang Nongbah
6. R.Nongkynrih, Ka Bniat hamar Ka Bniat
7. L.H.Pde, Yn Map?

.....

Course XIV Cultural Pattern in Khasi Literature - 100 marks

1. Definition and Demensions of Culture
2. R.S.Berry, Ka Jingsneng Tymmen (Part.II)
3. R.M.Roy, "Jingkyrsiew na Seng"
4. S.C.Roy, "Tip Blei", "Tip Briew", "Ka Pyrthei" In Ka Niam ki Khasi
5. H.Lyngdoh, "Ki jaid Syiem bad ki Jaid Lyngdoh" "Ki Mawbyinna"
6. D.T.Laloo, Ka Rongbiria u Hynniew Trep Chapters I, II, III & VIII
7. G.Costa, Ka Riti jong ka Ri Laiphew Syiem, Chapters XVI, XXIV, XXV

Course -XV

Linguistics IV
SOCIOLINGUISTICS

- 100 marks.

1. Definition and Scope of Sociolinguistics
2. Language Choice and international sociolinguistics, code switching, code mixing, borrowing, linguistic constraints on code change, diglossia, high and low varieties.
3. Language Variation and dialectology: Language and dialect, regional dialects, isolosses, spatial diffusion, wave model social dialects, creole, pidgin.
4. The Siciology of language : bilingualism, Micro sociolinguistics, macro-sociolinguistics language standardization, language planning and language policy.
5. Some aspects of sociolinguistics in Khasi.

References

1. R.A.Hudson, Sociolinguistics (Cambridge: Cambridge University Press)
2. Roger T.Bell, Sociolinguistics: Coals, approaches and Problems (London :B.T.Batsford Ltd)
3. D.Hymes, Foundations in Sociolinguistics : an ethnographis study Travistock Publications.
4. P.P.Gilioli, Language and Social Context (Penguin books Ltd)
5. J.K. Chambers and P.Trudgill Dialectology (Cambridge: CUP)
6. P.Trudgill, Sociolinguistics (Penguin books Ltd)
7. J.A. Fishman, Reading in the Sociology of Language (The Hague: Mouton)

Revised Ist Semester - March 1996.Moral Philosophy - I.

ANNEXURE-'D'

- I. Ethical Naturalism
- ii. Intuitionism
- iii. Emotivism
- iv. Prescriptivism
- v. Environmental Ethics.

Suggested Readings:

1. R.B. perry, 'Value As An Any Object of Any Interest' printed in W.Sellars and John Hospers book Readings in Ethical Theory (1970) pp.138-151.
2. G.E.Moore, Principia Ethica, Cambridge University Press, London (1903) Ch.1, pp.1-36.
3. A.J.Ayer, The Language, Truth and Logic, (1935) Ch.vi, pp.103-112.
4. C.L.Stevenson, The Emotive theory of Ethical Terms, mind (46) 1937, and the Emotive Conception of Ethics and Its Cognitive Implications. Philosophical Review (1950), reprinted in W.Sellars and John Hospers book Readings in Ethical Theory (1970) pp.254-27
5. R.M.Hare, The language of Morals, Oxford (1952) Ch.v.vi, vii, viii pp. 79-137.
6. Singer Peter, Applied Ethics.

Additional Readings:

1. W.K.Frankena, The Naturalistic Fallacy Mind (1939)
2. A.N.Prior, Logic and the Basis of Ethics, Oxford (1949)
3. Frankena William, 'Ethical Naturalism Renovates' The Review of Metaphysics (1957)
4. Warnock Mary, Ethics Since 1900, Oxford (1960)
5. Brandt Richard, The Emotive Theory of Ethics, Philosophical Review (1950)
6. W.D.Hudson, Ethical Intuitionism, Macmillan Press, (1967)
7. G.C.Kerner, The Revolution of Ethical Theory, Oxford (1966)
8. Nowell Smith P.H. Ethics, London (1954)
9. R.M.Hare, Freedom and Reason, Oxford (1967)
10. Gilbert Harman, The Nature of Morality, Oxford University Press (1977)
11. Paul Edward, Logic of Moral Discourse, London (1955)
12. John Hospers, An Introduction to Philosophical Analysis, Allied Publisher (1971)

- (v) Syllabi on Environment-Department of Zoology, Botany and Bio-Chemistry.

The Dean, School of Life Sciences has forwarded the M.Sc. Syllabi on Environmental awareness courses of the Departments of Zoology, Botany and Bio-Chemistry duly approved by the School Board of Life Sciences in its meeting held on 27.5.96 with the observation that these courses should be compulsory and non-credit courses, which must be cleared by the candidate in order to earn the degree.

The Syllabi is placed at Annexure-'A', 'B' and 'C'.

The matter is placed before the Council for consideration.

5:2:5:(2)
DEPARTMENT OF ZOOLOGY
M.SC. SYLLABUS

ANNEXURE-'A'

Z-301 ECOLOGY AND ENVIRONMENTAL BIOLOGY (THEORY)
(Presently approved as Animal Ecology and Behaviour)

Unit-1

1. Ecology and Environment - Basic concepts, definitions, objectives and scope; Sub-divisions of Ecology; Levels of organisation in Biosphere.
2. Structure of ecosystem - Abiotic and Biotic components and their relationships, variations in physical environment and adaptations, Homeostasis.
3. Law of limiting factors, Shelford's law of Tolerance, Liebig's Law of minimum and important limiting factors.

Unit-2

1. Diversity of Ecosystems - Salient features of aquatic and terrestrial environments and their biotic communities.
2. Biotic community concept and community analysis - organisation, population density, relative abundance, frequency, dominance, carrying capacity, species richness and species diversity.
3. Community development - Types of community changes, causes and examples of ecological succession; Climax community and stability.
4. The Niche concept in community ecology.

Unit-3

1. Population Ecology - Growth patterns, natality and mortality; Effect of density dependent and density independent factors.
2. Life-history strategies - 'K' and 'r' - selection; Age and sex ratios; Life-tables and survivorship curves.
3. Population interactions - Predation and Predator - Prey relationships, competition and population regulation; Mutualism, commensalism, symbiosis and parasitism.

Unit-4

1. Trophic dynamics - Trophic structure, food-chain and food-webs; Energy flow and Lindemann's trophic dynamics concept; Ecological efficiencies; Trophic relations and ecological pyramids.
2. Productivity - concepts of biomass and production; Assessment of primary and secondary production.
3. Biogeochemical cycles - Carbon, Phosphorus, Nitrogen and Sulphur cycles; Impact of human activity on nutrient cycles.

Unit-5

1. Environmental concerns - Population Explosion, Green house effect, Global warming and Ozone depletion.
2. Environmental pollution - Air, water and noise pollution; various types of pollutants, Environment Education and Pollution legislation in India, Biomagnification.
3. Animal Behaviour - Feeding, learning, parental care, mimicry and social behaviours, Circadian rhythms, migration in fishes and birds, Sociobiology.

(Presently approved as Animal Ecology and Behaviour (Practical))

1. Analysis of pH and specific conductivity of soil samples
2. Analysis of moisture contents of different types of soil
3. Study of Temperature profile of soil layers
4. Estimation of organic carbon of the soil samples
5. Estimation of Nitrate content of the soil
6. Estimation of Phosphate content of the soil
7. Qualitative analysis of soil micro-arthropods
8. Quantitative abundance of arthropod communities in different soil
9. Vertical distribution of edaphic communities
10. Estimation of population size of a Known sample
11. Estimation of population size of unknown samples (dots)
12. Study of effect of thermal stress on housefly
13. Study of the effect of crowding on fecundity in Drosophila
14. Analysis of pH and specific conductivity in water samples
15. Estimation of dissolved oxygen of water samples
16. Analysis of morphological variations in a natural population
17. Comparison of community similarities between natural population
18. Analysis of community structure and succession in a natural population
19. Estimation of biomass (by harvest method) in a terrestrial, eco-system
20. Analysis of species diversity in a natural population

Suggested Readings :-

1. Dajoz, R (1977) Introduction to Ecology, Holder and Soughton
2. Gurjar, R.K. (1994) New Dimensions in Water Environment and Ecology, Printwell Publishers
3. Khoshoo, T.N. (1984) Environmental Concerns and Strategies, Natraj Publishers
4. Kormondy, E.J. (1978) Concepts of Ecology, Prentice Hall of India, Pvt.Ltd.
5. Nebel, Bernard J. (1993) Environmental Science (4th Edn.) Prentice Hall Inc.
6. Odum, E.P. (1971) Fundamentals of Ecology (3rd Edn.) W.B. Saunders
7. Odum, E.P. (1975) Ecology, Holt, Reinhart and Winston Inc.
8. Remmert, H. (1980) Ecology, A text book, Springer Verlag
9. Ricklefs, Robert E. (1990) Ecology, W.H. Freeman & Co.
10. Smith, R.L. (1974) Ecology and Field Biology (2nd Edn.) Harper & Row Publishers
11. Trivedi, P.R. (1992) Man and Environment, Akashdeep Publishing House, New Delhi.

B-303 Ecology and Environment
(Theory)

- Unit I Scope of Ecology; Concepts pertaining to limiting factors; Population and community concepts; Progress of plant ecology in India.
- Unit II Environmental factors - Soil, water, light, temperature and fire factors; Environmental stresses - water pollution and air pollution; soil erosion.
- Unit III Population growth; Survivorship and life table analysis; Population dynamics and plant population regulation; Population interactions - Gause hypothesis, resource competition, symbiosis, predation, herbivory, co-existence; Ecotypic differentiation; C-S-R and r & k strategies.
- Unit IV Structure of plant community - Analytic and synthetic characters of community, life form and biological spectrum, diversity and dominance indices; Methods of studying vegetation - plot and plotless sampling techniques and remote sensing; Succession and climax - causes and types of succession; Climax concept and climax hypotheses - monocl意思, polyclimax, information theory and climax pattern hypotheses.

Suggested Readings :

- Daubenmire, R. 1974. Plants and Environment. John Wiley & Sons. New York.
- Hanson, H.C. and Churchill, E.D. 1963. Plant Communities. Reinhold Pub. Corp.
- Miller, C.E., Turk, L.M., and Foth, H.D. 1965. Fundamental of Soil Science. John Wiley & Sons, New York.
- Kormondy, E.J. 1978. Concepts of Ecology. Prentice Hall of India, New Delhi.
- Oosting, H.J. 1956. The study of Plant Communities, San Fransisco.
- Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders, Philadelphia.
- Whittaker, R.H. 1975. Communities and Ecosystems, McMillan.
- Silverton, J.W. 1982. Introduction to Plant Population, Longman.

- Grime, J.P. 1979. Plant Strategies and Ecosystem Processes. John Wiley & Sons, New York.
- Harper, J.L. 1977. Population Biology of Plants. Academic Press, New York.
- Smith, W.H. 1981. Air pollution and Forests. Springer Verlag, New York.
- White, J. 1985. Studies on Plant Demography. A Festschrift for John L. Harper, Acad. Press, London.
- Crawley, M.J. 1986 (ed.). Plant Ecology, Blackwell Scientific Publication, Oxford.
- Hansen, W.E. 1970. Readings in Population and Ecosystem Ecology. W.B. Saunders Co. Philadelphia.
- Kramer, P.J. 1949. Plant and Soil Water Relationship. McGraw Hill, New York.
- Misra, R. 1968. Ecology Workbook. Oxford & IBH, Delhi.
- Muller-Dombois, D. and H. Ellenberg, 1974. Aims and Methods of Vegetation Ecology. John Wiley & Sons, New York.
- Weaver, J.E. and Clements, F.E. 1988. Plant Ecology, McGraw Hill.

B-304 Ecology and Environment
(Practicals)

1. Study of the interactions between plants and environment :
 - (i) Study of micro climatic conditions in open and closed communities.
 - (ii) Study of plastic response of plant species under contrasting environmental conditions.
2. Study of soil profile.
3. Study of physico-chemical properties of soil-porosity, texture, water holding capacity, organic matter content.
4. Study of survivorship of plant populations and life table analysis.
5. Study of analytic characters of plant community using plot and plot-less method.
6. Study of species diversity and dominance in plant communities.
7. Study of similarity between plant communities using index of similarity and dissimilarity.
8. Study of plant succession on abandoned jhum fallows.

BC 102 B Environmental Biochemistry

MM 50

- Unit 1. Concept of environment, evolution of life biological hazards (animal care, prevention of acquired infection, microbiological safety, infectious hazards and laboratory animal housing).
- Unit 2. Radiations and chemicals as environmental hazards, types of radiation, radiation as mutagens, monitoring of radiation and safety measures, chemicals as carcinogens, chemical toxicity, handling and safety measures.
- Unit 3. Exploitation of microbes by humans, microbial pathogenesis, microbes as geochemical agents.

Suggested Readings:

1. R.Y. Stainier et al, 1987, General Microbiology, MacMillan.
2. N.V. Steers, 1986, Handbook of Laboratory Safety, C.P. CRC.
3. M. Castegnaro et al, 1986, Chemical Carcinogens, Springer Verlag.
4. J. Kiefer, 1993, Biological Radiation Effects, Springer Verlag.
5. A. Lehninger et al, 1994, Principles of Biochemistry, Worth Publ.

- (vi) Syllabi - Department of Economics and
Department of Library Sciences.

The Dean, School of Economics, Management and Information Sciences, N H U, Shillong has submitted the course syllabus entitled "Environment and Economy of North Eastern Region in India" for the M.A. (IV Semester). The syllabus was approved by the B.P.G.S. in Economics in its meeting on 30.3.96. The course is proposed to be serviced in lieu of the present course on the Economics of N.E.R. The School Board also approved the same in its meeting held on 21.5.96. The syllabus is placed at Annexure I.

The Dean, also forwarded the M.Lib.Sc. course syllabus on paper X "Information Sources on environment" approved by the B.P.G.S. in Library Science in its meeting held on 4.4.96. The School Board considered the same and its minutes is recorded as under:

" Considered the M.Lib.Sc. course syllabus on paper X "Information Sources on Environment" approved by Lib.Sc. BPGS held on 4.4.96.

This course will be substituted for Tour Diary, Job Diary and Viva Voce presently given as paper X, which is now spread over two semesters.

The course on Tour Diary, Job Diary and Viva Voce will make one paper now entitled as "Job Diary, Study tour reports and Viva Voce and served as paper V in Semester I of M.Lib.Sc. Course.

Resolved that the proposed changes be approved. Further resolved that Clause 4 of Regulations RC-2 be approved as per the resolution of the BPGS of Lib.& Information Science. The revised Clause 4 of RC-2 will now read as follows:

"A student admitted to the course shall work daily for two hours in the NEHU Central Library in the first semester to gain practical and clinical experience. A diary containing description of jobs performed daily will be maintained by the students in the format prescribed by the Department. The Diary will be signed daily by the Teacher-incharge of the Course. In addition to it, the student of the first semester will submit a report on the Libraries visited during study tour. The Diaries and study tour reports will also conduct Viva Voce".

The minutes of the B.P.G.S. in Lib.Science is also placed at Annexure II for perusal.

The matter is placed before the Council for consideration.

Annexure I

NORTH-EASTERN REGIONAL DEVELOPMENT COMMISSION
 NORTH-EASTERN REGIONAL DEVELOPMENT COMMISSION - I

Unit - I

- 1.1 Meaning of Environment ecology and Ecosystem
- 1.2 Environment, Population and Economic System
- 1.3 Major Natural Resources of NER: Forest, Minerals, Water, Land.
- 1.4 Pattern and Distribution, Utilization of Natural Resources

Unit -II

- 2.1. Major Environmental Issues related to Economic Development
- 2.2. Environmental Pollution, Deforestation, Hum Cultivation and Urbanization in North-Eastern Region.
- 2.3. Environmental Protection, Sustainable Resource Utilization.
- 2.4. Policy and Administration of Eco-Development.

Unit -III

- 3.1. Dualistic Structure of N.E. ~~Region~~ Economy.
- 3.2. Land Tenure System in NER
- 3.3. Agriculture and Horticulture Sector: Production, Productivity market and Distribution
- 3.4 Human Resource

Unit - IV

- 4.1 Industrial Development in NE
- 4.2. Major Industries of NE: Oil, Mining, Tea, Plywood, Fertilizer, Power and Cement.
- 4.3. Trade & Commerce: Intra and Inter Regional
- 4.4 Infrastructural Development.

Selected Rferences

1. Gunnar Myrdal: Economic Theory and Underdeveloped Regions. (Vora & Co. Publishers Private Ltd., Bombay). Reprint 1973.
2. Gerald M. Meier (Ed.): Leading Issues in Development Economics.
3. B. Pakem (ED.) : Regionalism in India (With Special Reference to North-East India . (Har-Anand Publications, New Delhi., 1993 - Part -III.
4. B.P.Singh: Problem of Change: A Study of North-East India (Oxford University Press, Bombay).

5. A.P. Sinha (Ed.): Changing North-East India (Ragan Publishers, Ludhiana)
6. P.C. Goswami (Ed) : Socio-Economic Research in Tribal Areas (Firma KLM, Calcutta)
7. Habung Payeng: Economic and Social Change in the North-East (Criterion Publication, New Delhi).
8. J.P. Singh: Human Resources of North-Eastern India, (Inter-India Publications, New Delhi).
9. B.K. Roy Burman : Demographic Profile of North-East India (Census of India Publication, New Delhi).
10. S.C. Srivastava: Demographic Profile of North-East India. (Mittal Publication, New Delhi).
11. B. Datta Ray (Ed.) : Pattern and Problems of Population in North-East India (Uppal Publishing House, New Delhi).
12. N.E.C.: Study of the Land System of Trinira, Meghalaya
13. J.P. Singh: Urban Land Use Planning in Hill Areas: A Case Study of Shillong (Inter-India Publications, Delhi.)
14. B. Datta Ray (Ed.): Emergence and Role of Middle Class in North-East India (Uppal Publishing House, New Delhi).
15. NEHU Seminar: Development Strategies for North-Eastern Region in Historical Perspective (NEHU, Shillong).
16. Taransankar Banerji (Ed.): Changing Land Systems and Tribal Areas in Eastern India (Subanarellha LC, Calcutta).
17. R.N. Bordoloi: Transfer and Alienation of Tribal Land in Assam: With Special Reference to the Karbis of the Karbi Anglong District (Guwahati).
18. Anand Kumar Yogi : Development of the North-East Region: Problems and Prospects (Spectrum Publications, Guwahati).
19. Khorshed Alam (Ed.): Planning in North-East India (Omsons Publications, New Delhi).
20. P.D. Saikia and U. Phukan: Rural Development in North East India (B.R. Publishing Corporation, Delhi).
21. P.C. Goswami: The Economic Development of Assam (Kalyani Publishers, New Delhi - Ludhiana). 2nd Edn., 1988.
22. D. Bhorali (Ed.): Economic Development of the North-Eastern Region (Spectrum Publications, Guwahati-Delhi). 1988.

23. F. Mathew: Tribal Economy of North-Eastern Region.
24. A.K. Agarwala: North-Eastern Economy: Problems and Prospects (mittal.Publications, Delhi).
25. N.C.A.E.R.: Techno-Economic Survey of NEFA, Assam; Tripura Nagaland 4 volumes (NCAEP, New Delhi).
26. Atul Goswami: Land Reforms and Peasant Movement: A Study of North-East India (Omsons Publications, New Delhi).
27. B.B. Dutta(ed.): Land-Use Pattern in North-East India (Bagan Publications, Lidhiana).
28. M.S.S.: Resource Potentials of North-East India (Meghalaya Science Society, Shillong).
29. K. ALAM (Ed.) : Agricultural Development in North-East India: Constraints and Prospects (Deep & Deep Publications), New Delhi).
30. A. Goswami : Prices and Cost of Living in India: A Case Study of Assam (Jain Book Depot, Delhi).
31. S.B. Medhi : Transport System and Economic Development in Assam (Publication Board, Guwahati).
32. J.B. Ganguli (Ed.) : Marketing in North-East India: Problems of Rural Markets (Omsons, Guwahati).
33. B.N. Mukherji : External Trade of Early North-Eastern India (Vikas Publishing House, New Delhi).

Recommended Readings- B

34. Arvill, Robert (1983): Man and Environment, Penguin Books.
35. Bohm, Peter and Allen V. Kneese (1971): Economics of Environment, Macmillan.
36. Chand, Attar (1985): Environmental Challenges, UDH Publishers, Delhi.
37. Dasgupta, Partha (1982): The Control of Resources, Oxford University Press. Delhi
38. Dorfman, Robert and Nancy Robert (1977): Economics of Environment: Selected Reading W.W. Norton and Company.
39. Fisher, Antony C. (1981): Resource and Environmental Economics, Cambridge University Press.
40. Hillary, E. (1984): Ecology- 2000: The Changing Face of Earth, (ed) Macheael Joseph, London.
41. Mahbub ul Haq (1983): Poverty Curtain, Oxford University Press, Delhi.

42. Meadows, D.W. (1973): Limits to Growth Universe books, New York.
43. Mills, E.S. Economic Analysis of Environmental Problems.
44. Pearce D.W. (1972) Environmental Economics, Longman, London.
45. Kerry R. Turner (1989) Economics of Natural Resources and Environment, Harvester Wheatsheaf, New-York.
46. Singh and Shekar (1984) Environmental Policy in India (ed) IIPA, Delhi.
47. Tewari D.N. (1987) Victims of Environmental Crisis, EBB Educational Pvt. Ltd.
48. Vakil Arun C (1984) Economic Aspects of Environmental Pollution in India.

Articles:

48. Baumol W.J. (1972) On Taxation and Control of Externalities American Economic Review , 62, June.
49. Coase, Ronald (1960) The Problems of Social Cost, Journal of Law and Economics , oct.
50. Ehrlich P.R. and A.N. Ehrlich (1988) Population , Plenty and poverty, National Geographic, Dec.
51. Hadder G.S. (1987) Statutes and standards for pollution Control in India, Economic and Political Weekly, Vol XXII, No 16, April 8.
52. Tisdell C () Sustainable Development: Differing Perspective on Ecologists and Economists and relevance to LDCs , World Development, Vol. 16, No 3.

Recommended Reading - C.

53. Sharma, P.D. (1981) Ecology and Environment, Rastogi Publications, Meerut.
54. Gopalakrishnan, R. (1995) The NE India: Land, Economy and People. Har Anand Publications.
55. Principles of Ecology, Odham.
56. R. Bhardwaj (1987) Environment and Development: An integrated approach in The Development Process of the Indian Economy edited by Brahamanand & Punchmukhi, Himalaya Publishing House.

NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF LIBRARY & INFORMATION SCIENCE: MAZURBHANJ COMPLEX
NONGTHYMMAI: SHILLONG-14

Minutes of the meeting of Local BPGS held on the 4th April, 1996.

A meeting of the Local Board of Post Graduate Studies was held in the Department of Library and Information Science: NEHU on the 4th April 1996 at 11.30 A.M. The members present were as follows :-

- | | |
|-------------------------|--------------|
| 1. Prof. J.C. Binwal | In the Chair |
| 2. Prof. Mahesh Lalwani | Member |
| 3. Dr. Veena Saraf | " |

2. Considered the contents of the course on "Information Sources on Environment", carrying 100 marks, to be substituted for Paper X, presently being offered as "Tour Diary, Job Diary, and Viva Voce" in the second semester.

Resolved to approve the contents of the Course (enclosed as Appendix 'A')

It was further resolved that the paper will be of 100 marks. It was also resolved that the existing Paper X, "Job Diary, Tour Diary and Viva Voce" may be substituted by the Paper X "Information Sources on Environment".

3. Considered the question as how to accommodate the existing paper No. X entitle "Job Diary, Tour Diary and Viva Voce" in the frame work of 1800 marks.

Resolved to amalgamate "Job Diary, Tour Diary and Viva Voce" papers spread presently over two semester into one Paper entitle "Job Diary, Study Tour Reports and Viva Voce" as Paper V to be offered in the first semester. It was further resolved that the distribution of marks for Job Diary, Study Tour Reports and Viva Voce will be as follows :-

Job Diary	50
Study Tour Reports	25
Viva Voce	25

4. Considered revision of Clause 4 of the regulations RC-2. The Members noted that the implementation of resolution No.3 will need revision in Clause 4. It was, therefore resolved to revise it as follows :

"A student admitted to the Course shall work daily for two hours in the NEHU Central Library in the first semester to gain practical and clinical experience. A diary containing description of jobs performed daily will be maintained by the students in the format prescribed by the Department. The diary will be signed daily by the Teacher-in-charge of the Course. In addition to it, the students of the first semester will submit a report on the Libraries visited during study tour. The diaries and study tour reports will be evaluated by a Committee constituted for the purpose. The Committee will also conduct Viva Voce.

The meeting ended with a vote of thanks to the Chair.

Sd/-
J.C. Binwal
Chairman.

PAPER X : INFORMATION SOURCES ON ENVIRONMENT: TOTAL MARKS : 100

1. Role of different types of primary documents :
Periodicals, Research-Reports, Patents, Standards, Theses, Conference-Proceedings.
2. Evaluation of secondary sources of information :
Encyclopedias, Dictionaries, Handbooks, Directories, Year Books, Indexing and abstracting services, Reviews of progress, Bibliographies.
3. Evaluation of Tertiary sources: Guides to the literature, Lists of Progress in Research, Guides to Organizations.
4. Computerized Data Bases and their retrieval Systems.
5. Brief survey of the activities of the important institutions and voluntary organization.

TEXT BOOKS

1. Eagle S. and Deschamps, J. Information Sources in Environmental Protection. London, Bowker - SAUR, 1995.
2. Environmental knowledge organization and Information Management, edited by Pavla Stancikova and Ingretrant Dahlberg. Frankfurt, Indexs Verlag, 1994.

RECOMMENDED BOOKS:

1. Walford's guide to reference material, 5th ed. Vol. I Science & Technology, London, Library Association, 1991.
2. Guide to reference books, edited by Eugene P. Sheehy. 10th ed. Chicago, American Library Association, 1986.
3. Guide to reference books covering materials from 1985-1990, edited by Robert Balay. Chicago, American Library Association, 1992.

(Vii) MA/M.Phil course in Political Science, History and Sociology.

The Dean, School of Social Sciences has forwarded the MA/M.Phil course in Political Science, History and Sociology duly approved by the School Board of Social Sciences in its meeting held on 22.5.96.

The same are placed at Annexure 'A', 'B' and 'C' respectively.

The matter is placed before the Council for consideration.

M.A. Course

Political Economy of Human Rights

1. The Changing Concept of Rights
The State-Society Relationship
2. The major influences on Contemporary Human Rights
 - a. The Historical Legacies
 - b. The Marxist world View
 - c. The Liberal Stream
 - d. The Anti-Colonial Struggles.
3. The Universal Declaration of Human Rights : Promises and Performances.
4. The International Covenants : Civil and Political Rights: Social, Cultural and Economic Rights.
5. Post Second world War : Organisations, Conventions and Agencies.
6. Human Rights Question in Post-Independent India, an Overview.
 - a. North East, Andhra, Punjab, Kashmir.
 - b. Dalits, Minorities, Tribals
 - c. Peasants and Agricultural workers.
7. The Structural adjustment strategies : The Question of Human Rights.
8. The Emerging Issues:
 - a. Validity of the Concept of Universal Human Rights.
 - b. The role of N.G.O.
 - c. State Violence Vs. Private Violence
 - d. The future of Human Vs. Problems and Prospects.
 - e. Human Rights Movements : The Emerging Trends.

Reading List:-

- Upendra Baxi, ed., 'The Right to be Human', New Delhi Lancer International, 1987.
- Cassese, Antonio, 'Human Rights in a Changing world' Oxford, Polity Press 1990.
- Chomsky, Noam and Edward S. Herman, 'The Political Economy of Human Rights: The Washington Connection and the Third World Fascism' Boston: South End Press, 1979.

- Falk, Richard, 'Human Rights and State Sovereignty'
New York, Holmes and Meier Publishers, 1981.
- Kothari, Rajni, 'Human Rights - A Movement in Search of a Theory'
Lokayan Bulletin, 5, 4-5, 1987.
- _____, 'State Against Democracy in Search of Human Governance'
Delhi, Ajanta Books International, 1988.
- McDougal, Myres, E. Harold Lasswell & Lung-Chu Chen, 'Human Rights and World Public Order'
New Haven : Yale University Press, 1980.
- Marx, Karl, 'Critique of Hegel's Philosophy of Rights'
ed., J.O. Malley, Cambridge, Cambridge University Press, 1970.
- T. Paine, Right of Man
ed., G. Collins, Harmondsworth: Penquin, 1969.
- Pollis, Admantia, 'Liberal Socialist and Third World Perspectives on Human Rights in Admantia
Pollis and Peter Schwan, eds., Towards a Human Rights Framework, New York : Praeger Publishers, 1987.
- Spencer, Herbert, Man Versus the State, London: Penquine Books 1934(1969).
- Luck, R., Natural Rights Theories : Their Origin and Development (Bombay, Cambridge Univ. Press 1979)
- Desai, A.R. Ed. Violations of Democratic Rights in India Vol. I&II, Bombay Popular Prakashan, 1986
- _____, Repression and Resistance in India
Bombay: Popular Prakashan, 1991.
- 'Civil Rights' (Indian National Congress Resolution, Amritsar in 1919) New Delhi, ICHR Reading material on Indian National Movement, 1987, (Mimeo).
- Cole, H.S.D. 'Human Rights and Basic Needs in a North-South Context, in Paula R. Newberg ed., The Politics of Human Rights, New York: New York University Press, 1980
- Gaikwad, Deepak, S. Civil Rights Movement in America, Delhi: Deep&Deep Publications, 1987.
- Henkin, L. Ed. The International Bill of Rights : The Covenant of Civil and Political Rights
New York: Columbia Univ. Press, 1981.
- Legesse, Asmarom, Human Rights in African Political Culture
in Kenneth W. Thomson, ed. The Moral Imperatives of Human Rights : A World Survey, Washington D.C., University Press of America, 1980.
- Morgan, The Law and Politics of Civil Rights and Liberties, New York. McGraw Hill Inc. 1985
- Skaines, Tor & Jan Egeland Eds. Human Rights in Developing Countries, 1986
Norwegian Univ. Press, 1986
- L.M. Singhvi, ed. Horizons of Freedom, Delhi: National Publishing house, 1986.
- United Nations, Universal Declarations of Human Rights : U.N. General Assembly Resolution 217 A(III), A/310, 10 December 1948
- Ved P. Nanda, James Scarritt and George W. Shepherd, eds., Global Human Rights Public Policies, Comparative Measures and NGOs Strategies, Boulder Colot westview Press, 1987

M.A. Course : Issues in women's Studies

This paper will be studied in the Indian Context.

1. Theories and Concepts : Status of women in India and its importance: The Liberal, Socialist, Post modernist and Radical Feminist theories, Patriarchy and Patriliney, matriarchy and Matriliney, women's Liberation, Feminism, women's empowerment, Autonomous, Women's Movement, Women's Oppression.
2. Women and Politics : The role of women in the political process, decision making and policy formulation, political parties and pressure groups, electoral process, leadership and positions of authority and power, Political awareness among women, Grass root politics, National Commission on women.
3. Issues:
 1. Inheritance and Property rights, dowry, economic security.
 2. Constitutional and Legal rights guaranteed to women
 3. Violence against women -Rural and urban, The Human Rights Question
 4. Reproductive rights
 5. women and National Income
 6. Literacy and Women
 7. Impact of Economic Liberalisation.

Book List:-

1. Davidson and Kramer, The Sociology of Gender, Rand McNally College Publi.Co., 1979.
2. Agnew Vijay, Elite Women in Indian Politics, Shakti Books, 1979.
3. Gupta, Amit Kumar, women and Society : The Developmental Perspective, Critirion Publications, New Delhi 1936
4. Kaushik, Susheela, Women's Oppression, Patterns and Perspectives Shakti Book, 1985.
5. Devendra Kiran, Status and Position of Women in India Vikash, New Delhi, 1985
6. Stacey Margaret, women, Power and Politics, Tavistock Publication, London, 1981.
7. Clarke, Alice W., Gender and Political Economy, OUP, 1993.
8. Roy Singha K. Debal, Women in Peasant Movements, Manohar 1992.
9. Rana Snehlata, Determinant of Political Participation Ajanta Publica, Delhi, 1989.
10. Mazumdar Veena, women in Panchayati Raj Structures New Delhi, 1989.
11. Bulbeek Chilla, One world women's Movement, Ajanta Publica, Delhi, 1989.

12. Vyas Anju and Singh Sumita, Women's Studies in India
Sage, New Delhi, 1993.
13. Woman in a Changing World, Ashai International Symposium,
Tokyo, 1985.
14. Kaushik, Susheela, women's Participation in Politics
Indian Association for women's Studies
Vikas, 1993.
15. Kalbagh, Chetena, Women and Development
Discovery Publishing House, New Delhi.
16. Shukla, D.M., Political Socialisation and Women Voters
Janaki Prakashan, Patna, New Delhi, 1979.
17. Shah, G., Social Movements in India; A Review of Literature
Sage, 1990
18. Sircar, M.C., Feminism in a Traditional Society : Women of
Manipur Valley
19. Bhoyan, B.D., The Tribal Women, Gyan Books Pvt.Ltd., New Delhi
20. Sen, Soumen, (Ed.), Status of women in Meghalaya
21. IIPA (Aizawl Local Branch Administrative Review (1994))
22. Agarwal Beena, A Field of one's Own
Cambridge University Press, 1994.
23. Jagger, Feminist Politics
24. Boles, Janetik, American Feminism
Sage Publica, New York, 1991
25. Boulding, Elise, women in the 20th Century world
Sage publica, New York 1977.

M.PHIL COURSE : ENVIRONMENTAL STUDIESObjectives:-

Environmental studies is a subject that has gained prominence today all over the world especially in the academic circles. This course on Environmental Studies has been proposed to acquaint the students with the concepts and some of the latest developments and problems. This has been done keeping in mind the need for a proper understanding of various concepts connected with it, besides taking into consideration the global and national concerns and the vital role played by important environmental groups like the Green peace, the Chipko and the Narmada Bachao Movements among others.

1. Concept of environment
2. Approaches and concepts . Ecological systems and Historical approaches to the study of environment.
3. Sustainable Development
4. Environment Degradation and Awareness : Ecology, Conservation and Resource Management, Pollution, Population and Tribal Perception.
5. Environmental Problems : The Global Concern
6. The National Policy on Environment
7. Environmental Movements : Green Peace, Chipko and Narmada Bachao.

Reading List:-

1. Agrawal, U.P. Rana S.U.S., Environment and Natural Resources Society of Bio-Solence, New Delhi, 1985
2. Bandhu, Desh and Eklavya, Chauhan, (Eds), Current Trends in Indian Environment, Today and Tomorrow's Printers and Publishers, New Delhi, 1990.
3. Bernet, Robert and Robert Estall (Eds.), Global Change and Challenge, Chapman & Hall, New York, 1991.
4. Caldwell, Lynton Keith, International Environmental Policy : Emergence and Dimension, Affiliated East-west Press Pvt.Ltd., New Delhi 1991.
5. Chand, Attar (Ed.), Environmental Pollution and Protection H.K. Publishers, New Delhi, 1989.
6. Gadgil, Madhav and Ramchandra Guha, This Fissured Land an Ecological History of India Oxford University Press, New Delhi, 1992.

7. James, M.M., Environmental Degradation and Development Strategies
ASHISH Publishing House, New Delhi 1991
8. Nagchaudhuri, B.D. and S. Bhat, The Global Environment Movement
Sterling Publishers Pvt.Ltd., New Delhi 1987
9. Pal, B.P., Environmental Conservation and Development
Natraj Publisher, Dehradun, 1982.
10. Rosenbaum, walter A., Environmental Politics and Policy
Affiliated East-West Pvt.Ltd., New Delhi
1991.
11. Sapru, R.K., Environment Planning and Management in India
Ashish Publishing House, New Delhi 1990
12. Taksuchi, K. and Yoshino M., (Eds.), The Global Environment
Springer -Verlag, Berlin Heidelberg, 1991.
13. white, I.D., et.al., Environmental System
Chapman and Hall, London, 1972.

5:2:7(8)
M.PHIL COURSE:- FEMINIST POLITICS

This Course aims at understanding Feminist Politics in the context of Political Philosophy.

1. Political values of Feminism liberal, traditional, Marxist, Socialist, Radical Feminist.
2. Analysis of women's oppression : The main perspective : Liberal, Traditional, Marxist, Socialist, Radical Feminist.
3. Concept of Social Change and Feminist Politics, Liberal, Traditional Marxist, Socialist and Radical Feminist.
4. Feminist Theories of political knowledge - Liberal Feminism and Elimination of bias, Maxism and the Science of the Proleteriate, Radical Feminism and the stand-point of women.

Bibliography:-

Alison M. Jaggard, Feminist Politics and Human Nature (Rowman & Allanheld Publishers, The Harvester Press Sussex)

The Rights and Wrongs of Women, edited by Juliet Mitchell and Ann Oakley (Harmondsworth : Penquin, 1976).

The Radical Future of Liberal Feminism (New York : Longmans, 1981)

Sex Based Discrimination (St. Paul, Minn: West Publishing Co. 1974)

John Stuart Mill and Harriet Taylor Mill : Essays on Sex Equality (Chicago : University of Chicago Press, 1970), p.190.

Shulamith Firestone, The Dialectic of Sex (New York : William Morrow, 1970), p.178.

Meg Luxton, More Than A Labour of Love : Three Generations of women's work in the Home (Toronto : women's Educational Press, 1930), p.104.

Karl Marx, The Economic and Philosophic Manuscripts of 1844, ed. and into. by / (New York : International Publishers, 1964), p.110.
Dirk J. Struik/

M PHIL COURSE IN HISTORY

I

TOTAL MARKS : 100

HISTORICAL METHOD

OBJECTIVE : The Course aims at introducing the students to the basic elements in the methodology of historical research. Special emphasis will be placed on the techniques particularly recent trends in historical writing.

COURSE CONTENT

1. Historical Research - definition and scope - concept of time : concept of historical sources - categories and classification : Formulation of research problem - hypothesis.
2. Data Collection - Documentary Sources : Data from field research sample and questionnaire : Folklore : Statistical data and quantification.
3. Evaluation of Sources - development of Critical Method : Internal and External Criticism : Evaluation of non-documentary and non-conventional sources : Oral Sources- Literary Sources :
4. Interpretation and organisation of materials : The thesis and short paper : Hypothesis - role and function : Outlining the thesis : narratives and analysis : Division of report - Documentation - preparation of Bibliography.

Recommended Reading :

- E H Carr : What is History
 Barjun, J and Graff H : Modern Researcher
 Barnes H E : History of Historical Writing
 C W Lachenmeyey : The Essence of Social Research
 Elton G : Practice of History
 Gattschalk : Generalization in History
 Mills C W : The Sociological Imagination
 P V Young : Scientific Social Survey and Research
 Topolski, J : Methodology of History
 Vansina J : The Oral Tradition : A Study of Historical Method

5:2:7(10)

M PHIL COURSE IN HISTORY

II

TOTAL MARKS : 100

CONCEPTS IN HISTORY

OBJECTIVE : The objective of this course is to introduce the scholars to the more complex and finer aspects of historiography. The aim is not merely to help the students to acquire knowledge, on concepts and theories in historiography, but more particularly to help them acquire the ability to apply these concepts of general historiography to specific areas of historical knowledge.

- A. 1. Objectivity in History
2. Generalisation in History
3. Causation in History
- B. 1. Postivism and Historiography
2. Historical Materialism and Historiography
3. Post Modernism and Historiography
- C. 1. Ancient Historiography -- Grece -- Roman, Indian, Chinese
2. Medieval Historiography -- Islamic traditions, Christian traditions.
3. Indian Historiography -- Colonial, Nationalist and Communalist Marxist.

SELECT READING

1. E H Carr, What is History ?
2. Marc Bloch, Historians Craft
3. P Gardiner, Theories of History
4. L Gottschalk, Generalisation in History
5. Arther Marwick, Nature of History
6. H E Barnes, History of Historical Writing
7. F Stern, Varieties of History
8. John Tosh, The Pursuit of History
9. D Harvey, The condition of Post-Modernity
10. F R Ankersmith , Historiography and Post-Modernity History and Theory 28(1989) 137-153
11. Wulf Kansteiner, Hayden White's Critique of the writing of History, History & Theory
12. Hayden White, Metahistory : The Historical Imagination in Nineteenth Century Europe (1973)
13. C H Phillips, Historians of India, Pakistan & Ceylon
14. Romila Thapar, From Lineage to State
15. R C Collingwood, The Idea of History
16. F Rosenthal, A History of Muslim Historiography
17. R L P Melburn, Early Christian Interpretations of History

5:2:7(11)

M PHIL COURSE IN HISTORY

III

TOTAL MARKS : 100

ORAL SOURCES IN HISTORICAL RESEARCH

OBJECTIVE: This course introduces the students to the techniques, methods and problems of oral sources within the framework of the critical methods.

COURSE CONTENTS :

1. Oral Sources - Oral History & Folklore - definition and categories : Early use of oral sources : Oral sources in recent historiography - local studies - social and political history - history of pre-literate societies.
2. Methods and techniques - interview, schedule/check list, knowledgeable respondent : Methodology of folklore : Oral evidence and conventional sources, inter relationship and inter-dependence.
3. Critical evaluation of oral sources - problems and limitations of oral evidence : Oral sources and critical method in History : Place of oral sources in historical research.
4. Recent studies - themes in African and European History -- Critical Assessment : Scope and use of oral sources in studies on North East India.

SELECT READING

Anthony Seldon and Joanna Pappworth : By Word of Mouth
(Metuen, 1983)

Paul Thompson : The View of the Past : Oral History (OUP 1978)

Jan Vansina : Oral Tradition (Routledge & Kegan Paul, 1965 ;
also Penguin, 1973)

John Tosh : Clan Leaders and Colonial Chiefs in Lango
(OUP 1978)

John Tosh : The Chronology of Oral Tradition (OUP 1974)

David Henige : Oral Historiography (Longmans , 1982)

M. PHILSOCIOLOGY OF RELIGION

This course is intended to provide a background to the study of various religious groups and issues at the national level and that of North-East India in particular.

I. Approaches

1. The study of religious phenomena
 2. Religion as social and cultural streams.
 3. Religion as a sub-system.
2. Social background of major religious groups in India.
 1. (a) Hinduism (b) Islam (c) Christianity (d) Buddhism.
 2. Religion and community
 3. Religion and issues.
3. Religious and social process.
 1. Religion and social change.
 2. Religion and ethnic identity.
 3. Religious re-vitalization and religious movements.
4. Religions in North-East India.
 1. Indigenous faith and proselytization.
 2. History of Hinduism, Islam and Christianity.
 3. (a) Religious orders and denominations, (b) Territorial and demographic distribution.

READINGS :

1. Berger, Peter, L. : "Social Reality of Religion"
Harmondsworth Penguin Books, 1973.
2. Sharpe, E.J. : Comparative Religion : A History
London Duckworth, 1975.
3. Yinger, J. Milton : The Scientific Study of Religion
New York, Macmillan, 1961.
4. Swanson, Guy, E. : The Birth of the Gods. Ann Arbor
University of Michigan Press, 1960.
5. Yinger, J. Milton : Sociology tools of Religion New York
Macmillan, 1961.

6. Benson Purnell H. : Religion in Contemporary Culture
New York Harper and Brothers, 1960.
7. Clark, Walter Huston : The Psychology of Religion New York
Macmillan, 1953.
8. Wilson, Bryan : Religion in Sociological Perspective
New York Oxford University Press, 1983.
9. Johnstone, Ronald, L. : Religion and Society in Interaction
The Sociology of Religion, Englewood
Cliffs, New Jersey Prentice Hall, 1975.
10. Robertson, Ronald, L. : Sociology of Religion Penguin Education
1976 Reprint.
11. John, Matthew, P. : Christianity Patiala Punjab University
1969.
12. Basu, Durga Das : The Essence of Hinduism New Delhi,
(Justice) Prentice Hall, 1990.
13. Thomas Edward, P. : The History of Buddhist Thought. London
Routledge & Kegan Paul 1971 Reprint.
14. Taylor, John B. : Islam London Litterworth Educational.
IIInd Ed 1975.
15. Ali, Muhammad Maulana : The Religion of Islam. New Delhi,
S. Chand & Co. Pvt. Ltd. 1968.
16. Spencer, Robert, F. (ed): Religion and Change in Contemporary
India Bombay, Oxford University Press,
1971.
17. Vries, Jan de. : The Study of Religion New York, Harcourt
Brace and World Incp'. 1967,
18. Downs, Frederick, S. : History of Christianity in India
Vol. V. Part 5 Bangalore, The Church
History Association of India, 1992.
19. Baruah, Swarna, Lata : A Comprehensive History of Assam.
New Delhi, 1985.
20. Shah, A.P. : Religion and Society in India.
21. Chandra, Bipin : Communalism in Modern India
New Delhi, Vikas Publishing, 1984.
22. Beeku, Christopher : History of the Catholic Missions in
North-East India. Trans and ed. by
G. Stadler and S. Kuretempel,
Shillong, 1980.
23. Census of India Report : 1991 Sr. P.V. Population by religion.

M. PHIL PROGRAMME
TRIBAL SOCIETIES

The course is intended to offer as an optional course and will introduce the students to the conceptualization problem of tribe in India. The course will also guide the students to an understanding of different dimensions of tribal movement and consequent transformation in India.

1. CONCEPT OF TRIBE

- (a) Sociological meaning of the term 'tribe'
- (b) Politico-administrative meaning of 'tribe'
- (c) Demographic and Cultural Diversity of tribes in India

2. TRIBAL SOCIAL STRUCTURE

- (a) Kinship Structure
- (b) Economic Structure
- (c) Political and Religious Structure

3. TRIBAL MOVEMENT

- (a) Agrarian based movements
- (b) Movement for extension of Frontiers
- (c) Movement for Political and Cultural autonomy

4. TRIBAL TRANSFORMATION

- (a) Social Transformation and Social Change
- (b) Sanskritization and de-tribalization processes
- (c) Problems of adjustment among the tribes in India with special reference to North East India

Readings

- | | |
|--------------------------|---|
| 1. Furer-Haimendorf | Tribes in India
Delhi, Oxford University Press, 1982 |
| 2. Shahlin, Marshall D., | Tribesmen |
| 3. Barpujari, H.K., | Problems of the hill tribes
Gauhati: Basanti Prakash, 1976 |
| 4. Bailey, F.C., | Caste and the Economic Frontier
Manchester University Press 1958 |
| | Tribe, Caste and Nation
Manchester University Press 1960 |
| Sinha, S.C., | Tribal Politics and State systems in
Eastern and North Eastern India
Calcutta: K.P. Bagchi 1987 |
| Brass, Paul | Caste, Tribe and Party Politics in
India Vol I and II
New Delhi: Chanakya 1983 |
| Mandelbaum, D | Society in India |
| Datta-Ray, B., | Social and Economic Profiles of
North East India
Delhi: B.R. Publishing Corp. 1978 |
| Chaube, S.K., | Hill Politics in North East India
Bombay: Orient Longmans 1973 |
| Singh, K.S., | Tribal Movements in India
New Delhi: Manohar 1982 |
| | (ed) Tribal Situation in India
Simla: IIAS |
| Desai, A.R., | Agrarian Struggles in India after
Independence |
| Godelier, Maurice, | 'The concept of tribe' in
Perspectives in Marxist Anthropology
Cambridge University Press |

Miri, M.,

(ed) Continuity and Change in Tribal Society

Simla: Indian Institute of Advanced Study, 1993

Sharma, S.N.,

Ethnic Movements in Contemporary India

Mansario, B.L.,

Sixth Schedule

Hidayatullah, M.,

The Fifth and Sixth Schedules to the Constitution of India

Brass, Paul, R.,

Cauhati: Ashok Publishing House, 1979

Ethnicity and Nationalism

Phandnis, U.,

New Delhi: Sage Publications, 1991

Ethnicity and Nation-Building in South Asia

New Delhi: Sage Publications, 1989

ETHNIC RELATIONS

This optional course is designed for the M.Phil students intending to pursue research in the area of ethnic relations. In Unit I the concept of ethnic group is analytically distinguished with the concepts of race, society, and nation. In Unit II various theoretical approaches will be discussed in the light of their heuristic worth for the study of ethnic groups. In Unit III the focus will be on the aspects of co-existence and interaction of various ethnic groups in polyethnic situations. In Unit IV the concern will be with various theoretical issues of empirical relevance particularly in the context of ethnicity and nationality.

Unit I : Conceptualisation of Human Groups :

- a) Biological Races
- b) Society and Nation
- c) Ethnic Groups

Unit II : Theoretical Approaches to the Study of Ethnic Groups:

- a) Functional
- b) Interactional
- c) Dialectical

Unit III: Polyethnic Situations - Processual Aspects :

- a) Social Organisation of Cultural differences
- b) Acculturation, Assimilation, Adeptation, Prejudice, Stereotype, Discrimination, Apartheid.
- c) Power Relations amongst Ethnic Groups.

Unit IV : Ethnicity and Nationality :

- a) Theoretical Issues (Ethnic self-awareness, Ethnocentrism, tribalism, casteism, classes, nationalism, minority-majority dichotomy, elitism).
- b) Approaches to the study of Nationality, Capitalist Socialist.
- c) Ethnicity and Nationality Issues in India.

5:2:7(17)

READINGS :

1. Amin, Samir : Class and Nation: Historically and in the current crisis, Monthly Review Press, New York.
2. Anthony, H.Ed : Racial Discrimination in Economic Life, Lenington, Mass Health, 1972.
3. Banton, M. : Racial and Ethnic competition, Cambridge University Press, 1983.
4. _____ : Race Relations, London, Tavistock Pub. 1967.
5. Barth, Fredrick (ed) : Ethnic groups and Boundaries Problems Identity and its Maintenance Little Brown Boston, 1969.
6. _____ : Process and form in Social Life, Selected essays Fredick Barth, Vol.I Routledge and Kegan Paul, London, 1981.
7. _____ : Features of Person and Society in Swat Collected essays on patnans Selected essay of Fredick Barth Vol.II Routledge and Kegan Paul, London, Boston and Henley, 1981.
8. Boucher, J. (ed) : Ethnic Conflict : International Perspectives 1987 SAGE Publications, New Delhi.
9. Chauhan, S.S. : Nationalism question in USA, and USSR A Comparative Study, (New Delhi : Sterling 1976).
10. Deka K.M. (ed) : Nationalism and Regionalism in North East India (Dibrugarh University, 1985).
11. Furnivall, J.S. : Netherlands India: A Study of Plural Economy, Cambridge University Press, London, 1939.
12. Glazer, N. and D.P. Moynihar (eds) : Ethnicity, Theory and Experience, Mass : Harvard University Press, 1975.
13. Henry F. (ed) : Ethnicity in America (Only introductory essay).
14. Kuper, Leo (ed) : Race, Science and Society, Unesco Press, London, 1975.
15. Madhur, P.C. : Regionalism in India, From Regionalism in South East Asia. Ed. Rama Kant, Alish Publishers, 1983.
16. Phadnis, U. : Ethnicity and Nation Building in South Asia 1989 SAGE Publications, New Delhi.

17. Brass, Paul R. : Ethnicity and Nationalism : Theory Comparison, New Delhi : SAGE Publications, 1991.
18. Ashley Montagu : The Concept of Race.
19. UNESCO : Statement of Race.
20. Nathan Glazer and D.P. Moynihan (ed) : Theory and Ethnicity.
21. R. Mack : Race, Class and Power.
22. Bronley, Yu. V. : Theoretical Ethnography. Moscow : Nauka Publications, 1984.
23. Nathan Glazer and D.P. Moynihan : Beyond the Melting Pot.
24. Bhattacharjee, J.B. : Social tension in North-East India.
25. IASP-NEHU Seminar : Tribal Demography in India with Special reference in North-East India.
26. Misra, U (ed) : Nation Building and Development in North East India, Guwahati, 1991.
27. Barua. A.K. : Social Tensions in Assam - Middle Class Politics, Guwahati : Purbanchal Prakash, 1991.
28. Kohn, Hans : Nationalism : Its Meaning in History, New York : Van Nostrand & Co., 1965.
29. Krejci, J & V. Velimsky : Ethnic and Political Nations in Europe. London, 1981.
30. Bogina, A. (ed) : Ethnological Processes and National Problems in the Modern World: Moscow, 1979.

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5:2 - Syllabus etc.

(viii) Proposed Syllabus for the Department of Linguistics, NEHU, Shillong.

The Department of Linguistics which was functioning under NEHU at Kohima has now been located in Shillong with effect from 1996, Consequent upon the establishment of the Nagaland University.

The Vice-Chancellor has constituted an Expert Committee consisting of the following members to frame the Syllabus for Linguistics.

- | | | |
|---|---|----------|
| 1. M.S. Sangma,
P.V.C., NEHU, Tura Campus. | - | Chairman |
| 2. Prof. K.V. Subbarao,
Department of Linguistics,
Delhi University, Delhi. | - | Member |
| 3. Head,
Department of Linguistics,
Assam University (Central),
Silchar. | - | Member |
| 4. Head,
Department of Linguistics,
Gauhati University, Guwahati. | - | -do- |
| 5. Prof. E.N. Lall,
Department of English,
NEHU, Shillong. | - | -do- |
| 6. Prof. H.W. Sten,
Department of Khasi,
NEHU, Shillong. | - | -do- |
| 7. Dr. C. Nunthara,
Head, Department of Sociology,
NEHU, Shillong. | - | -do- |
| 8. Dr. S.C. Daniel,
Department of Philosophy,
NEHU, Shillong. | - | -do- |
| 9. Prof. (Ms) J. War,
Head, Department of Linguistics,
NEHU, Shillong. | - | Convener |

The Committee consisting of the following members met on 31.5.96 to frame the Syllabus :

- | | | | |
|-----------------------|---|---|-----------|
| 1. Prof. M.S. Sangma | - | - | Chairman. |
| 2. Prof. E.N. Lall | - | - | Member |
| 3. Dr. C. Nunthara, | - | - | -do- |
| 4. Prof. (Ms) J. War, | - | - | -do- |

The Syllabus framed is placed at Annexure-'A'.

The matter is placed before the Council for consideration.

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Proposed Syllabus for the Department of Linguistics, NEHU, Shillong, for M.A. in Linguistics and P.G. Diploma in Applied Linguistics.

The main objective of the syllabus is to train students in the theory and practice of linguistics both as a core and applied discipline. In the context of North-East India, most of the tribal languages are yet to be described, categorised and developed. It is hoped that students interested in core linguistics will fulfill this need. Those interested in the wide-ranging applications of linguistics will have a choice from the various courses of linguistics in relation to language education, translation, lexicography, literary stylistics, anthropological and cultural studies, artificial intelligence and computer applications, language planning and development etc. The courses will provide an integrated knowledge of the discipline, and career - orientation in various fields.

Lastly, the specific needs of the North-East has been kept in mind.

Course Structure

M.A. First year and P.G. Diploma will share common basic courses (C-1 to C-7), and an optional course (C-8a - C-8 d), M.A. Second Year will continue from C-9 to C - 15 (Compulsory) and an optional (C - 16).

1. (M.A. First Year and P.G. Diploma)
- C - 1. Introduction to Linguistics
 - C - 2. Linguistic Theory and Schools of Linguistics.
 - C - 3. Phonetics and Phonology
 - C - 4. Morphology and Introductory Syntax.

Sem . 2.

- C = 5. Semantics
- C - 6. Sociolinguistics and Sociology of Language.
- C - 7. Psycholinguistics and Language Learning
- C - 8. Optional
- C - 8.a. Language Teaching and Testing
- C - 8.b. Translation Theory and Practice
- C - 8.c. Lexicology and lexicography
- C - 8.d. Linguistics and Literary stylistics.

M.A. 2nd Year

Sem. 3.

- C - 9. Advanced Syntax
- C -10. Historical Comparative Linguistics.
- C -11. South Asia as a Linguistic Area: Special reference to N.E. India and Surrounding Areas.
- C -12. Dialectology

Sem. 4.

- C -13. Trends and Issues in Linguistics
- C -14. Language Planning and Development
- C -15. Basic Research Methodology and Field Work

- 2.3. Syllables and syllabification. Secondary articulation and coarticulation. Suprasegmentals: length, stress, tone, intonation, juncture.
- 2.4. Phonetics US. phonology: History of the concept of phonemes.
- 2.5. Phonetic and Phonemic transcriptions : Principles and practice.
- 2.6. Segmental Phonology : Phone, phoneme and allophone, phonetic similarity, contrast, complementation, free variation;
- 2.7. Feature concept : Concept of distinctive features, bilateral and multilateral, proportional and isolated; Jacobson's binary principles; development of binary features in the 1950s and 1960s; distinctive features of Chomsky and Halle (1968).
- 2.8. Phonological processes: Assimilation, syllable structure processes, weakening and strengthening, neutralization.
- 2.9. Phonological rules and rule ordering.

C-4 Morphology and Introductory Syntax

- 3.1. Morphology: Scope and nature; concept of morpheme, morph, allomorph. Word US morpheme.
- 3.2. Identification and isolation of morphemes; principles and problems; Types of morphemes determined by structure and distribution ; root, stem, affix , word, compound word and idiom.
- 3.3. Morphological constructions : inflection, derivation and compounding.
- 3.4. Morphological processes and morphological alternations : Internal and external sandhi.
- 3.5. Basic components of Transformational generative grammar : Base (P.S. Re-writing Rules, Lexicon), Transformational and semantic components, syntactic and lexical categories.
- 3.6. Transformational Rules : Formulations and justification of T.Rules. Types of Transformational operations.
- 3.7. Conditions on Transformations : Chomsky's & Ross on transformation conditions.
- 3.8. Basic syntactic analysis (Passive, Relativization, Reflexivization, Affix-hopping , Conjunction reduction, Negation, Interrogation.

C - 5 Semantics

- 4.1. Theories of Meaning: Behaviourists, logical and field semantics. Meaning and reference , meaning and use, meaning and truth, meaning and cognition.

- 4.2. World and meaning :Sense relations: Synonymy, polysemy, homonymy, hyponymy, antonymy, incompatibility, relational opposites, converseness. Componential analysis.
- 4.3. Semantic structure of sentences : Relation between syntax and semantics in T.G. grammars, deep structure and semantic representation, underlying structure and logical relations, truth conditional semantics and natural language, presupposition and entailment.
- 4.4. Speech Act Semantics : Illocution and perlocution, speech act theory, direct and indirect speech act, illocutionary force and semantic structure.
- 4.5. Pragmatics and Semantics : Situational context, politeness principle and cultural semantics, cooperative principle and Grice's theory of conversational implicature, scope of pragmatic in semantics.

Semester - II

C-6 Sociolinguistics and Sociology of Language

- 5.1. Language and Society : Speech community, verbal repertoire; linguistic competence and communicative competence ; linguistic variability; linguistic and social variables; ethnography of speaking, sociology of language.
- 5.2. Linguistic Variation and Language Varieties : Notion of heterogeneity and variability; dialects, registers, formal and non-formal, standard and non-standard, colloquial and non-colloquial varieties; sociolinguistic variables, variable rules; restricted and elaborated codes.
- 5.3. Languages in Contact: Bilingualism, types of bilingualism - national and institutional, societal and isolated, stable and unstable ; types of bilinguals : coordinate, compound, incipient, productive and receptive, diglossia; code-mixing and code switching; borrowing and mixing ; pidgins and creoles , language maintenance and language shift.
- 5.4. Language and Social identity : Concept of linguistic and social inequality; linguistic prejudices and stereotypes; attitude analysis; deficit theory, semantics of power and solidarity.
- 5.5. Sociology of Language : Language planning; language standardization and modernization; orthographic reform and literacy; script planning and modification; national language (s) and languages of wider communication;

C - 7 Psycholinguistic and Language Learning

- 7.1. Approaches to the study of languages : Behaviouristic and Mentalistic models; Cognitive and Interactionist approaches; Language and Cognition; Cognitive Development Theory (Piaget).

- 7.1. **Developmental Psycholinguistics** : The concept of language acquisition and development, language acquisition device; the 'critical period' controversy; cognitive basis of language development; acquisition of phonology, lexical items, grammatical categories and inflections.
- 7.2. **Factors in Language Acquisition** : aptitude, attitude, motivation; learning and cognitive strategies; cognitive processing of linguistic input (filter, or ganizer, monitor), input and intake; uniformity VS variability in language development; Interlanguage and learner's language.
- 7.3. **Perception, Comprehensions and Production: Speech Production**: theory and models, perceptual strategies; speech comprehension and production; encoding and performance measures; speech error and its implications.
- 7.4. **Language and Thought** : Universals and relativity; perceptual, cognitive and social categories.

8 - 8.4. Language Teaching and Testing

- 8.1.a. **Linguistics and Language Teaching** : Linguistic theory and language teaching; concepts of universal, language specific, pedagogic and polylectal grammars.
- 8.2.b. **Approaches and Methods in Language Teaching** : Traditional Grammar - Translation method, Direct method, Audio-lingual method, Bilingual method, Communicative and Communicational approaches (situational, notional-functional, procedural, natural).
- 8.3.a. **Language Teaching Analysis** : factors in language learner ; learner, aims and objectives, materials, methods, facilitator-instructor; curriculum, course design, types of syllabus (grammatical, situational, notional-functional and task-based). Principles of syllabus design.
- 8.4.a. **Error Analysis, Contrastive Analysis, and Needs Analysis** - A brief survey interference, intralingual and developmental errors.
- 8.5.a. **Language Testing** : Types of tests (aptitude, proficiency, diagnostic, achievement, placement). Modes of testing (discrete VS integrative, objective VS subjective, pragmatic and communicative tests. Criteria for tests (reliability, validity, economy, practicality).

9 - 9.4. Translation Theory and Practice.

- 9.1.a. **Linguistic Theory and Translation** : Linguistic sign; opposition between form, content and translation; monist and dualist view of translation; intra-lingual, inter-lingual and inter-semiotic translation; communication theory and translation; equivalent - effect theory.

- 8.2.b. **Types of Translation: Test-oriented US. reader - oriented; literal US. free translation; total US. restricted translation; semantic US. communicative translation; scientific and technical translation; interpretation, transcreation.**
- 8.3.b. **Important Concepts : Substitution , naturalization , paraphrasing; overtranslation, undertranslation, loss of meaning. Translation of proper names , institutional, socio-cultural and scientific terms.**
- 8.4.b. **Four Criteria for Analyzing a Translatable Text and Text Categories: Text and varieties of general meaning - lexical US grammatical meaning and componential analysis . Evaluation procedures.**
- 8.5.b. **Basic Translation Procedures : Types of neologisms. Interpretive US. Objective translation.**
- 8.6.b. **Problems of Translation : Linguistic intranslatability, cultural incompatibility.**

C - 8.c. Lexicology and Lexicography

- 8.1.c. **Linguistic and Lexicography : Lexicon and grammar; lexeme and word; vocable and term; item and system; theoretical dictionary (lexical) and practical dictionary.**
- 8.2.c. **Structure and Function of Lexemes : Simple and composite; set and free; set combinations : collocative, derivative, compounds, pro-verbs and idioms; variation dialectal, sociolectal meaning ; lexical US. grammatical, derivative US. connotative, collocational US. contextual; form-meaning relationship - polysemy, homonymy, synonymy, antonymy, hyponymy.**
- 8.3.c. **Dictionary - Types : Synchronic & diachronic, monolingual & bilingual, restricted & non-restricted; thesaurus, learner's dictionary and encyclopaedia . Dialectal dictionaries : Principles, dialect, sociolect, context.**
- 8.4.c. **Selection and Management of Entries : Labelling and encoding of grammatical information ; sequence, notation and format; abbreviations. Problems of spelling and pronunciation; description and definition ; reference , cross-reference and sub-entries.**
- 8.5.c. **Making of a Dictionary and Collection of Material: factors and variables . Preparing dictionaries of unwritten languages / dialects.**
- 8.6.c. **Automatic data processing; computers in dictionary-making.**

C - 8.d. Linguistic and Literary Stylistics.

- 8.1.d. **Semiotics, aesthetics, poetics, rhetorics and linguistics.**

- 8.2.d. **Stylistics** - scope, definition; stylistics and literary criticism. **Lingua-aesthetic and semio-linguistic approach to verbal art;**
- 8.3.d. **Structuralism and post- structuralism.**
- 8.4.d. **Linguistic Function and Style** : Language variation and style ; speech acts; discursive US. expressive language ; poetic language, poetical language and language in literature; linguistic function : Bühler, Jakobson, Langer, Halliday; transformations and style, style as a quality of texts; linguistic functions and literary genre; overt and covert style.
- 8.5.d. **Concept and Tools of Analysis** : Code and message; redundancy and information: sample & norm; discourse text; fore-grounding & interpretation; parallelism & verbal repetition, deviation, semi-sentence and poetic license; principles of equivalence, selection & castiguity; coupling; analogy; stylostatistics.
- 8.6.d. **Levels of Textual Organization** : Structure and texture; textual structure, information structure and cohesion; sentence symbols symbols in art and art symbol; thematic object and aesthetic object.

M.A. 2nd Year

Sem. III

C - 9. Advanced Syntax.

- 9.1. **Systematic Study of Syntactic Modularity:** Bounding , binding, case, x-bar, theta, control, government, proper government; what goes into the modules and where they apply. Various options explored in the parametric tradition. Barriers.
- 9.2. **Substantive principles and design principles;** the development of design principles in parametric syntax, full interpretation, movement as last resort, relativized minimality, economy of derivation. The minimalist model and its descriptive presuppositions.
- 9.3. **The Role and Organization of the Lexicon in Grammar** : The issues involved lexicalis & US. generative approach , the rise and fall in the number of transformations .
- 9.4. **Grammatical Categories** : Discrete US. non-discrete, categorical features in GB and their problems.

C - 10 Historical and Comparative Linguistics

- 10.1. **Theory of Language Change:** The neogrammarians; neolinguists and allusions to lexical diffusion . Sound change & Generativists. Types and causes of language change; sound change and phonemic change, merger and split.
- 10.2. **Analogy and Borrowing** : Lexical and structural borrowing; different types of borrowing-cultural, intimate and dialect; loan words and their classification.

- 10.3. **Phonological reconstruction** ; internal reconstruction; split leading to morphophonemic alternations; recovering, alternating and non-alternating sets of forms; interplay of analogy & alternation.
- 10.4. **Comparative method and phonological reconstruction** - cognates, phonological correspondence, accounting for exceptions; reconstruction of proto-language based on contrast and complementation; recovering conditioned and unconditioned change ; status of reconstructed forms-homogeneity US-dialect variation in proto-language .
- 10.5. **Morphological reconstruction and semantic change.**

C - 11. South Asia as a Linguistic Area (special reference)
 to NE India and related Tibeto-Burma and Austro-Asiatic languages in South Asia).

- 11.1. **Language Families of South Asia** : Distribution, characteristics, enumeration, area features and convergence processes.
- 11.2. **South Asia as a Linguistic Area** : empirical basis concept of a linguistic area ; linguistic change , borrowing , convergence. Diffusion area US .linguistic area.
- 11.3. **India as a Linguistic Area** : Language families of India. Geographical locations of Indo-Aryan, Dravidian, Tibeto-Burman and Austro-Asiatic languages.
- 11.4. **Feature Characteristics of a Linguistic Area**: retroflexion, reduplication , onomatopoeia , echo words , quotative constructions, dative subjects, ergativity, conjunctive participle, constructions.
- 11.5. **North - East India**: Geographical locations of different languages and dialects. Similarities and differences within TB and AA families.

C - 12 Dialectology:

- 12.1. **Issues / Concepts** : Language US . dialect; dialects: standard & non-standard, regional & social (class and caste). Dialectalization & standardization. Lexical, morphological, phonological & syntactic differences in dialects.
- 12.2. **Traditional approaches to dialectology**- basic assumptions & limitations.
- 12.3. **Structural dialectology.**
- 12.4. **Dialect Geography & Principles of preparing a Dialect Atlas**: Questionnaire, informants, localities, data; isogloss maps; dialect & sub-dialect areas; correlating political and cultural historical with regional and social dialects.
- 12.5. **Recent Approaches in Dialectology**: Generative dialectology.

Semester 4

L - 13 Trends and Issues in Linguistics.

- 13.1. Language Universals : formal, substantive, implicational; parameters & markedness principles. The role of universals in linguistics theory : Universal grammar and particular grammars: description & explanation.
- 13.2. Linguistic Typology as a Principle of Classification: analytic (isolating) VS synthetic ; agglutinating VS fusional (inflectional) VS polysynthetic.
- 13.3. Computational Linguistics : Definition, scope, aim and objectives computational linguistics & its interdisciplinary links.
- 13.4. Definition of natural language processing (NLP). Goals of natural language modelling.
- 13.5. Computational descriptions of linguistic models in morphology, phonology, syntax, semantics, pragmatics and of lexicons—some important issues.
- 13.6. Computational linguistics / NLP as a subdiscipline in Artificial Intelligence.

C - 14. Language Planning and Development (with special reference to NE India).

- 14.1. Nature and Scope : Sociology of Language : applied VS normative; social change & social planning; basic premises of language planning.
- 14.2. Variables and Planning : Planning sensitive variables; types of variables ; organizational , altitudinal , demographic & implementation.
- 14.3. Problems & Processes (General): Major types of language planning; selection/policy decision; stability/codification; expansion/elaboration; differentiation/cultivation.
- 14.4. Processes specific to India and the NE: Code selection: national/official, regional, local; codification; language standardization and writing reform ; elaboration ; modernization of languages; cultivation ; development and promotion of language, dialects, styles and registers; language policy in education.
- 14.5. Types and Treatment : Language conflict, language identity, language shift, language maintenance.

C - 15 Basic Research Methodology and Field Work

This course is meant for practical field work to prepare students for research in linguistics. Students are required to submit a short dissertation for evaluation.

C - 16 Structure of /Introduction to Tibeto-Burman Languages or Austro-Asiatic Languages

- 16.1. Phonology : Inventory of phonemes, vowels, semivowels, consonants & their combinations, phonofactics, syllabilifications. Sandhi : automatic/non automatic alternations.
- 16.2. Inflectional Morphology : Nouns, Pronouns: Classification: Plural formation, oblique stem formation; case; numerals, ordinate, inordinate ; adjectives and adverbs. Verbs: stem formation; Tense, aspect and mode markings; Participles; Compound verbs; Adverbs and clitics.
- 16.3. Derivational Morphology : Types of derivation; compounding.
- 16.4. Syntax : internal structure of the sentence; word order pattern; syntactic categories; NP, UP; post positions, post positional phrases. Sentence types. Interrogatives. Negatives. Imperatives Relativization. Reflexivity. Passives. Subordinate clauses. Coordinations . Sentence structures expressing reciprocity, comparison, possession.

C - 16 Anthropological Linguistics.

- 16.1.b. Scope of Anthropological Linguistics - Relationships with anthropology of language , sociolinguistics and ethnolinguistics. Linguistics and cultural anthropology : the role of language in cultural studies.
- 16.2.b. Language and Culture : Cultural setting, situational settings; the Sapir - Whorf hypothesis ; ethnography of communication; emic and etic levels of behaviour ; Linguistic analysis of kinship terms and colour terms.
- 16.3.b. Language and Society : Linguistic variation in society; social stratification (Labov); concepts of language, dialects (regional, class, caste); linguistic and social inequality; inter-group and intra-group communication; semantics of power and solidarity, ethnicity and identity.
- 16.4.b. Theories of Meaning and Culture : Malinowsky and Firth's contextual Theory of meaning ; semantic Field Theory; Cultural semantics ; politeness principle, cooperative principle and Grice's theory of conversational implicature

C -2 Linguistic Theory and Schools of Linguistics

- 2.1. Traditional Approach : Basic Assumptions, classical basis, Merits and Limitations.
- 2.2. Tagmemic Grammar: Tagmeme, Slot, Filler, Class. Role of Cohesion, Syntagmeme, Domains Constancy and Variability, Tagmemics and Translation.
- 2.3. Prague School of Linguistics, Functions of Language: Expressive, appeal and representative Theme and Rheme, Automization, Aesthetic function and de-automization . Standard & folk speech.
- 2.4. American Structuralism : Immediate and Ultimate constituents, various forms of IC analysis, basic assumptions and limitations.
- 2.5. Systemic Grammars : categories, Units, Structures, Class and System, Scales of Obstructions , Rank, Exponence; delicacy, choice and chain relations, Functions, Types. Given & New, Theme and Rheme.
- 2.6. Firth's Contextual Theory of Meaning.
- 2.7. Transformational -Generative Grammars :Goals, Phrase Structure Grammars, Deep & Surface Strures, Transformations.

SUGGESTED READING FOR LINGUISTICS

C.1 INTRODUCTION TO LINGUISTICS

- Akmajian, A., R.A. Demers and R.L. Harnish, 1984, Linguistics: An Introduction to Language and Communications Cambridge, Mass : The MIT Press (2nd Revised Edn.)
- Bolinger, D. 1975 Aspects of Language, New York : Harcourt Brace Jovanovich (2nd ed.)
- Frankin, U and R. Rodman, 1974, An Introduction to Language, New York: Holt, Rinehart and Winston.
- Hockett, C.F, 1958 A course in Modern Linguistics, New York: Macmillan
- Langaker, R.W. 1968, Language and Its Structure, New York : Harcourt, Brace and World.
- 1972 Fundamentals of Linguistic Analysis, New York : Harcourt Brace Jovanovich.
- Lyons, J. 1969, Introduction to Theoretical Linguistics, CUP
- 1981 Language and Linguistics, CUP
- Robins, R.H. General Linguistics : An Introductory Survey Longman.
- Sapir, E. 1949 Language, New York : Harcourt Brace and World.
- Saussure, F. 1966 A Course in General Linguistics, New York : McGraw Hill
- Smith, N.U. and D. Wilson, 1979, Modern Linguistics. The Result of Chomskyan Revolution, Hammonds worth : Penguin
- Wallwork, J.F. Language and Linguistics : An Introduction to the Study of Language, Heinemann Education Books.

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C.2 LINGUISTIC THEORY AND SCHOOLS OF LINGUISTICS

- Baker, C.L. 1979 Introduction to Generative- Transformational syntax Eaglewood Cliffs No.5 : Prentice Hall
- Bloomfield 1933, Language, New York : Holt, Rinehart & Winston
- Chomsky, N. 1957, Syntactic Structures, The Hague, Mouton
- Dineen, F.P. 1967, An Introduction to General Linguistics Holt, Rinehart & Winston, New York
- Krishnaswamy, N; 1971, An Introduction to Linguistics for Language Teachers, Somaiya Publications, Bombay
- Lyons, J; 1970, Chomsky, Fontana, London,
- Martinet, A, 1962, A Functional View of Language, Oxford: Clarendon Press.
- Sapir, E, 1949, Language, New York, Harcourt Brace and World.
- Verma, S.K. and N. Krishnaswamy, 1989, Modern Linguistics, OUP

C.3 PHONETICS AND PHONOLOGY

- Abercrombie, D. 1967, Elements of General Phonetics, Edinburgh University Press.
- Anderson, S.R. 1974, The Organisation of Phonology. New York Academic Press.
- Arnold, J.F. and O.M. Tooby 1970 Say it with Rhythm Book I Longman, London.
- Baltaxe, C.A. 1978, Foundations of Distinctive Feature Theory, Baltimore, University Park Press.
- Bansal, R.K. 1971, An Outline of General Phonetics, OUP Bombay, Rep 1977.
- and J.B. Harrøson, 1972 Spoken English for India : A Manual of Speech and Phonetics Orient Longman, Madras, Rep. 1976.
- Bloch, B and G.L. Trager 1950, Outline of Linguistics Analysis Baltimore : Linguistic Society of America
- Catford, J.C. 1977, Fundamental Problems in Phonetics, Edinburgh Univ. Press.
- Foley, J 1977 Foundations of Theoretical Phonology, OUP
- Fudge, E (ed.) 1973 Phonology Harmondsworth : Penguin.
- Harris, L.M. 1975, Phonology : Theory and Analysis, New York, Holt Rinehart and Winston.
- Kenstowicz, M and C. Kisseherth 1979, Generative Phonology : Description and Theory, New York, Academic Press
- Ladefoged, P. 1975, A Course in Phonetics, New York : Harcourt Brace Jovanovich.
- Malnberg, B. 1983, Phonetics, London, Penguin.
- O'Connor, J.D. 1973, Phonetics, London, Penguin
- Pike, K.L. 1947, Phonemics, Ann Arbor, The Univ. of Michigan Press
- Schane, S.A. 1973, Generative Phonology, Englewood Cliffs, N.J. Prentice Hall.
- Stampe, D. 1979, Natural Phonology, New York: Garland, Publishers

C. 4 MORPHOLOGY AND INTRODUCTORY SYNTAX

- Aronoff, M. 1976. Word Formation in Generative Grammar
Cambridge, Mass : MIT Press
- - 'Morphology by Itself : Stems and Inflected Clauses
Cambridge, Mass MIT Press.
- Bauer, L. 1983. English Word Formation CUP
- Bresnan, J (ed) 1982. The Mental Representation of Grammatical Relations, Cambridge, Mass : MIT Press.
- Chomsky, N. 1965 Aspects in the Theory of Syntax
- Hamp, E.P., F.W. Householder and R. Austerlitz (eds.) 1966.
Readings in Linguistics, Vol. I, Chicago Univ. Press.
- Matthews, P.H., 1974, Morphology, CUP
- Nida, E. 1949, Morphology, Ann Arbor : Univ. of Michigan (1973 ed.)
(Relevant chapters in books for C-1 and C-2).

C-5 Semantics

- Austin, J.A. 1962, How to do things with words OUP
- Fodor, J. 1977, Semantics : Theories of Meaning in Generative Grammar, New York : Thomas Y, Crowell.
- Harford, J.D. and B. Heasley, 1983, semantics : A coursebook CUP
- Jakendoff R, 1972, Semantic Interpretation in Generative Grammar, Cambridge, Mass : MIT Press
1983, Semantics and Cognition, Cambridge,
MIT Press.
- Kempson, R.M. 1977 Semantic Theory, C.U.P.
- Kunjunni Raja, K. 1963 Indian Theories of Meaning. Adjar
Madras : Theosophical Press
- Leech, G. 1981 Semantics. Harmondsworth. Penguin.
- Lehrer, A and K. Lehrer (eds.) 1970. Theory of Meaning
Englewood - Cliff, N.J. : Prentice Hall.
- Levinson, S.C. 1983. Pragmatics, CUP
- Lyans, J. 1977 Semantics Vol. I & 2 CUP
- 1981 Language, Meaning and Context. London, Fontana.
- McCawley, J.D. 1981. Everything that Linguists have Always Wanted to know about Logic. Univ. of Chicago Press
- Palmer, F.R. 1982 Semantics, CUP (2nd ed.)
- Searle, J. 1969 Speech Acts CUP
- F. Kiefer and M. Bierwisch (eds.) 1980
Speech Act Theory and Pragmatics Dordrecht : D. Reidel
Publishing Co.
- Steinberg, D.D. and L.A. Jakobovits (eds.) 1971, Semantics CUP

C-6 SOCIOLINGUISTICS AND THE SOCIOLOGY OF LANGUAGE

- Fasold, R. 1984. The Sociolinguistics of Society, Oxford : Basic Blackwell
- Fishman, J.A. (ed) 1968 Readings in the sociology of Language
The Hague, Mouten.
- (ed.) 1978 Advances in the Study of Societal Multilingualism.
The Hague. Mouten.
- C.A. Ferguson and J. Das Gupta (eds.) 1962.
Language Problems of Developing Nations. New York: Wiley
- Giglioli, P.P. (ed.) 1972 Language and Social Context:
Harmondsworth, Penguin.
- Camperz, J.J. and D. Hymes, 1977. Directions in Sociolinguistics, New York
Holt, Rinehart & Winston.
- Hudson, R.A. 1979 Sociolinguistics, CUP
- Hymes, D. 1971, Pidginization and Creolization of Languages, CUP
- 1974 Foundations of Sociolinguistics : An Ethnographic Approach.
Univ. of Pennsylvania Press.
- Lebou, W. 1972 Sociolinguistic Patterns, Univ. of Pennsylvania Press.
- Pride, J.B. and J. Holmes (ed.) 1972. Sociolinguistics. Harmondsworth :
Penguin.
- Trudgill, P. 1983 Sociolinguistics. Harmondsworth : Penguin (rev. 2nd ed.)

C-7 PSYCHOLINGUISTICS AND LANGUAGE LEARNING.

- Aronson, D. and R.W. Rieber, 1979 Psycholinguistic Research :
Implications and Applications, New Jersey : Laurence Erlbaum
Associates.
- Aitchinson, J; 1983. The Articulate Mammal.
London : Hutchinson (2nd ed.).
- Cairns, H.S. and C.E. Cairns; 1976, Psycholinguistics : A Cognitive View
of Language., Holt, Rinehart and Winston.
- Clark, H.H. and Eve V. Clark, 1977; Psychology and Language, New York :
Harcourt Brace Jovanovich.
- Huxley, R and E. Ingram (1st ed.) 1971; Language Acquisition : a Book of
Readings, Rowley, Newbury House.
- Kess, J. 1976; Psycholinguistics : Introductory Perspectives. Academic Press,
New York.
- Richie, W (ed.) 1978. Second Language Acquisition Research : Issues and
Implications : New York Academic Press.
- Schumann, J.H. and N. Stenson (eds.) 1974, New Frontiers in Second Language
Learning, Rowley, Newbury House.
- Slokin, D.I. (ed.) 1981. The Ontogenesis of Grammar, New York Academic
Press.
- Steinberg, D.D. 1982. Psycholinguistics : Language, Mind and World.
Longman.

C6

C-8 (a) LANGUAGE TEACHING AND TESTING

- Alatis, J.E., H.B. Allen and F.M. Alatis (eds.) 1981, The Second Language Classroom : Directions for the 1980s OUP.
- Allen, J.P.B. and S.P. Corder (eds.) 1973-76, Edinburgh Course in Applied Linguistics, Vols. 1-4, London OUP
- Brumfit, C (1980) Problems and Principles in English Teaching.
- and K. Johnson (eds.) 1979. The Communicative Approach to Language teaching.
- George, H.V. 1972 Common Errors in Language Learning: Insights from English, Newbury House.
- Fisiak, J (ed.) 1981 Contrastive Linguistics and the language Teacher. Oxford, Pergamon Press.
- Halliday, M.A.K. 1975. Learning How to Mean - Explorations in the Development of Language, London, Edward Arnold.
- Howatt, A.P.P. 1984. A History of English Language Teaching.
- Jacobovits, L.A. 1970. Foreign Language Learning : A Psycholinguistic Analysis of the Issues, Rowley, Mass : Newbury House.
- Jones, R and P. Spolsky (ed.) 1975. Testing language Proficiency. Georgetown : Center for Applied Linguistics.
- Krashen, B. 1981. Second Language Acquisition and Second Language Learning Pergamon Press, Oxford.
- Mackey, W.F. 1965. Language Teaching Analysis, Indiana Univ. Press.
- McKay, S.L. 1985 Teaching Grammar : Form, Function and Technique, New York, Pergamon Press.
- Ministry of Education, Govt. of India, 1967, 1969 ,
Study Group Reports.
- 1971, Report of the Study Group on Teaching of English.
- Munby J. 1978, Communicative Syllabus Design, OUP
- Nickel, G (ed.) 1978 Contrastive Linguistics, Stuttgart: A.I.L.A. and Hofhsschul Verlag.
- (ed.) 1978. Error Analysis, Stuttgart.
- Oller, J.W. 1979, Language Tests at School, Longman, London.
- and J.C. Richards (eds.) 1973. Focus on the Learner : Pragmatic Perspective for the Language Teacher, Rowley, Mass : Newbury.
- Richards, J.C. (ed.) 1974. Error Analysis : Perspectives on Second Language Acquisition, London.
- Rivers, W.M. 1968, Teaching Foreign Language Skills, Univ. of Chicago Press.
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- 16.1 b. Scope of anthropological Linguistics - relationships with anthropology of language, sociolinguistics and ethnolinguistics. Linguistics and cultural anthropology: the role of language in cultural studies.
- 16.2 b. Language and culture : The Sapir (1957, 1969) Papers in Linguistics OUP. Whorf Theory; Cultural setting; Ethnography of Communication; Emic and etic levels of behaviour; analysis of kinship terms.
- 16.3 b. Language and Society : Social stratification; linguistic variation in Society; language, dialects (regional, class, caste). Linguistic and social inequality, semantics of power and solidarity, ethnicity, and identity, intra and inter-group communication.

5:3:- RESEARCH

- (i) Minutes of the meeting of the Sub-Committee to frame Regulation on the conduct of Pre-Submission Seminar and also the regulation on preparation of M.Phil/Ph.D.thesis,

The Academic Council in its 51st meeting held on 2 and 3 November, 1995 vide resolution No.:AC:51:95:5:3:(i) resolved that a Committee consisting of the following may examine the regulation on the conduct of the Pre-Submission Seminar and also the regulation on preparation of M.Phil/Ph.D. thesis :

- | | | |
|---------------------|---|----------|
| 1. Prof. A.C.Sinha | - | Chairman |
| 2. Prof. N.Hassan | - | Member |
| 3. Prof. S.S. Khare | - | -do- |
| 4. Prof. S.N.Bhat | - | -do- |
| 5. Prof. R.K. Rai | - | -do- |
| 6. Prof. A.N. Rai | - | -do- |
| 7. Prof. S.K.Mishra | - | -do- |

The minutes of the meeting is placed at Annexure - 'A'

The matter is placed before the Council for consideration.

Minutes of the Meeting of the Draft Regulation on the conduct of the Pre-Submission Seminar held on 4th and 19th April, 1996.

Members Present :-

1. Prof A.C. Sinha (Chairman)
2. Prof S.K. Mishra, Deptt. of Economics
3. Prof R.K. Rai, Deptt. of Geography
4. Prof S.N. Bhat, Deptt. of Chemistry.

The Committee held two meetings on April 4th & 19th, 1996 in the Office of the undersigned and recommended the following Draft Regulation on the conduct of the Pre-Submission Seminar.

Revised Ordinances on the Doctor of Philosophy programme and the Master of Philosophy Programme (U/S 26(1) (b) of the NEHU Act 1973) under clause 7 and clause 9 respectively provide for holding of Pre-Submission Seminars by candidates pursuing studies under the two respective programmes.

The operative parts under the provisions require explicit Rules and Regulations for the sake of uniform application of these clauses. The following suggestions are in order in this regard :

1. The phrases 'the final stage of completion of the thesis' and 'well in advance' should be read as :-
 - a) at least 2 months before these submission of a Ph.D. dissertation; and
 - b) at least 1 month before the submission of M.Phil dissertation.
2. (i) The Committee in whose presence the seminar shall be given should be addressed as the Evaluation Committee.
 - (ii) The Evaluation Committee (referred as the Committee hereafter) consisting of three members related to the specialization of research should be constituted as follow :
 - a) Supervisor of the candidate as the convener of the Committee and the Chairman of the Seminar :
 - b) One faculty member from the department as the nominee of the Head where the candidate is registered:
 - c) One faculty member nominated by the Dean from allied department in the School.

Explanation: The faculty member mentioned in (b) and (c) shall be recognised supervisors of the University.

- iii) The committee shall be constituted and notified by the Dean of the school.
- iv) After the notification of the Committee the supervisor shall fix the date and time of the seminar through mutual consent of the other two members.
- v) The supervisor shall issue the notice of the seminar.
- vi) The Seminar shall be public and open to all the faculty members and students of the departments in the School concerned.
- vii) The Seminar presentation shall be open to public debate only after the Committee has made its recommendations.

Explanation: No member of the public shall be permitted to participate in the discussion during the course of evaluation unless when the Committee members feel the necessity of inviting the comments by way of clarification from any particular member of the public to assist them in their work on some specific issue arising from the presentation of the candidate.

- viii) The unanimous recommendations shall be clearly and specifically recorded on a standard format in triplicate and shall be duly signed on each proforma by each member of the Committee.
- xi) Two copies of the report shall be forwarded to the Dean through the Head of the Department while one copy of the report shall be kept in the records of the Departmental Research Committee. The Dean shall forward one copy of the report to the concerned section of the University while one copy shall be retained for the record of the School Board.

3. In corporation of the Recommendation of the Committee in the thesis : In case where the Committee suggests any modifications in the thesis (which shall, of course, not be by way of modifications in the finally registered title of the thesis) then the candidate is required to incorporate these modifications suitably in the thesis and submit a certificate

5:3:(4)

-/ 3 /-

to this effect to the Dean before he/she is permitted to submit the thesis for examination. However, if the candidate is unwilling to incorporate the suggested modifications then the candidate should submit through the supervisor a justification in writing to the Dean giving sound academic/intellectual argument in support of this unwillingness.

5:3:1(5)

The North-Eastern Hill University

Month & Year

('NEHU emblem should not be used anywhere on the thesis)

I _____, hereby declare that the subject matter of this thesis is the record of work done by me, that the contents of this thesis did not form basis of the award of any previous degree to me or to the best of my knowledge to anybody else, and that the thesis has not been submitted by me for any research degree in any other University/Institute.

This is being submitted to the North-Eastern Hill University for the _____ degree of Master of Philosophy/Doctor of Philosophy in _____ (Name of the Discipline)

(Candidate)

(Head)

(Supervisor)

REGULATION FOR PREPARATION OF M.PHIL/PH.D. THESIS

1. Thesis should be type-written on one side of good quality quarto size paper in double space with 4 cms margin on the left side of the page and top of the page : and 2.5 cms, margin on the right side of the page and bottom of the page.
2. Suitable reproduction of Indian-ink diagrams should be used. Photographs computer output should be suitably mounted on the same quality paper as the thesis.
3. References made in the text should be indicated at the bottom or at the of the same page in single space or at the end of each chapter or at the end of the dissertation.
4. Tables with running numbers should be inserted in the text or at the end of each chapter.
5. Standard noting, footnoting, bibliography styles should be followed.
6. Three copies of the thesis in hard cover, preferably black be submitted.
7. Three copies of the Abstract of the thesis should also be submitted separately.
8. The cover should have the following printed in it in block letters :
 - a) Thesis Title at the top
 - b) Candidate's Name in the middle and
 - c) Name of the Department and North-Eastern Hill University at the bottom.
9. The following should be printed on the spine of the thesis
 - a) The year of submission at the top
 - b) The Candidate's last name in the middle and
 - c) M.Phil/Ph.D at the bottom.
10. The contents of the thesis should have the following forms:
 - i) Inner Cover Page
 - ii) Candidate's declaration countersigned by the supervisor and the Head (Specimen enclosed)
 - iii) Acknowledgements
 - iv) Table of Contents
 - v) List of figures
 - vi) Body of the Thesis
 - vii) Appendices
 - viii) Bibliography and
 - ix) Brief Bio-Date of the Candidate
11. The inner cover page should read as follows:

TITLE OF THESIS

BY

Name of Candidate

_____ Department
submitted

in partial fulfilment of the requirement of the Degree of Master of Philosophy/Doctor of Philosophy in _____ name of the subject of North Eastern Hill University, Shillong.

REPORT OF EVALUATION COMMITTEE

1. Name of Candidate :
2. Degree : M.Phil/Ph.D.
3. Department :
4. Name of the Supervisor :
5. Date of the Pre-Submission Seminar:
6. Title of the Dissertation :
7. Scope & Methodology of the Satisfactory/Not Satisfactory Study
8. Quality of data used and its analysis : Satisfactory/Not Satisfactory
9. Comprehension of the Central Theme and its appreciation in the larger form of the discipline : Adequate/Inadequate
10. Methodological innovation :
if any : If Yes, use a separate sheet
11. Suggestions for Modification,
if any, if Yes, use a separate sheet.
12. Recommendation(tick mark one) : 1. Recommended for Submission
2. Recommended for Submission with suggestions for modification
3. Not recommended.
13. Signature of the Members of the Evaluation :

(Convener)
Name

(Member)
Name

(Member)
Name

5:3:1(8)

NORTH-EASTERN HILL UNIVERSITY
SCHOOL OF SOCIAL SCIENCES

PARTICULARS OF THE CANDIDATE

NAME OF CANDIDATE :
DEGREE ::
DEPARTMENT :

FOR M.PHIL CANDIDATES

TITLE OF DISSERTATION :
DATE OF PAYMENT OF ADMISSION:
(Commencement of First Sem)

COMMENCEMENT OF SECOND SEM/DISSERTATION:
(From conclusion of end semester exams)

APPROVAL OF RESEARCH PROPOSAL :
1. BPGS :
2. SCHOOL BOARD :
REGISTRATION NO.& DATE :
DUE DATE OF SUBMISSION :
EXTENSION (IF ANY) :

FOR PH.D. CANDIDATE

TITLE OF DISSERTATION :
DATE OF PAYMENT OF ADMISSION :
APPROVAL OF RESEARCH PROPOSAL :
1. BPGS :
2. SCHOOL BOARD :
REGISTRATION NO. & DATE :
DUE DATE OF SUBMISSION :
EXTENSION IF ANY :

Head
Department of _____

5:6 - Establishment of new Deptts./Centres/Courses-

(iii) Location of the Post-graduate Department in Mizo.

The Academic Council would recall that the syllabi for post-graduate courses in Mizo had already been approved by the AC and EC. The post-graduate courses could not be conducted for non-availability of financial allocation during the VIII Plan Period. The same is being placed in the IX Plan document. Meanwhile, there has been a demand from the students as well as teachers of the Pachhunga University College and the Mizoram Government for the establishment of the post-graduate department in Mizo in the Pachhunga University College. An interim reply dated May 1, 1996 to the State Government is enclosed as Annexure A and the copies of correspondences from the UGC dated 18th March, 1996 and the Ministry dated 4th March, 1996 are enclosed as Annexures B and C.

The matter is placed to the AC to consider whether the post-graduate department in Mizo be located in the Pachhunga University College or in the Mizoram Campus (along with other post-graduate departments).

5:6:3:(2)

C O P Y

ANNEXURE A

PROF. B. Pakem
Vice-Chancellor

North-Eastern Hill University
P.O. NEHU Campus, Mawkynroh-Umshing,
Shillong - 793022, Meghalaya.

D.O.No:NEHU:VCF/24-4/94-515

1.5.96

Dear Shri Nag,

This is to acknowledge the receipt of your letter No.B.16011/6/82/EDC dated: 16.4.96 regarding introduction of MA in Mizo subject from 1996-97 academic session.

The reply from the Ministry of Human Resource Development indicates that the matter is to be placed before appropriate Statutory Bodies of the University for consideration. In fact, the matter had been placed earlier before the Statutory Bodies of the University which considered the Syllabi for the post-graduate degree in Mizo. However, regarding the introduction of the courses, the University is not in a position to go ahead in view of the fact that there is no provision in the 8th Plan. The same is being considered in the 9th Plan proposal. I, therefore, regret to inform you that it is not possible for the University to start the course w.e.f. the 1996-97 academic session unless the funding agencies like the Ministry of Human Resource Development and the University Grants Commission provide special financial assistance for the purpose.

With regards,

Yours sincerely,

Sd/-
(B.Pakem)

Shri C. Nag,
Secretary to the Government of Mizoram,
Education & Human Resources Deptt;
Mizo Secretariat, Aizawl.

Copy to: Shri D.K.Paliwal, Asstt. Educational Adviser,
MHRD, Govt. of India, Deptt. of Education,
New Delhi.

5:6:3:(3)

C O P Y

ANNEXURE B

Naresh C. Mathur
Vice-Chairman

UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI - 110002

D.O.No.F.7-1/90(CU)

18.3.96

Dear Prof Pakem,

Please refer to your D.O.letter No.NEHU:VCF/24-4/94-420
Dated 12th February, 1996 addressed to Chairperson,University
Grants Commission regarding introduction of M.A. in Mizo subject
in Pachhunga University College from 1996-97 academic session.

In the light of your discussion with MHRD & UGC officials
on March 12,13, 1996 kindly put up your proposals as deemed
appropriate now.

Yours sincerely,

Sd/-
(N.C.Mathur)

Prof B. Pakem
Vice-Chancellor
NEHU,
D.O.NEHU Campus,
Shillong - 793022

5:6:3:(4)

C O P Y

ANNEXURE C

D.K.Paliwal
Asstt.Educational Adviser
Tel.No.3338030

MINISTRY OF HUMAN RESOURCE DEVELOPMENT
DEPARTMENT OF EDUCATION
GOVERNMENT OF INDIA
NEW DELHI - 110001

D.O.No.F.3-4/96-Desk(U)

4.3.96

Dear Sir,

Kindly refer to your letter No.NEHU/VCF/24-4/419, dated: February 12, 1996 regarding the introduction of Mizo Subject in Pachhunga University College from 1996-97 academic session.

2. Subject matter of your letter under reference is purely academic and the University may like to place it before appropriate Statutory Body for further examination/consideration.

With regards,

Yours sincerely,

Sd/-
(D.K.Paliwal)

Prof B. Pakem
Vice-Chancellor,
NEHU, Shillong.

(iv) TAKING OVER OF KIANG NANGBAH GOVERNMENT COLLEGE,
JOWAI

As per decisions of the last Academic Council and the Executive Council, the Committee for exploring the possibility of taking over of a Government College from the Government of Meghalaya, after submitting its report (Extract at Annexure A), met the Education Minister of Meghalaya and the officials of the State Education Department. The State Government has agreed in principle and the formal proposal be submitted by NEHU (Extract at Annexure B). Accordingly, the MHRD was informed about the matter, and the MHRD, later on, accorded its approval subject to the submission of a detailed report on the matter (Annexure C). On receipt of the approval of the Ministry, the University submitted a formal proposal to the State Government with a request that a Joint Inspection Team of NEHU and the State Government be sent to visit the Kiang Nangbah Government College to which the State Government has agreed (Annexure D). The Joint Inspection Team visited the College on May 25, 1996 and submitted its report (Annexure E).

The matter is placed for consideration and decision by the Academic Council.

ANNEXURE-A!

As regards Pachhunga University College the Committee noted that its present staff consists of 101 teachers and 93 non-teaching staff. The Committee deliberated at length on the shifting of the College and resolved that though it would be preferable to start our own model University College, under the present circumstances and within the time frame allowed such proposal will neither be viable nor feasible. Since there are only two full-fledged Government Colleges in the State of Meghalaya, one at Tura and the other at Jowai and as the University has already set up a campus at Tura it will be more appropriate if steps are taken by the University to negotiate with the Government of Meghalaya for taking over of one of the Government Colleges. It was decided that a small team of the Sub-Committee consisting of Prof. Lalthantluanga, Pro Vice Chancellor Mizoram Campus, Prof. A.C. Sinha, Prof. M.N. Karna and Prof. M.S. Sangma O.S.D Tura campus will meet representatives of the Government of Meghalaya to explore the possibilities.

ANNEXURE - 'B'

Finally the Minister, Education stated that Government agrees in principle to the establishment of a University College in Meghalaya by taking over a Government College. However, a formal decision will be taken after receipt of the proposal from NEHU.

D.K. Paliwal
Asstt. Educational Adviser

MINISTRY OF HUMAN RESOURCE
DEVELOPMENT
DEPARTMENT OF EDUCATION
GOVERNMENT OF INDIA
NEW DELHI - 110001.

D.O.No.F.8-10/96-Desk (U)

the 26th April, 1996.

Dear Prof. Pakem,

Kindly refer to your D.O. letter No.NEHU:VCF/37-2/94-493 dated 22-04-1996 addressed to Shri D.K. Paliwal regarding the proposal of the University to take over government college at Jowai.

You may like to refer to para IV of the minutes of the meeting (Copy enclosed) taken by Education Secretary on April 4, 1996 regarding Establishment of Mizoram University forwarded to you vide this departments letter No.F.8-6/96-Desk(U). As regards the financial requirement, it may be stated that a detail requirements of the funds for taking over of the college as well as for its running may be prepared and submitted to UGC for examination. A copy of the said document may also be furnished to this department.

With regards,

Yours sincerely,

Sd/-
(D.K. Paliwal)

Prof. B. Pakem
Vice-Chancellor
North Eastern Hill University
Shillong.

UNDERGRADUATE COLLEGE OF NEHU

As bulk of the 'likely to be repatriated' employees belong to the Pachhunga College - an Under-Graduate College- it may be necessary to establish a constituent College within the University to properly utilize this manpower.

It was the consensus that aside from the exigencies of situation a Constituent College within the University in Meghalaya was eminently justified on merits.

Vice-Chancellor was requested to prepare a suitable proposal for establishment of a constituent Under Graduate College within Meghalaya, preferably by converting an existing Government College into a Constituent College.

ANNEXURE - 'D'

C.B. MARAK
Minister
Education including Prry. Education,
Literacy Mission & Adult Education,
Arts & Culture,
Meghalaya, Shillong.

D.O.No. EDN.86/96/16,

Date SHG, the 9th May, 1996.

Dear Dr. Pakem,

I am in receipt of your D.O. letter dated the 22nd April, 1996, alongwith its enclosure namely, the Deed of Agreement between the N.E.H.U. and the Government of Mizoram for the establishment of the University College at Mizoram.

In this connection, I want to express my deep appreciation for the interest taken by you in upgrading the standard of Collegiate Education in the State. While the Department of Education has agreed in principle to the establishment of a University College at Jowai by taking over the Government College, the final decision of the State Government in the matter alongwith the draft MOU/Deed of Agreement is being processed and will be communicated to you soon.

I welcome the suggestions for a Joint Inspection by the N.E.H.U. and the State Government to Jowai to inspect the site of the proposed University College at Jowai. I have advised the Commissioner & Secretary, Education, to be in touch with the N.E.H.U. Authorities for a convenient date of the Joint Inspection.

With kind regards.

Yours Sincerely,

Sd/-

(C.B. Marak)

Dr. B. Pakem,
Vice-Chancellor,
North Eastern Hill University,
P.O. - NEHU Campus, Mawkynroh,
Mawlai, Shillong - 793008.

The Minutes of the Visiting Team to Jowai Govt. College.

The Visiting team consisted of the following members :

- (1) Prof. H. Junjappa
- (2) Prof. A.C. Sinha

The Government of Meghalaya was represented by the following officials :

- (1) Director of Public Instruction, Mr L. Roy
- (2) Joint Director of Public Instruction, Mr. A. Momin.

The joint team visited the college on May 25, 1996, held discussions with concerned parties, inspected the college site and made the recommendations.

Sd/-
Signed
J.D.P.I.

Sd/-
Signed
D.P.I.

Sd/-
Signed
Prof.A.C.Sinha

Sd/-
Signed
Prof. H. Junjappa

Recommendations :

1. The Committee recommends that it is desirable to take over the college with the legal transfer of the properties. The Govt. of Meghalaya agrees to the proposal.
2. It is felt that in order to provide for future expansion of the college the Govt. of Meghalaya be requested to provide another 70 acres of land adjacent to the college campus or about a hundred acres of land nearby on another site.
3. It is recommended that the Meghalaya Govt. settles pending financial liabilities of the college by the time it hands-over the college to NEHU.
4. The Visiting Team found the response of the teaching staff to be positive. However, only permanent and not casual/adhoc staff will be given option to remain with the parent employer or join the NEHU.
5. Once the option is exercised, a joint seniority list of the teaching and another of non-teaching staff alongwith Pachhunga University College will be drawn on the basis of the inter-se seniority already fixed by the two colleges.
6. There are some teachers on the staff of the college, who do not fulfil the UGC requirements, but they have to be accepted on NEHU service in case they opt for it.
7. The college staff and students will continue to avail the present medical facilities till NEHU makes an alternative arrangement.
8. The Government of Meghalaya shall complete the on-going constructions and withdraw all the proposed investments on the campus.
9. The present building inclusive of the new construction is not adequate for another five departments.
10. The college has inadequate in-built floor space for teaching staff coming from Pachhunga University College.
11. NEHU has to go for immediate construction of residential quarters and hostel accommodation for boys and girls.

Signed

Sd/-

Shri A.G. Momin
Jt.D.P.I.Meghalaya

Signed

Sd/-

Sri L.Roy
D.P.I.Meghalaya

Signed

Sd/-

Prof.A.C.Sinha

Signed

Sd/-

Prof.H.
Junjappa

VISIT TO JOWAI FOR INSPECTION THE GOVT. KIANG NANGBAH COLLEGE

MAY 25, 1996.

DETAILED INFORMATIONS

1. Area in terms of land already occupied and vacant land.

33.11 acres; 743.85 square metre plinth area of the three storey concrete building.

Land : The land on which the College is situated is not adequate enough for expansion. It requires about a hundred acres. For example the P.U.C. at Aizawl has 275 acres of land. The Govt. of Meghalaya may acquire more land from the adjoining vacant land. Alternatively sufficient land may be provided at a short distance from the college. There is a thorough fare across the college land, which is being diverted by constructing a new road. There are three points on which temporary encroachments have been made across the college fencing. The college site-specially wooded unoccupied portions, is used as public/picnic spot occassionally.

2. Buildings :

*Academic (class rooms/laboratory)

*Office : Separate office for the Principal

*Hostel : 50 students boys hostel

*Staff quarters : (1 : Principal + 2 Teachers + 2 staff).

Building - being extended from Library and laboratories.

Entrance ground from the gate need urgent repairs.

3. Science laboratory :

*Space

*Equipments, subjectwise

(X)

()

Details Attached

4. Student facilities :

* Playgrounds - football, volley ball

* Indoor sports : None, separate canteen building

5. Library :

*Space : 14' x 36' one room

*Furniture : Cramped with almirahs-no reading room, No furniture.

*Books & Journals : 31208 books, bookbank-15,051. Mazazines
16 + Journals- 17

6. Students Strength :

*Classwise : 1198 in total

*Subject wise : Details attached

7. Teaching Staff:

* Subject wise no: 60 + 1 : Details attached

* Qualification of each teacher

* Details of scales and the present salary components of each teachers.

8. Non-teaching staff:

* Positionwise No LD-2, UD-1, Grade IV etc.

* Scales of pay and the present salary components of each employee : 21 (Details attached casual staff-9)

9. Present financial demand (requirements):

*Salary: Non Plan Rs. 49,72,472 + Plan Rs. 17,08,260

*D.A.

*H.R.A.

* Medical : The employees get the facilities as the Government employees.

*PF etc.

Contd/.../-

*Library : Books Rs.50,000 + Book Bank : Rs.50,000/-

*Student activities : Sports & Common Room-Rs.29,100+
College Magazine -Rs.20,000 + Field
Study trip Rs.22,000

*Laboratory : Scientific equipment : Rs.150,000/-

*Maintenance & Office expenses : Rs.1,99,642

*Development grants

*Travelling expenses-Rs.18,000

10. Extent of available grants, income etc.

*Government

*Internal sources : Student fees etc.

*Any other income

11. Details of financial liabilities :

*Arrears of salary, if any

*CPF arrears, if any

*Non-revision of scale, if still pending

12. Extent of Meghalaya Govt. () of grants for the last five years (Year wise break up) .

*Besides meeting with the Principal and other officials, a separate meeting with the MTCA College Unit may be arranged, if it is existing in the College: Meeting with teachers was held.

The real picture of the College, may be ascertained from these people. The college is run from the DPI's Office Shillong as a part of their over all educational administration under the sub-head of higher education.

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Science Laboratories

- Chemistry : (a) There only one laboratory of the size 60'x25' = 1400/- where all practicals of the three branches of Chemistry are being conducted. They are likely to add one more laboratory of the same size in the near future.
- (b) There is no separate store for Chemicals and equipment.
- (c) All the Chemistry practicals including PU.Sc,B.Sc. both Major and General are conducted in the same laboratory.
- (d) There is no balance room attached to laboratory.
- (e) Laboratory working table need to be replaced.

Remarks:

Physics:

The Physics laboratory's 1) 36' x 25 = 900 Sq
are at present are 2) 12 x 25 = 300 Sq

Sufficient, since the number of students in B.Sc. Major (6) and General (4).

Human- There are 42 students in PU.Sc. and the Laboratories are not big enough to accommodate students.

There are no equipment for 3rd year B.Sc classes.

Zoology

(a) Laboratory Size: 60' x 25' = 1400 Sq

PU.Sc students 65

B.Sc.Major 15

B.Sc.General 15

The Laboratory is just enough to carry practicals.

Contd/.../-

- b. There is no store facility to keep the equipment
- c. Laboratory working tables need to be replaced .
- d. Microscopes both ordinary and compound are available
Microfone, Ptt.meter, Kymograph are available and- The
space is not adequate to permanently install certain
facilities.
- e. Tol frogs, dogfish, and Lobsters for experiments are
procured without any difficult.
- f. Water supply needs improvement

Botany

Laboratory 24' x 25 = 600 Sq

- a. Botany Laboratory requires expansions
- b. There 50 BU, Sc students B.Sc
Major(5) B.Sc. General(15)

There is a need to buy microscopes and other equipment.
The present facility is inadequate.

Contd/.../-

GOVERNMENT OF MEGHALAYA

OFFICE OF THE PRINCIPAL KIANG NANGBAH GOVT. COLLEGE:::JOWAI

No.KNGCJ-0/7/96-97/157

Dated Jowai, the 24th May, 1996.

From : Shri R.K.Goswami, M.A.,
Principal,
K.N.Govt. College, Jowai.

To,

The Director of Public Instruction,
Meghalaya, Shillong.

Subject: Opening of University College in Meghalaya

Ref : Your No.CE/GC/UC.1/96/4 dt.10.5.96.

Sir,

With reference to the above subject, I have the honour to furnish the following informations in respect of K.N.Govt. College, Jowai for favour of your kind perusal and necessary action.

1. Area of the K.N.Govt. College = 33.11 acres

2. Plinth area of the college building:

Ground floor = 743.85 sq.metres

passage = 277.79 sq.m

porch = 46.48 sq.m.

1st floor = 720.58 sq.metres,

passage 277.79 sq.m.

3. Boys Hostel :

Accommodation approximately 65 students.

4. Total number of teachers = 60 |
plus one demonstrator 1 | = 61

5. Office staff = 3 (1 U.L.A., 2 L.D.As)

b) Peons = 1

c) Chowkidars = 3

d) Sweepers = 2

f) Casual = 9

g) Lab.staff = 4

h) Lib.staff = 3(1 Dy.Librarian, 1 Lib.Asstt and 1 Lib.Bookman)

6. Total enrolment of students during 1995-96.

Degree Arts = 445

Degree Sc. = 65

P.U.(A) = 250 (Major in Degree started in 1994)

P.U.Sc. = 61

XI (A) = 315

XI (Sc) = $\frac{60}{1198}$

7. One College Bus in in running condition..

Sd/- Principal 24.5.96
K.N. Govt. College,
Jowai

Enclo: a copy each of

1. enrolment
2. List of teachers
3. Total No. of books
4. Statement of expenditures
5. List of office staff

Copy forwarded to Prof. Junjappa of NEHU Inspection team

Sd/- Principal
25.5.96

Details of floor area of K.N.Govt. College, Jawai.

1. College Canteen = 100.52 Sq.mt.
2. Chowkidars' quarter-2 Nos. 78.56 sq.mts.
3. Staff quarters 2 Nos = 203.45 sq.mts.
4. Principal's quarter 1 No. 150.00 sq.mts.
5. College building 1 No. 2092.56 sq.mts.
6. Hostel 1 No. = 630.34 sq.mts. ground floor & 1st floor each
7. Top floor. 764.36 sq.mts. for 2 sides, Western & eastern
8. Conversion of laboratory into reading room, 70.70 sq.mts both sides, ground floor & 1st floor each.

Total floor area of the college building as given by the P.W.D. = 2901.55 sq.mts.

9. Additional land -approximate 4.1 hecter excluding for Science Block

Sd/- Principal
K.N. Government College,
Jawai

.....

Number/Enrolment of student Classwise 1995-96.

<u>Class wise</u>	<u>Number of students</u>		
Class XI Arts Day	141		
Class XI Morning	174		
Class XI Science	62		
3rd year B.Sc	16	Offered Major	14
2nd year B.Sc.	26	Offered Major	16
Ist Year B.Sc.	26	Offered Major	26
2nd Year P.U. Day	132		
2nd Year P.U. Arts Morning	118		
Ist Year B.A. Day	111	Offered Major	94
Ist Year B.A. Morning	69		
2nd Year B.A. Day	74	Offered Major	71
2nd Year Morning	76		
3rd Year B.A. Day	69	Offered Major	59
3d Year Morning	40		
B.A.(Hons)	6		

Grand Total=1198

(Office seal)

Sd/-
K.N.Government College
Jaintia Hills Jowai
Meghalaya.

Name of the Teaching Staff Departments wise & Date
of joining Service as Lecturers.

Sl.No.	Name of the Lecturers	Qualification	Date of Joining.
<u>ENGLISH</u>			
1.	Smt.M.M.Marwein	M.A.litt.	1.9.70
2.	Smt.B.V.Nongbri	M.Phil	1.10.75
3.	Smt.J.M.Pakynstein	M.A.	16.1.85
4.	Smt.L.D.Sohklet	M.A.	3.11.83
5.	Smt.P.Paslein	M.A.	1.4.84
<u>KHASI</u>			
6.	Smt.T.Pyrtuh	M.A.	2.2.81
7.	Smt.R.Pyrtuh	M.A.	1.6.84
8.	Smt.R.Shylla	M.A.	3.12.91
<u>ECONOMICS</u>			
9.	Smt.D.Mukser	M.A.	10.10.72
10.	Smt.M.Sareh	M.A.	20.9.74
11.	Smt.M.Jungai	M.A.	1.9.81
12.	Smt.B.Nonghullo	M.A.	17.6.83#2
13.	Sri.O.U.Lyngdoh	M.A.	29.10.85
<u>EDUCATION</u>			
14.	Smt.M.M.Syngai	M.A.	4.9.81
15.	Sri.H.S.Shullai	M.A.	15.5.82
16.	Smt.Q.Lyngdoh	M.A.	21.2.95+2
17.	Smt.D.E.Lamare	M.A.	15.12.94
<u>POLITICAL SCIENCE</u>			
18.	Smt.V.D.Laloo	M.A.	3.2.75
19.	Shi.G.S.Shullai	M.A.	1.11.77
20.	Smt.E.E.Laloo	M.A.	15.7.79#5
21.	Sri.S.Laloo	M.A.	15.12.95
22.	Sri.R.Lamar	M.A.	13.8.86

Contd.....P.....

Name of the Teaching Staff Departments wise & Date
of Joining Service as Lecturers.

Sl.No. Name of the Lecturers Qualification Date of Joining

HISTORY

23.	Sri.F.Laloo	- M.A.	- 1.4.75
24.	Sri.Ch.L.Nengtdu	- M.A.	- 15.9.77
25.	Smt.W.M.Shullai	- M.A.	- 19.11.77
26.	Smt.M.Laloo	- M.A.	- 3.10.83
27.	Sri.O.R.Shallam	- M.A.	- 30.4.82

PHILOSOPHY

28.	Dr.(Shri)H.L.Debrey	- Ph.D.	- 18.11.70
29.	Smt.A.Pehty	- M.A.	- 10.12.92
30.	Smt.D.M.Das	- M.A.	- 7.2
31.	Sri.B.Pohleng	- M.A.	- 3.1.95

COMMERCE

32.	Shri.H.Rai	- M.A.	- 1.10.92+4
33.	Shri.S.D.Tynseng	- M.A.	- 19.2.96
34.	Shri.J.Kharkongor	- M.A.	- 19.2.96

MATHEMATIC

35.	Shri.B.Lamare	- M.Sc.	- 1.9.76
36.	Shri.V.M.Rai	- M.Sc.	- 17.9.83

PHYSICS

37.	Shri.T.R.Kynta	- M.Sc.	- 5.10.74
38.	Shri.S.De	- M.Sc.	- 4.3.87
39.	Shri.T.Samon	- M.Sc.	- 1.9.92
40.	Shri.Y.Iengwai	- M.Sc.	- 15.12.94+6
41.	Shri.B.D.Cajee	- M.Sc.	- 1.3.95

CHEMISTRY

42.	Dr.(Mrs)D.Laloo	- Ph.D.	- 29.9.78
43.	Shri.S.Choudhury	- M.Sc.	-
44.	Shri.B.K.Chakraverty	- M.Sc.	- 15.10.84
45.	Smt.L.M.Sangma	- M.Sc.	- 20.2.96 +5
46.	Sri.F.Rumnong	- M.Sc.	- 26.2.96

BOTANY

47. Smt.L.Lakiang	-	M.Sc.	15.7.78
48.Smti.T.Lyngdoh	-	Ph.D.	1.6.82
49.Smt.J.M.Q.Lyngdoh	-	M.Sc.	16.10.85
50.Smt.E.M.Blah	-	M.Sc.	2.7.93
51.Smt.A.Mawa	-	M.Sc.	16.11.93
52.Smt.B.Gashnga	-	M.Sc.	7.12.93+3
53.Smt.D.Passah	-	M.Sc.	10.7.88

ZOOLOGY

54.Smt.Sati Choudhury	-	M.Sc.	1.3.76
55.Sri.D.B.Lynser	-	M.Sc.	25.7.84
56.Sri.D.S.Lynshiang	-	M.Sc.	21.11.85+3
57.Smt.L.Darnei	-	M.Sc.	26.9.95
58.Smt.P.Tiewseh	-	M.Sc.	
59.Smt.A.Najiar	-	M.Sc.	10.1.95
60.Smt.D.A.Pde	-	M.Sc.	5.8.88

Sd/-

Principal
K.N.Government College
Jaintia Hills Jowai
Meghalaya.

(Seal)

OFFICE OF THE PRINCIPAL KING NANGBAH GOVERNMENT
COLLEGE, JOWAI

1. Total No. of Books in the Library	-	31208
2. Total No. of Book Bank	-	15,057
3. Total No. of Magazines	-	16
4. Total No. of Journals	-	17

Sd/-

PRINCIPAL
K.N.Government College
Jowai.

Name of Non-Teaching staff and number of years of service.

1. Mrs.B.Lyngdoh, U.D.Asstt.	-	40 yrs. running	
2. Miss M.Challam, Dy.Librarian	-	5 "	"
3. Mrs.T.Lytan, Demonstrator	-	20 "	"
4. Mrs.H.D.Kynjing, Library Asstt.	-	12 "	"
5. Mr.T.War, L.D.Asstt.	-	19 "	"
6. Mrs.C.Lyngdoh, L.D.Asstt.	-	13 "	"
7. Mr.R.Pariat, Peon	-	22 "	"
8. Mr.B.P.Sharma, Peon	-	2 "	"
9. Mr.D.Joshi, Peon	-	2 "	"
10. Miss L.Myrten, Lib.Bookman	-	3 "	"
11. Mrs.W.Shylla, Cook	-	24 "	"
12. Mrs.N.Shylla, Cook	-	23 "	"
13. Mr.R.Lyngdoh, Driver	-	11 "	"
14. Mr.O.Dkhar, Handyman	-	10 "	"
15. Mrs.E.Dkhar, Sweeper	-	2 "	"
16. Mr.D.Chetri, Chowkidar	-	2 "	"
17. Mr.M.Doom, Sweeper	-	2 "	"
18. Mr.T.Passah, Lab.Bearer	-	22 "	"
19. Smt.L.Dkhar " "	-	21 "	"
20. Mr.B.Passah " "	-	21 "	"
21. Mr.E.Suna " "	-	5 "	"

Sd/-Principal
K.N.Govt. College
Jowai.

Details of the informations relating to the
K.N.Govt. College, Jowai.

1. As per the site plan of the college certified by the P.W.D., Kiang Nangbah Govt. College, Jowai has an area of 33.18 acres of land and there are sufficient land adjacent to the college land which may be available to the college as and when necessary.
2. Details of class rooms etc.

Ground floor -

- 4 Laboratories for the department of Physics (a&b), Chemistry and Gas room, Botany and Zoology.
- 1 office room
- 1 room for the VicePrincipal
- 1 Library room
- 2 Common Rooms, 1 each for boys and girls students
- 2 toilets

1st floor

- Principal's room 1 (one)
- Computer Room 1 (one)
- Class rooms 9(nine)
- Student's Union room 1(one), toilets 2(two)

2nd floor

- Halls 3 (three)
- Big room 1(one) to be used for class room

Toral No of class rooms = 13.

- 3 . In Boys(Hostel, there is also a Superintendent(s quarter.
 - Principal's quarter 1(one)
 - Staff quarters 2(two)
 - Chowkidar's quarters 2(two)
 - College Canteen 1(one)

Sd/- 23/5/96.
Principal
K.N.Govt. College,
Jowai

5: 6: 4* (23)

EXPENDITURE 1995-96

RECURRING

SALARIES = NON-PLAN	Rs. 49,72,472/-	PLAN = Rs. 17,08,260
TRAVELLING ALLOWANCE =	Rs. 18,000/-	
OFFICE EXPENSES =	Rs. 1,99,642/-	
SCIENTIFIC EQUIPMENTS =	Rs. 1,50,000/-	
COLLEGE MAGAZINE =	Rs. 20,000/-	
SPORTS & GAMES AND COMMON ROOMS FACILITIES	Rs. 29,100/-	
FIELD STUDY TRIP =	Rs. 22,000/-	

NON-RECURRING GRANTS

1. LIBRARY = Rs. 50,000/-
2. BOOK BANK = Rs. 50,000/-

Sd/- 23/5/96
Principal
K.N.Govt.College, Joway.

5:7 - Affiliation etc.

- (i) Inspection report for extension of Degree Course in Jaintia Eastern College, Khliehriat.

The Director, College Development Council has forwarded the Inspection Report for extension of affiliation of Degree Course in respect of Jaintia Eastern College, Khliehriat.

The report is placed at Annexure-'A'.

The matter is placed before the Council for consideration.

NORTH EASTERN HILL UNIVERSITY
SHILLONG.FOR NEW COURSE/UPGRADATIONINSPECTION REPORT

1. Name of the College: JAINTIA EASTERN COLLEGE, KHLIEHRIAT
- 2(a) Year of affiliation & corresponding University Notification No. CDC/A-112/92-93/3196-77 dated. 30.1.92. (Annexure I)
- (b) Level to which affiliation: P.U/B.A.
3. Affiliation/Permission sought to upgrade to or B.A/B.Sc. General course in Extension of Degree level subject Introduce(a new subject) English, Khasi (MIL) Eco Education, Hist. Pol. Sc.
4. Admission (for the last three years)

<u>YEAR.</u>	<u>P.U.</u>	<u>B.A.I</u>	<u>B.A.II</u>	<u>B.A.III</u>	<u>TOTAL.</u>
92-93	65				65
93-94	44				44
94-95	43	4	1		49
95-96	35	29	14		60

5. Result of University examination during the last three yrs.

<u>EXAMINATION</u>	<u>YEAR</u>	<u>PERCENTAGE OF PASS</u>
P.U(Arts)	1994	69.5%
P.U(Arts)	1995	61.11%
B.A.	1995	25%

&

- 6- In case the college is seeking Honours in a subject (a) for which it has already a Pass Course please give below the No. of students admitted in the last three years and their results for these years in the SUBJECT in which college has applied for Honours.

7. FUNDS.

(a) Whether the college is having a Reserve Fund in long term Fixed Deposit: Yes Rs. 2,00,000.00 (annexure 2)

If yes, the details thereof: (Bank FDR No. 012600 dt. 4.6.92 Draft No. of term deposit receipt, etc) the Meghalaya Co-operative Apex Bank, Jowai.

(b) Present working fund: Rs. 3,50,000/- (annexure 3, 4, 5)

- B. Qualification/Specialization of the Teaching Staff (of the Relevant subjects only)

(ANNEXURE 6)

NAME AND DESIGNATION.	QUALIFICATION (WITH GRADE & SUBJECT IN P.G.)
1. Phervision Nongtdu	Principal (act) M.Sc) Bio-chem) 54.9%
2. Emmanuel Shangpliang	Lecturer (Economics) M.A (Eco) 60.00% (NET)
3. Davidson Diengdoh	Khasi (MIL M.A (Khasi) 50.00% M. PHIL)
4. Manoni Kharshiing	History M.A (Hist) 55.00%
5. L.B. Henkhongmang	Pol. Sc. M.A (Pol. Sc) 54.5% (M. Phil)
6. Jenyfer Kshiar	Pol. Science M.A (Pol. Sc) 55.16%
7. Nadiren Sarkar	English M.A (Eng) 52.8%
8. DiKip Kr. Mazundar	Pol. Science M.A (Pol. Sc) 55.4%
9. Jose Poulouse	English M.A (Eng) 53.6%.

NOTE: THE UNIVERSITY REGULATION STIPULATES THE FOLLOWING
STAFF REQUIREMENT.

LEVEL/CLASS MINIMUM NO. OF TEACHERS IN EACH SUBJS.

NIL

NIL

9. LAND AND SITE

(annexure 7, 8, 9, 10)

a) Whether the college is having permanent building on its own land: College has acquired a plot of land for the college campus.

b) Area of the college campus: 1046 square metres.

c) Accommodation (give size) College is presently functioning in a Committee building.

1. One room for the Principal: 35 x 25'

2. One room for the Vice-Principal: -

3. One room for the college office: 22x15'

4. For staff common Room: 20x11' adequate.

5. Common room for boys and girls: 30x20'

6. Library with reading room : 30 x 20'

7. Class room: 3 - 30x20' adequate.

10. Workload of teachers: Satisfactory.

11. Library books:

Total volumes: 330

Subjectwise break-up (of the relevant subjects only) (annexure 11)

PJL. SCIENCE 61

ECONOMICS 71

HISTORY 48

EDUCATION 50

ENGLISH 25

KHASI (MIL) 60

OTHERS 15.

contd. 4/-

Whether the college has a trained Librarian: NIL

12. Laboratory facilities:

13. When was the last Governing Body Meeting: 10th Nov. 1995.
(annexure 12, 13)

14. Any other relevant information(s)/point(s): College organised NSS Social work camps and TLC Campaign in rural Areas.

RECOMMENDATIONS.

Please make your recommendation without any ambiguity. In case you suggest provisional affiliation for a particular period, please mention the academic year specifically. Please also mention the conditions, if any, to be fulfilled if extension of affiliation is to be considered.

The Inspection was conducted on 13 April, 1996. The Inspection Committee recommends extension of affiliation for further two years. The college authority should take immediate steps to fulfill the following conditions.

- (i) Construction of the college building in the plot of land acquired for the campus.
- (ii) Appointment of qualified teachers in discipline such as education, economics and Khasi (MIL)
- (iii) Improve the library and reading room facilities by appointing a trained librarian and acquire more number of books and journals in the relevant subjects.
- (iv) College should have a services of a full-time qualified principal.

Sd/-illegible. 13.4.96.

Sd/-B.L.Swer.
13.4.96.

Sd/-R. Kharpor
13.4.96.

Sd/-M.A. Sudhir, 13.4.96.

JAINTIA EASTERN COLLEGE, KHLIEHRIAT-793200

ANNEXURE-3.

RECEIPTS AND EXPENDITURE DURING 1ST, JAN (94 UPTO 31st March 1995

		AMOUNT.
Sl.no.	particulars/Head Account	
1.	(Grano-In-Aid from Govt (1994-95).	Rs.25000.00.
2.	Public contribution	Rs. 196400.00
3.	Fees from students	Rs. 64045.00
4.	Memberships fees.	Rs. -
5.	Other receipts.	Rs. -
6.	Miscellaneous receipts B.F. TOTAL	Rs. 12544.00
		Rs.297989.00

(Rupees two lacs ninety seven thousand nine hundred eighty nine) only.

EXPENDITURE DURING 1st Jan. '94 upto 31st March '95.

Sl.No.	Particulars/Head Account.	Amount.
1.	Salary account.	Rs.277800.00.
2.	Stationery & Printing.	Rs. 6500.00
3.	Meeting & Function.	Rs. -
4.	Furnitures & Fixture	Rs. 6440.00.
5.	Misc.charges.	Rs. 220.00.
6.	Travelling allowances.	Rs. 5000.00.
7.	Sports & Games.	Rs. 150.00.

total Rs.296090.00

(Rupees two lacs ninety six thousand and ninety) only.

BALANCE Rs.(297989.00 - 296090.00 - Rs.1099.00.Say Rs.1900.00

(Rupees one thousand nine hundred) only as on 31.3.95.

Certified that the above balance say Rs.1900.00 (Rupees one thousand nine hundred) only have been duly taken from the general ledger as on 31st March 1995 and that they are correct.

Sd/-illegible.
president
Jaintia Eastern College,
Jaintia Hills.

Sd/-illegible.
Secretary, 31.3.95.
Khliehriat -Meghalaya.

Sd/-illegible.
Principal
Jaintia Eastern College,
Khliehriat.

%%%%%%%%%

ANNEXURE-4

JAINTIA EASTERN COLLEGE:: KHLIEHRIAT-793200
JAINTIA HILL:: MEGHALAYA.

RECEIPTS AND EXPENDITURES DURING 1st Jan. 1993 upto 31. Dec. 1993.

SL. NO.	PARTICULARS/HEAD ACCOUNT	AMOUNT.
1.	Grant-in-aid from Govt.	Rs. nil.
2.	public contribution.	Rs. 196000.00
3.	fees from students.	Rs. 50000.00
4.	Membership fees	Rs. -
5.	other receipts.	Rs. -
6.	Miscellaneous receipts- B/F.	Rs. 1296.00

TOTAL Rs. 3,27,269.00

(Rupees three lacs twenty seven thousand two hundred sixty nine) only.

EXPENDITURES DURING 1st JAN. 1993 UPTO 31st DEC. 1993.

SL. NO.	PARTICULARS/HEAD ACCOUNT.	AMOUNT.
1.	Grand-in-aid from Govt.	Rs. 265000.00.
2.	stationery & Printing.	Rs. 15270.00
3.	Meeting & Functions.	Rs. -
4.	Furnitures & Fixtures.	1500.00
5.	Misc. charges.	Rs. 450.00
6.	Travelling allowances.	Rs. 32505.00
7.	Sports & Games.	Rs. -

TOTAL Rs. 314725.00

(Rupees three lacs fourteen thousand seven hundred twenty five) only.

BALANCE-Rs. (327269.00 - 314725.00) -Rs. 12544.00. (Rupees twelve thousand five hundred forty four) only. as on 31.12.93.

Certified that the above balance of Rs. 12544.00 have been duly taken from the General ledger as on 31.12.93 and that they are correct.

Sd/-illegible.

Jaintia Eastern college, Secretary,
Jaintia Hills.

Sd/-illegible. 12/12/93

Jaintia, Khliehriat,
Meghalaya.

Sd/-illegible. 12/12/93
Principal
Jaintia Eastern College,
Khliehriat,

.....

ANNEXURE 5.

JAINTIA EASTERN COLLEGE; KHLIEHRIAT-793200
 JAINTIA HILLS: MEGHALAYA

RECEIPTS AND EXPENDITURES DURING 1ST AUG '92 UPTO 31ST DEC. 1992.

Sl.No.	Particulars/Head Account.	Rs.
1.	Grand-in-aid from Govt.	NIL
2.	Public Contribution.	Rs. 212130.00
3.	Fees from Students.	Rs. 36300.00
4.	Membership fees.	Rs. 1000.00
5.	Other receipts.	-
6.	Miscellaneous receipts.	-
TOTAL		Rs. 2,50,230.00

(Rupees two lacs fifty thousand two hundred and thirty only)

EXPENDITURES DURING 1ST AUG '92 UPTO 31 ST DEC. 1992.

SL.NO.	PARITULCARS/HEAD ACCOUNT.	AMOUNT.
1.	salary account.	Rs. 100700.00
2.	Stationery & Printing.	Rs. 32306.00
3.	Meetings and functions.	Rs. 16400.00.
4.	Furnitures & Fixture.	Rs. 16035.00.
5.	Misc.charges.	Rs. 2720.00
6.	Trevelling allowances.	Rs.-
6.	Sports & Games.	Rs.-
TOTAL		Rs. 1,60,961.00

(Rupees one lac sixty eight thousand nine hundred sixty only)

BALANCE-Rs. (250 230.00 - 160961.00)-Rs. 81269.00 as on 31-12-92

Certified that the above balances have been duly taken from the General Ledger as on 31.12.92 and that they are correct.

Sd/-illegible.

President.

Jaintia Eastern college
 Khliehriat-Meghalaya.

Sd/-illegible.

Secretary

Khliehriat-Meghalaya.

Sd/-illegible. 3/12/92

Principal

Jaintia Eastern College
 Khliehriat-Meghalaya.

LIST OF TEACHERS WITH QUALIFICATION & MARKS/NET ETC.ANNEXURE-6.

<u>NAME & DESIGNATION</u>	<u>QUALIFICATION</u>	<u>SUBJECT</u>	<u>MARKS.</u>
1. Phervision Nongtdu. (actg. Principal)	M.Sc(Bil-Chemistry.Lect.		54.9%
2. Anmanuel shangpliang	M.A Net	Lectures Economics	60.00%
3. Davidson Dienjoh	M.A. M.Phil	Khasi MIL	03.00%
4. Smt.Mamoni Kharshing	M.A.	History	55.00%
5. L.B.Henkhomang	M.A.M.Phil	Pol.Sc.	54.5%
6.* Smt.Jenyfer Kshiar	M.A.	Pol.Sc.	55.10
7. Shri.Nadiren Sarkar	M.A.	English	52.0%
8.* Shri.Dilip Kr. Mazumdar (part time)	M.A.	Pol.Sc.	55.4%
9. Shri.Pose Paulose(P/time)	M.A.	English	53.0%

N.B: Education deptt.is yet to filled the vacant post.

* There are two adhoc teachers.

Sd/-P.Nongtdu
Actg.Principal
Jaintia Eastern College,
Khliehriat.

TO WHOM IT MAY CONCERN

This is to certify that the Jaintia Eastern College,
Khliehriat has acquired a plot of land for College Campus bearing
the LHC No.16 of 1994 at Khliehriat.

Sd/-P.Nongtdu. 13.4.95
Principal
Jaintia Eastern College,
Khliehriat.

ANNEXURE-12.

LIST OF GOVERNING BODY MEMBERS:

- 1. Rev.T.Nongtdu President.
 - 2. Shri.P.Nongtdu Secretary.
 - 3. Members:
 - i. D.R.Ksih.
 - ii. L.Swer.
 - iii.Issaia Pala.
 - iv. N. Phawa.
 - v. E.Sutnga.
 - vi M.Bereh
 - vii. RqLyngdoh.
 - viii. T.A.Khonglah.
 - ix. P.Sutong.
 - x. C.Rymbai.
 - xi. Dr.N.Kumar Dept.of Sociology.NEHU. X
 - xii. Dr.G.R.Syiemlieh,deptt.of History.NEHU X
- NEHU REPRESENTATIVES.

Sd/-illegible.
 Principal
 JAINTIA EASTERN COLLEGE
 KHLIEH IAT.

%%%%

(iv) Special Assistance Programmes- autonomy thereof

The UGC vide D.O. Letter No. F.5-1/92/(SAP) dated 10.1.1994 Annexure 'A' decided that all approval sanctions under the SAP henceforth are subject to the condition that each department under the SAP would have to be granted autonomy by the University for all financial and administrative matter. On the above decision the Heads of the departments in its meeting suggested that the department who applied for SAP will have the sub-committee to examine the matter. From the University six Deptts. viz. Botany, Pol. Science, Mathematics, Zoology, History and Chemistry have sent there proposal to UGC, out of six Deptts., the Committee further suggested that the Head, Deptt. of Chemistry, Botany, History and Zoology alongwith the Co-ordinators of SAP are to form a sub-committee and Prof. H. Junjappa will be the Chairman while the Heads of these Deptts. will be the member of the Sub-Committee, minutes placed at Annexure 'B'.

The Chairman of the Sub-Committee has forwarded the minute of the meeting Annexure 'C' and was placed to the Deans' Committee for consideration and the Dean Committee further decided to be placed to the Academic Council for decision.

COPY

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ANNEXURE 'A'

DR. S. P. GUPTA
Additional Secretary

GRANTS UNGRANTS
UNIVERSITY GRANTS
COMMISSION
CAJIDUR SHAH ZAFAR MARG
NEW DELHI - 110 002

10, Jan, 1994.

D.O. No.F.5-1/92(SAP-I)

Dear Sir,

As you are aware, the University Grants Commission is providing assistance to a number of departments in Humanities, Social Sciences, Sciences, Engineering and Technology of your university/institute under the scheme of Special Assistance Programme (SAP).

The Commission has recently revised the guidelines for SAP-COSIST integrated Programme and a copy of which was sent to you by the Secretary, UGC in June, 1993.

At the time of revising the guidelines, it was observed by the Commission that many departments under the Special Assistance Programme (SAP) have felt difficulty in implementation on day-to-day basis because there has not been sufficient delegation of authority to them within University/institute. In order to remove the difficulties being faced by the Departments under this programme (SAP), the Commission has decided as under:

That all approval/sanctions under the SAP henceforth are subject to the condition that each department under the SAP would have to be granted AUTONOMY by the university/institute for all financial and administrative matters relating to SAP within TWO YEARS of a fresh approval/sanction for new departments and by end of 1994 for the departments already covered under SAP. In the event of failure of the University to formally grant such autonomy, the approval/sanction under the SAP would be withdrawn.

It was also decided by the Commission in its meeting held on 27th September, 1993 that the departments having SAP and COSIST Programmes should immediately introduce the examination reform measures and funding for the SAP and COSIST programmes should be linked with the implementation of the Minimum Programme of Examination Reforms in these departments.

above
The/mentioned decisions are also applicable to the Deptts. which have received assistance under the COSIST Programme.

The Commission will appreciate it, if you would take immediate and appropriate steps in this regard.

The decision taken by the University/institute may be intimated to me at the earliest, but not later than 31st March, 1994.

With kind regards,

Prof. B. Paken,
Vice-Chancellor,
MEHU., Shillong.

Yours sincerely,
Sd/-
(S.P. GUPTA)

MINUTES OF THE HEADS OF DEPARTMENTS HELD ON 7TH MARCH, 1994.

The Heads of Departments meeting on 7.3.94 met to discuss on the UGC letters of 10th Jan, 1994, in respect of Granting of Autonomy by the University for all financial and administrative matters relating to SAP within two years of (1) fresh approval/sanction for new departments and (2) by the end of 1994 for the departments already covered under SAP. In the event of failure of the University to formally grant such autonomy, the approval/sanction under SAP would be withdrawn. It was also decided by the Commission in its meeting held on 27th September, 93 that the departments SAP and COSISTS Programme should immediately introduce the examination measures and funding for the SAP and COSISTS should be linked with the implementation of the minimum programme of examination reforms in these departments. The above mentioned decision are also applicable to the departments which have received assistance under the COSISTS Programme.

The Committee after perusing the UGC letters and its conditions wherein and on being pointed out by the Head of the Department of Chemistry that the academic autonomy spelt out in the UGC letter of 8th Nov., 1993 has incorporated the word 'to be given autonomy by the University for academic, financial and administrative matters relating to SAP within two years of the sanction'. On this point of contradiction in the contents of the letters of 8th Nov, 93 and 10th Jan, 1994, the Committee decided as under :-

(1) Clarification be sought for from the UGC as to the academic autonomy and the examination reforms spelt out in the letter of 8th Nov., 1993

(2) The Committee with one view decided to have a sub-committee of those departments who had applied for SAP.

Initially six departments, viz. Botany, Political Science, Mathematics, Zoology, History and Chemistry have sent their proposals to the UGC for SAP. out of six, the following heads of departments and coordinators for SAP are to form the sub-committee Chemistry, History, Botany and Zoology.

Therefore, the heads of these departments will be the members of the sub-committee with the respective SAP coordinators, and the Committee decided that the Chairman of the sub-committee will be Prof. H. Junjappa, to examine the Autonomy spelt out in the UGC letters.

Sd/-
(S. Rynjah)

COPY/

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ANNEXURE 'G'

NORTH EASTERN HILL UNIVERSITY,
SHILLONG

Prof. H. Junjappa,
Department of Chemistry

4th September, 1996
Chem No.4456

To

The Vice-Chancellor,
NEHU, Shillong.

Sub :- Autonomy : SAP Departments

Dear Sir,

Enclosed is minutes of the autonomy deliberations of the SAP departments and the corresponding Heads and Co-ordinators.

The minutes may be considered as confirmed since I have not received any comments from any member.

I request you kindly to place them for approval of the Academic Council, for their implementation.

Thanking you.

Yours sincerely,

Sd/-

(H. Junjappa).

Members

1. Prof. R.S. Tripathi
2. Prof. R.R. Mishra
3. Prof. K. Chatterjee
4. Prof. P. Tandon
5. Prof. V. Tandon
6. Prof. H. Ila,
7. Prof. M.K. Choudhuri
8. Prof. Imdad Hussain
9. Prof. Milton Saagma
10. Prof. H. Junjappa (Chairman).

MINUTES OF THE SAP DEPARTMENTS

After deliberations in the meeting of the "SAP Committee for Autonomy" held on 9th September, 1994 and 11th July, 1995, the Committee made the following recommendations.

1. Academic Autonomy:

- (a) The SAP Departments will have the total autonomy on research programme.
- (b) The Department may also have autonomy to reorient its syllabus and introduce programmes on teaching reforms.
- (c) In view of the time bound programmes of the SAP Departments they may have freedom to make direct admission to Ph.D. programme.
- (d) Any number of NET qualified fellows at both doctoral and post-doctoral levels will be admitted in the SAP Departments - depending on the infrastructure and faculty strength available. In the absence of NET qualified candidates, non-NET candidates can be appointed by the SAP Co-ordinator.

2. Financial Autonomy :

- (a) The SAP Departments will enjoy full control on the expenditure of the SAP ~~xxx~~ grants including over heads. The ~~xxxx~~ Co-ordinator will be the sanctioning and operating authority of the SAP grant. The accounts will be maintained in the University as is done for the other Departments. The SAP Departments will maintain all the ledgers. The SAP Departments will decide about the expenditure deviations of unspecified and contingency grants as it feels fit.
- (b) As per terms and conditions governing SAP programme of UGC separate accounts should be maintained for each Department.

3. Administrative Autonomy :

The Co-ordinator will conduct the SAP programme in consultation with the Head of the Department.

The Coordinator and the Head of the Department will run the programme through the cooperation of the University administration.

4. The SAP Departments should be provided additional facilities as follows.

(a) Laboratory for Research :

Each member should be given minimum unit of accommodating four Research Scholars and a maximum of two such units for Readers and three such units for Professors.

(b) Teaching Laboratories:

For M.Sc. practicals there should be at least 2000 sq. ft. floor area to accommodate about 30-40 students.

(c) Library :

A floor area of 4000 Sq. ft. is required to house the library of Science Departments.

5. (a) University should create separate cell in administration to deal with the transactions of SAP Departments.

(b) The Research Scholars of SAP Departments should be provided with hostel facilities on priority basis.

....

EXTRACTS FROM MINUTES OF THE 74TH MEETING OF THE
DEAN'S COMMITTEE HELD ON 21ST SEPT., 1995 IN THE
SEMINAR HALL OF T E MAYUREHANJ COMPLEX NEHU.,
SHILLONG.

- VI. On the request for Autonomy of the Special Assistance to Research Programme (SAP) of the Deptt. of Chemistry the Committee decided to place the proposal to the next Academic Council.

- (v) Identification of the allied and cognate subjects for constitution of the Board of Post-Graduate Studies-

Consequent upon the re-organisation of schools, the allied and cognate subjects have been reviewed by the Academic Council in its 52nd meeting and subsequently approved by the Executive Council. The list of allied and cognate subjects for the following Department is yet to be approved by the Council.

<u>Name of the Department</u>	<u>Courses within the School (Clause 1(iv) of OA-8</u>	<u>Course outside the School (Clause 1(v) of OA-8</u>
1. Department of Geology	1. Geography 2. Anthropology	1. Zoology 2. Botany 3. Forestry 4. Chemistry 5. Physics.

The matter is placed before the Council for Consideration.

(vi) Increase in intake capacity of Students
in the Department of Sociology.

The Head, Department of Sociology, NEHU, Shillong has intimated the Vice-Chancellor, that due to the increasing number of under-graduate students taking Major in Sociology each year the department feels that it is now necessary to formally increase the intake capacity of Students from the next academic Session.

In a letter to the Deputy Registrar (Conf.) dt. 27.5.96 the Head, Department of Sociology has requested that necessary formal approval be accorded to increase the intake capacity of the students in Sociology from 30 to 40 from the next Semester.

The matter is placed before the Council for consideration.

M.A. PROGRAMME IN KHASI (1972-73)

SEMESTER-I

Course I: Linguistics-I

100 Marks.

1. Language and Linguistics

- 1) Definition and scope of linguistics.
- 2) Schools of linguistics.
- 3) Human language versus animal communication.
- 4) Language structure: morphology and syntax.

2. Syntax and Semantics

Traditional Grammar, IC Analysis, Phrase structure Grammar, Transformational Generative Grammar.

3. Aspects of Khasi Syntax

References

- 1) J. Aitchison, General Linguistics (Bath: The English Universities Press Ltd.
- 2) R.W. Langacker, Language and its Structure (New York: Harcourt Brace Jovanovich Inc., 1973).
- 3) D. Crystal, Linguistics (Penguin Books, 1971).
- 4) N. Chomsky, Syntactic Structures (The Hague: Mouton, 1957).
- 5) _____, Aspects of the Theory of Syntax (Mass: MIT Press, 1965)
- 6) A. Radford, Transformational Grammar: A First Course (London: Cambridge University Press, 1990).
- 7) N. Krishnaswamy, An Introduction to Linguistics for Language Teachers (Bombay: Somaiya Publications, 1971)
- 8) F.W. Householder, Syntactic Theory: 1) Structuralist (Penguin Books, 1972).
- 9) P.H. Mathews, Morphology (Cambridge University Press, 1974).
- 10) Relevant Khasi Texts.

Course II: Khasi Poetry I from 1888-1940

--- 100

- * Development of Khasi Poetry upto 1940 (1940)
- 2) Amjad Ali : "Synshar Riw Khasi", "Ieng Riw Khasi"
- 3) Morkha Joseph : "U Jumai Bah ka Ri Khasi".
- 4) Soso Tham : Chapter 6-10
- 5) L. Lewis : "Ka Pyrem", "Ka Tlang".
- 6) H. Elias : "Na Wai Khyrwi", "Dymmiew Rngi".
- 7) P. Gaphoh : U Sier Lapalang
- 8) B. Thangkhiew : "U Nongtem Duitara".

Course III: Khasi Literary Criticism

- 100

- 1) Development of Literary Theory and Criticism to-date
- 2) E.Chyne : "Ka Jingaikhmat".
- 3) H.Elias : "Shaphang Ka Poetry".
- 4) P.Gatphoh : "Balei ba ngi Dei ban Pule ia ka Poetry
- 5) Owen Rowie : Ka Literature
- 6) F.M.Pugh : "Ha ki Nongpule" in Ka Sawangka ia ki Saw Ngut ba Iap Mynsaw.
- 7) B.L.Swer : Katto Katne shaphang ka Lyric
- 8) ~~H.K. Sten~~ : ~~Shaphang Ka Novel~~
- 9) J.S.Shangpliang : Ki Snap Ka Novel(excluding Ch.6,7).

Course IV: Khasi Fiction I

- 100

- 1) Survey of the Development of Khasi Fiction upto 1970.
 - 2) J.Roberts : U Moses
 - 3) H.C.Roy : U Kausik
 - 4) P.Gatphoh : Ka Lukhimai
 - 5) S.Q. Sumer : Ka Hima Ka Jingieit
 - 6) S.J.Duncan : "Phim Ngeit?" "Wat ai Nishan ia Kiwei".
-

Course V: Linguistics II

Phonetics and Phonology:

1. The production of speech: acoustic, articulatory, auditory
2. Description of consonants: English and Khasi
3. Description of vowels: cardinal and secondary in English and Khasi
4. IPA symbols and transcription: English
5. Phonological rules and rule ordering
6. Aspects of Khasi Phonology

Reference:

1. D. Abercromble, Elements of General Phonetics (Edinburgh University Press, 1967)
2. Broshanan and Malmberg, Introduction to Phonetics (London: Cambridge University Press, 1970)
3. R. Lass: Phonology: An Introduction to Basic Concepts (London: Cambridge University Press, 1984)
4. E.C. Fudge, Phonology. Penguin Modern Linguistic Readings (Harmondsworth: Penguin Books Limited, 1973)
5. J.D. O'connor, Phonetics (Harmondsworth: Penguin Books Ltd. 1973)
6. H.W. Sten, Shaphang Ka Ktien Khasi (1991)

Course VI: Khasi Drama I

- 100 Marks

1. A Survey of the Development of Khasi Drama up to 1967
2. Hari Charan Roy, Ka Savitri
3. Dinonath Roy, U Tip Sngi
4. Mondon Bareh, U Mihsngi
5. Peace Roy Pariat, Ka Shangkhawiah ki Rang
6. F.M. Pugh, Ka Sawan ka ia ki San Ngut Baiap

Course VII: Literary Theory & Criticism

- 100 Marks

1. Aristotle, The Poetics
2. John Dryden, An Essay of Dramatic Poesie
3. William Wordsworth, Preface to the Lyrical Ballads
4. Mathew Arnold, "The Study of Poetry" and "The Function of Criticism at the present time"
5. T.S. Eliot, "Tradition and the Individual Talent"

Course VIII: Culture in Khasi Literature I

- 100 Marks

1. Definition and Dimensions of Culture
2. Jeebon Roy, Ka Niam jong ki Khasi, "Ka Jingiakhain sang ban ia poikha", "Kaba ia iehnoh tnga", "Haba thaw iing", "Haba iap mynsaw"
3. R.S. Berry, Ki Jingsneng tymmen, Part II
4. Rabon Sing, Ka Kitab Niam Khein ki Khasi, "Shaphang ki Ksuid", "Ki Ain ka Ri Khasi Hyndai", "Shaphang ki Adong Shnong"
5. Sib Charan Roy Jait Dkhar, Ka Niam Khasi ka Niam Tip-Blei Tip-briew, "Tip-Blei", "Ka Pyrthei"
6. G. Costa, Ka Riti jong ka Ri Laiphew Syiem, Part II "Ka Bishar Khasi", "Ka Khnam ka Ryntieh"
7. H. Lyngdoh, Ka Niam Khasi Ch.10, "Longkur Longjait", "Longkha Longman", "12 Ki Niam ki Rukom Iohpateng Hiarpateg"

SEMESTER III

Course IX: Literature in Translation - 100 Marks

1. Bible, Ka Ka Kitab u Job
2. J. Bunyan, Ka Jingiaid u Pilgrim
3. S.J. Duncan, U Androklis bad u Sing
4. J. Kharmih, U Mayor ka Casterbridge
5. B.L. Swer, U Syien Oedipus

Course X: Linguistics III - 100 Marks

A. Language Teaching:

1. Relationship between Linguistics and Language Teaching
2. Language Acquisition and Language Teaching
3. Aims and Principles of Language Teaching
4. Methods of Language Teaching
5. Contrastive Analysis
6. Technological Aids currently used in Language Teaching

B. Stylistics:

1. Definition of Stylistics
2. The Theories of Style
3. The uses of Stylistics in literary language analysis and language teaching
4. Vocabulary
5. Language register

References:

1. M.A.K. Halliday, Angus McIntosh, Peter Stevens, The Linguistics Sciences and Language Teaching (London: ELBS, 1971 or latest ed.)
 2. W.M. Rivers, Teaching Foreign Language Skills (Chicago: University of Chicago Press, 1968)
 3. Harold B. Allen, Applied English Linguistics (New York: Heredith Publishing Co. 1964)
 4. A. Chandrasekhar, A New Approach to Language Teaching (Delhi: The Linguistic Circle of Delhi, 1965)
 5. Robert Lado, Language Teaching (New York: McGraw Hill Inc, 1974)
 6. G.W. Turner, Stylistics (Harmondsworth: Penguin Books Ltd. 1973)
 7. Allen Warner, A Short Guide to English Style (London: OUP, 1961)
- **As far as possible the latest edition of the text should be consulted.

Course XI: Khasi Fiction II - 100 Marks

1. The Development of Khasi Fiction from 1971 to date
2. D.T. Laloo, Ka Lasubon
3. W. Tiewsoh, Kam Kalbut
4. L.H. Pde, Tang Ma Phi Khun Baieit
5. H.W. Sten, Kwah Bymjukut
6. Shanphrang Synrem, Ka Palong ka Jingieit
7. Remy Fancon, Ka Dak Bangla

Course XII: Khasi Poetry II - 100 Marks

1. Soso Tham, "Ka Biria u Bieit"
2. V.G. Bareh, "Ka Lynti Umiam", "Ka Wah Umkhrah"
3. B.C. Jyrwa, "U Klew"
4. D.S. Khongdup, Sonnets I to X
5. F.M. Pugh, "Ka Phawar Pharshi", "Ka Procession Bah"
6. H.W. Sten, Ka Burom bala Jah Kitab III, "U Premkar"

SEMESTER IV

Course XIII: Khasi Drama II - 100 Marks

1. A Survey of the Development of Khasi Drama from 1967 to date
2. D.S. Khongdup, U Baieit Donskhor
3. S.J. Duncan, Ka Tiew Larun
4. A. Jala, Haba ka kupar jot ka dawa
5. R. Fancon, U Kiang Nongbah
6. R. Nongkynrih, Ka Bniat namar ka bniat
7. L.H. Pde, Yn Map?

Course XIV: Culture in Khasi Literature II - 100 Marks

1. H.O. Mawrie, Ka Longiing longsem u Khasi, "Ka iing bad ka jingbuh bynta jingsam bynta", "Ka iing bad ka imlang sahlang", "Ka iing bad ka Rongbiria"
2. R.T. Rymbai, Pynieng la ka Rasong, "Ka Tynrai jong ka culture u khun Khasi Pnar"
3. R.S. Lyngdoh, "Ka Dorbar Blei" from Ka Thiar ki Nongthoh, Vol.VI (KAS Pub)
4. E. Weston Dkhar, Ka Sain Purkhat Synshar Khadar u Khasi, "Ka Dorbar Khasi", "Kumno la pynlong Dorbar", "Kumno ka synshar Syiem, synshar Dolloi synshar Lyngdoh ka wan"
5. Sweetymon Rynjah, Tyngkai la ki symbai, "Ka longiing longsem u Khasi", "U khun ki briew - U kpa ka iing" "Ka kha ka Man - Ka kmie ka iing"

Course XV: Linguistics IV - 100 Marks

(Sociolinguistics)

1. Definition and Scope of sociolinguistics
2. Language Choice and international sociolinguistics, code switching, code mixing, borrowing, linguistics constraints on code change, diglossis, high and low varieties.
3. Language variation and dialectology: Language and dialect, regional dialects, isolosses, spatial diffusion, wave model, social dialects, creole, pidgin.
4. The sociology of language: bilingualism, micro-sociolinguistics, macro-sociolinguistics, language standardization, language planning and language policy.
5. Some aspects of sociolinguistics in Khasi.

References:

1. R.A. Hudson, Sociolinguistics (Cambridge: Cambridge Univ.Press)
2. Roger T. Bell, Sociolinguistics: Goals, approaches & Problems (London: B.T. Batsford Ltd.)
3. D. Hymes, Foundations in Sociolinguistics: an ethnographic study, Trivistock Publications
4. P.P. Gilioli, Language and Social Context (Penguin Books Ltd.)
5. J.K. Chambers and P. Trudgill, Dialectology (Cambridge CUP)
6. P. Trudgill, Sociolinguistics (Penguin Books Ltd.)
7. J.A. Fishman, Reading in the Sociology of Language, (The Hague: Mouton)

Course XVI: Khasi Poetry III - 100 Marks

1. Survey of Khasi Poetry from 1985 till date
2. Desmomid L. Kharmawphlang, U Mawshamok, "Ka jingshahjop", "Ka jingdwai ka thei Nuti", "Ngam lah jubab", "Na ka Nongbah da jingieit"
3. Bevan L. Swer, Ki Dew ka Dohnud, "Meingi bakthang", "Ha sla Khyndew", "Na ka bynta jongnga", "Ia I Pansy", "Ka Blei"
4. Palcal Malngiang, Ka Snap u Longshuwa, "Ba la sep ka Sngi", "Mangkara", "Tip briew"
5. Sondar S. Majaw, Ka Tragoidia bad ki poem, "U Saipan Bamsap", "I Trep Mana"

KHASI DEPARTMENT

Environmental Awareness in Khasi Literature - 100 Marks

Course Content:

Poetry

1. V.G. Bareh, Ki Poetry Khasi, "Ka Wah Umkhras", "Hapdeng ki 'Law Kynjah ka Tlang"
2. S.S. Majaw, Ka Tregoidia bad ki Poim, "Ummat ka Jingieit"
3. C. Wolflang, Sur Phalang Jingmut, "Wah duid Rupa"

Prose

1. P.G. Gatphoh, Umjer Ksiar, "U pujer u 'puthoh ka Meirilung"
 2. H.O. Mawrie, Ka Pvrkhat u Khasi, "U Khasi bad ka Mariang" (Chaps 15 & 15)
 3. Sorendro Khongsit, Ki Dieng bad ka Culture jong ngi
 4. Dhirendro Ramsiej, Ka Mariang bad u Khasi, "Ka Mariang ha ka rukom pyrkhath u Khasi"
 5. L.H. Pde, Ka Law Lyngdoh bad ka Knia phod-sohlang Hima Mawphlang (Only Part I)
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