

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

ELEVENTH MEETING
of the
ACADEMIC COUNCIL

A G E N D A

Friday, the 11th December, 1981
Shillong

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

AGENDA FOR THE 11TH MEETING OF THE ACADEMIC COUNCIL

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Item No. 1

Confirmation of the Minutes of the
Tenth Meeting of the Academic Council
held on 11th May, 1981 :

The comments on the Minutes of the Tenth Meeting of
the Academic Council held on 11th May, 1981, were received
from the following members.

The Council may kindly consider the comments and
confirmed the Minutes.

<u>Name</u>	<u>Comments</u>	<u>Resolution as recorded</u>
1. Shri-D.P.Chakrabarti	Resolution No.AC:10:81: 04(j)	Resolution No. AC:10:81:04(j) -
	There was no proposal for inclusion of all the Chairmen of the Boards of Under-Graduate Studies in the Committee.	(iii) All Chairmen of the Board of Under- Graduate Studies.
2. Shri H.W.Sten -	Resolution No. AC:10:81:04(m)	
	The word "Shillong" be inserted between the words 'in' and 'Meghalaya' appearing in 3rd line of the Minutes.	
3. Shri H.W.Sten -	Resolution No. AC:10:81:04(j)	Resolution No. AC:10:81:04(j)
	The Chairman for each subject shall be invited as and when the Committee meets to discuss that particular subject.	(iii) All Chairmen of the Boards of Under-Graduate Studies.

Item No. 2

MATTERS ARISING OUT OF THE MINUTES :

- (a) To consider the Report of the Committee appointed by the Academic Council relating to conduct of Examinations -

The Report of the Committee appointed by the Academic Council to go into the various anomalies relating to the conduct of Examinations and also procedures to be followed is placed before the Council for consideration. (Annexure - 1)

- (b) To consider the Report of the Committee appointed by the Academic Council to go into the present system of Examinations and assessment at the Master's Degree level -

The Academic Council vide Resolution No. AC:10:81:02 (a)(iii) had constituted a Committee to go into the present system of Examinations and assessment at the Master's Degree level.

The Report of the Committee is placed as Annexure - 2 (Page - 8) for consideration of the Council.

The Committee appointed by the Academic Council at its meeting held on 11th May, 1981, to suggest ways of improving the method of conducting examinations at the under-graduate level, met on Tuesday, the 15th of September, 1981 in the Office-Chamber of the Vice-Chancellor at Shillong.

The following members were present.

1. Dr S.C.Banwar, Acting Vice-Chancellor -- in the Chair
2. Rev. Mother M. Anne
3. Mrs. Sujata Miri
4. Principal L. Sailo
5. Principal R.N.Upadhyaya
6. Prof. D.P.Singh
7. Prof. T.S.B.Narasaraju
8. Shri D.P.Chakravarty
9. Shri I. Ahmed
10. Shri Buragohain
11. Shri Saingenga
12. Dr R.S.Lyngdoh
13. Dr S.N.Guha Thakurta
14. Dr A.C.Sinha
15. Dr A.P.Sinha
16. Dr Dalthantluanga
17. Dr R.R.Mishra
18. Prof. A.L.Verma
19. Prof. M.K.Khare
20. Dr S.S.Khare
21. Dr R.L.Walli
22. Shri B.B.Kumar
23. Dr J.B.Bhattacharjee

2. The Committee discussed the various aspects of the conduct of Examinations and went into details regarding the present procedures being followed, difficulties experienced and the lacunae noticed. The consensus of opinion was that there was need to overhaul the examination system with a view to streamlining the procedures and increasing its efficiency.

Contd/...

3. The Committee felt that while it could make some general suggestions, the Committee should form a sub-committee from amongst themselves which should go into details and make specific recommendations for improvement of the method of conducting examinations. The following sub-committee was constituted for the purpose:

1. Dr S.C. Banwar, Acting Vice-Chancellor as Chairman.
2. Principal Rev. Mother Anne
3. Principal L. Sailo
4. Principal R.N. Upadhyaya
5. Shri D.P. Chakravarti
6. Shri E.P. Kumar
7. Shri I. Ahmed
8. Shri Buragohain
9. Shri Saingenga
10. Dr T.S.B. Narasaraju
11. Dr R.L. Walli
12. Dr S.N. Guha Thakurta.

It was decided that the sub-committee should meet the same day at 3.00 p.m.,

4. The Committee also made the following general suggestions for the consideration of the sub-committee:

- (i) that every question paper be moderated before it is sent to the Press.
- (ii) there shall be moderation board in each subject.
- (iii) the moderation board shall consist of the Chairman of the Board of Under-Graduate Studies concerned and two members nominated by the Vice-Chancellor.
- (iv) necessary guidelines for the working of the moderation board shall be laid down.
- (v) the term of office of the members of the moderation board shall be one year but the members shall be eligible for re-appointment for another term.
- (vi) there should be a two-tier system of appointing examiners, i.e., Examiners and Head Examiners.

Contd/...

- (vii) two sets of paper setters be selected for each subject/paper. Both sets of question papers be moderated and kept in two separate envelopes. Vice-Chancellor may choose and send it to Press.
- (viii) each examiner be allotted not more than 200 scripts.
- (ix) as far as practicable, the Head Examiners be asked to complete their work in the University itself.
- (x) the panels of examiners, paper-setters and moderators as recommended by the respective Board of Under-Graduate Studies be approved by the Academic Council as required under the Ordinance of the University.
- (xi) University should make every attempt to introduce these changes from the 1982 examinations. The Vice-Chancellor was authorised to go ahead and introduce some of them in 1982 examination.
- (xii) instead of the present system of randomisation code numbers/index numbers be introduced.
- (xiii) the result of all under-graduate examinations be moderated before they are published, by a Board consisting of a few Principals of affiliated colleges and other members nominated by the Vice-Chancellor. Guidelines regarding the working of this Board be laid down.

5. The minutes of the sub-committee are enclosed as Annexure - I.

A Sub-Committee of the Committee constituted by the Academic Council, at its meeting held on 11 May, 1981, met at 3.00 p.m. on the 15th September, 1981 in the Office-Chamber of the Vice-Chancellor. The following were present :

1. Dr S.C. Banwar, Acting Vice-Chancellor - in the Chair
2. Rev. Mother M. Anne
3. Shri L. Sailo
4. Shri R.N. Upadhyaya
5. Shri D.P. Chakravarti
6. Shri B.B. Kumar
7. Shri I. Ahmed
8. Shri Buragohain
9. Shri Saingenga
10. Dr T.S.B. Narasaraaju
11. Dr R.L. Walli
12. Dr S.N. Guha Thakurta.

1. The Sub-Committee discussed the general suggestions made by the Committee, constituted by the Academic Council earlier in the forenoon and decided that all these suggestions be accepted.

2. The Sub-Committee recommended that the necessary rules, regulations guidelines etc., be drawn up as early as possible in order that the recommended measures be put into practice atleast from 1983.

3. The Sub-Committee suggested the following steps regarding appointment of examiners and paper-setters:-

Pre-University Examination - Paper-setting

- (i) Both internal and external teachers be appointed as paper-setters.
- (ii) A paper-setter must be a teacher in the subject concerned with a minimum of 10 years of experience in teaching that subject. However, the Vice-Chancellor may relax the condition of experience in exceptional circumstances/cases.
- (iii) the teaching experience of a paper-setter should be with regard to under-graduate teaching.

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Pre-University Examiners

- (i) A P.U. Examiner must have atleast five years of teaching experience at under-graduate level in the subject in which he is appointed examiner.
- (ii) the examiners be appointed from amongst the teachers of affiliated colleges except in special cases the Vice-Chancellor may appoint an examiner from amongst outside teachers.

B.A./B.Sc./B.Com. - Paper-setters

- (i) Both internal and external paper-setters may be appointed.
- (ii) A paper-setter must be a teacher in the subject with a minimum of 15 years of teaching experience and he must have taught the subject atleast for two years immediately preceding his appointment.
- (iii) In exceptional circumstances, the Vice-Chancellor may relax the condition regarding experience.

B.A./B.Sc./B.Com - Examiners

- (i) An examiner must have atleast ten years of teaching experience in the subject at under-graduate level.
- (ii) In case of post-graduate teachers the minimum experience be five years.
- (iii) The criterion relating to teaching experience may be relaxed by the Vice-Chancellor in exceptional circumstances.

Practical Examinations

1. That no question papers be set for practical examination
2. That Board of Under-Graduate for Science subjects set a non-confidential standard question paper for each practical examination.

Introduction of the System of Re-valuation

The Sub-Committee recommended that the system of revaluation of answer scripts be introduced and the rules regarding this be framed.

Recommendations of the Committee constituted by the Academic Council to go into the present system of Examinations and assessment at the Master's degree level in NEHU.

The Committee met the entire faculty of NEHU, one School at a time, to ascertain their views on the matter. Statements in this regard, from Departments, Schools and individual teachers are enclosed herewith.

The Committee met at 11 a.m. on 27 August to assess the views emerging from its meetings with the faculty and to make suitable recommendations. The Committee is pleased to make the following recommendations :

(1) The present system of internal assessment should be abolished altogether. In making this recommendation the Committee was guided by the following considerations :
(i) emphasis on frequent tests is not conducive to the proper assimilation and absorption of the subject; this may hinder rather than promote the growth of creative thinking at least in some disciplines; (ii) the present library facilities are inadequate; (iii) the successful functioning of the present system requires the effective presence of an Academic ethos, which unfortunately is not there-not just in our university, but perhaps in most universities in the country.

(2) Instead of two examinations every year there should be one examination at the end of every year. However, it was also felt that if, in order to preserve the advantages of the present course structure, two examinations in a year were thought to be more suitable, then the present system of end-semester examinations (minus internal assessment) might be retained. Of course, one would have to weigh these advantages against the difficulties of conducting so many examinations, in the light of some the recommendations made below.

(3) All M.A./M.Sc/M.Ed/M.Com examinations should be centrally controlled by the Examination Department of the University, and this work should be the responsibility of a separate section of this Department.

(4) The selection of examiners and papersetters for the M.A./M.Sc. examinations should be on the same line as that for the undergraduate examinations.

(5) A suitable tutorial system should be devised so that students and teachers are able to interact continuously outside the formal limits of lectures.

(6) The University should prepare a calendar in the light of the recommendations made and must follow it, under all circumstances.

(7) Whatever examination system the University might eventually adopt, it should be uniformly applicable to all Schools of the University.

Professor H. Junjappa, one of the members of the Committee, did not agree with the recommendations made above. He was, therefore, requested to submit a note on his disagreement.

S/-

Convener

Convener's Report

The Committee met the entire faculty, one School at a time, on August 24, 25 and 26. There seemed to be a fairly wide divergence of views - sometimes between Departments within a School and sometimes even within a Department - on the present system of evaluation in the University. The views ranged from "total abolition of the present system" to "total retention of the system".

It should, however, be noted that there exists a fair degree of diversity in the way that the present system operates. The one practice that is common to all Departments is that of the setting aside of 50% of the total marks for the sessional work done by a student during the semester, the rest of the marks being given on the basis of his performance at the end-semester examinations. The end-semester examination is however differently conceived in different departments. There are departments where questions for each course of study are sent externally, and answer scripts are also marked externally, while there are also departments where question setting as well as all evaluation is done within the department. Between these two extremes the following variants also occur : (i) questions for all the courses of study are set internally, but answer scripts for some of them are marked by external examiners; (ii) questions for some of the courses are set externally and answer scripts for them are also marked externally.

The following is a brief report of the views expressed at the various meetings that the Committee had with the faculty :

School of Social Sciences

The Departments of History, Sociology and Anthropology were in favour of retaining the present system with some important modifications. Some of the arguments advanced in support of the retention of the present system were

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(i) it keeps the students uniformly engaged in his curricular work throughout the semester; (ii) it also enables the student to get much more out of a teacher than in an alternative system and (iii) it is best suited for bringing out the academic potential of a student; (iv) it ensures a very close teacher-student relationship which is so vital for the academic growth of a student. However, all these departments also emphasized that some of the conditions necessary for the successful operation of the system do not obtain in this university; these are (i) easy availability of books in the library, (ii) adequate infrastructural facilities for the maintenance of records, conduct of examinations etc; and (iii) strict adherence to a time-schedule. They also agree that if the present system is retained, the weightage given to sessional evaluation must be substantially reduced. The Committee requested these Departments to give a detailed statement of the infra-structural and other changes, which, in their opinion, will be required to operate the present system successfully. (This statement has not, however, yet been received.)

The Departments of Economics, Political Science and Philosophy were in favour of the abolition of the present system and reversion to the annual system. Some of the arguments used were against the semester system as such. For instance, it was pointed out that the emphasis on frequent evaluation which is essential to the semester system, is detrimental to the overall academic growth of the student, as it does not give him sufficient time for absorption and creative retention. It was also argued that the ideal conditions for the successful working of the semester system cannot be guaranteed in a university like ours, and that in such a situation the present system is likely to do much more harm than good to the students. (In this connection two statements - one from Department of Economics and the other from that of Political Science are enclosed herewith). There seemed also to be a general agreement that, if in a changed system, it was thought necessary to retain sessional evaluation, the weightage given to it should be considerably less than at present.

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School of Environmental Sciences

This School consists, at present, of only one Department - that of Geography. This Department would like the present practice of semesterly examinations retained provided that there is no sessional evaluation and that all examination and evaluation are external. (A note from the Department to this effect ^{is} enclosed)

School of Physical Sciences

Here opinions varied a great deal and several different alternatives to the present system were suggested. The Department of Mathematics, however, expressed the unanimous opinion that the present system (in the Department) of sessional work and end-semester examinations conducted totally internally should be retained in its entirety. In the other Departments there seemed to be a genuine concern for the difficulties of ensuring the credibility of evaluation. Possible systems of checks and balances were suggested. It was suggested, for instance, that the syllabuses should be much more detailed (with number of contact hours being specified for each topic) than at present and that all question papers, while they should be set within the Department, must also be vetted by external examiners before they are accepted. A group of fourteen teachers from the Departments of Physics and Chemistry have also suggested suitable changes in this regard. Their statement is enclosed. They have also said that any system (meaning presumably the system of semesterly examinations and that of annual examinations) would be acceptable to them as long as the suggestions made by them are incorporated in it. They would also like the weightage on sessional evaluation considerably reduced.

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School of Life Sciences

This School unanimously expressed the following views:

(i) sessional evaluation should be abolished (ii) all answer scripts should be evaluated externally, (iii) the present system of semesterly examinations may be retained, but if this is difficult, for some reason, an annual examination system would also be acceptable. (Joint statement from the Departments of Botany and Zoology enclosed)

School of Languages

There seemed to be a consensus here for the abolition of the present system of sessional evaluation and semesterly examinations. (No statement received from the Department)

School of Educational Studies and Research

Here also there was a consensus in favour of the abolition of the system of sessional evaluation. They, however, thought that a suitable tutorial system could be devised to replace sessional evaluation.

Sd/-
Convener

NORTH-EASTERN HILL UNIVERSITY
Department of Economics

After considering all aspects of the problem, the Department of Economics has decided to recommend the discontinuance of the semester system of examination and adoption of the annual examination system instead. The main consideration for the view taken by the Department can be set out as below :-

1. The semester system presupposes a somewhat rigid academic schedule which is very difficult to adhere to in the prevailing circumstances in the University. Due to the delay in publication of the B.A. Results, the first semester invariably starts late which makes it impossible to provide 90 teaching days for the semester. As a result, either the teaching programme has to be terminated prematurely or the end-semester examination has to be postponed to the second semester which reduces the time available in the latter semester.
2. For a fresh student (especially if he happens to come from a relatively poor academic background), the semester system provides practically no time for acclimatisation. Almost immediately after joining the class he has to get started with a rather intensive teaching and particularly examination schedule even before he has had time to get adjusted to the requirements imposed on him by the relatively higher and more rigorous level of instruction that he had hardly been exposed to in his undergraduate studies. His task is made doubly difficult due to inadequate availability of books and other reading materials in the Library and even in the market. Almost all the energy and time of the students are used up in working out the academic 'logistics' of preparing and writing sessional tests without ~~having~~ him much time for extra-curricular activities. The annual system of examinations will help mitigate these problems at least to some extent. By providing a longer time span, this system has the potentiality of providing greater opportunity to the

student to gradually come to grips with his subject of study, develop a perspective on it and adjust himself to the constraint imposed by the lack of facilities in various directions.

3. The efficiency of the semester system is greatly reduced due to the inadequate academic, administrative and physical resources available to the Department. The rather low teacher-student ratio in the social science departments does not permit conducting of frequent sessional tests (with large number of students repeating each time) without hampering academic work. The paucity of administrative staff makes the work of keeping records and preparing results extremely demanding. The lack of physical infra-structure in terms of space and furniture creates problems of accommodating students properly.
4. A good number of students have voiced their misgiving regarding the justness of internal evaluation. In view of this, it may be worthwhile to look into the possibility and merits of some kind of impersonal evaluation. The annual system of examination will be a step in that direction.
5. While the Department expresses itself in favour of discontinuation of the semester system, they are of the opinion that some mechanism should be provided for monitoring the progress of the students in their respective courses of study. This, it is proposed, can be done through a well worked out programme of tutorials, seminars, etc., on the basis of which about 25% marks may be awarded in each year.
6. The Department also invited the students to give their views in the matter. The students, however, maintained that semester system might be retained provided (i) they are provided with necessary reading materials to cope with the schedule of examination, (ii) internal examination is taken once or twice during a semester and (iii) the same is conducted in an appropriate manner, etc.

Suggestions on the changes in examination pattern by the School of Life Sciences

The faculty members of the School of Life Sciences are of unanimous opinion that the internal assessment must be discontinued even if the system of two examinations in an academic session is retained. The scripts should be evaluated by the specialists in various disciplines, drawn from other Indian Universities. The details of the changed system, however, could be worked out once the system of examination proposed by the School is accepted by the University. If the holding of two examinations in a year presents any problems that are difficult to solve we are even ready to accept annual examination system. However, we feel that there should be a uniform examination pattern at the University level.

For introducing annual examination system, we plead that well tried ordinances/rules of any established University should be followed to start with.

Sd/- M.K.Khare
25/8/81

Sd/- R.R.Mishra
25/8/81

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NORTH-EASTERN HILL UNIVERSITY
Department of Pol. Science
School of Social Sciences

Head of Department

No. PSc.30/D.NOTES/81-41-639
August 28, 1981.

Dear Dr Miri,

As desired by you, I am enclosing my comments on the Semester System. I have also requested my colleagues to forward their comments to you.

Yours sincerely,

Sd/- R. L. Walli.

Encl: a.a.

To

Dr M. Miri
Deptt. of Philosophy
Convener,
Semester System Review Committee,
NEHU, Shilong.

COMMENTS ON THE SEMESTER SYSTEM

I am listing below a few reasons in support of my view that the Semester System of examination should be replaced by annual system of examination.

- (1) We get students with highly varied grounding in the subject. Inevitably an overwhelming majority of them need a much more concentrated exposure to basic concepts at the Post-Graduate level. Given the short duration of a semester (Particularly the First Semester), this is not possible.
- (2) The semester system calls for, inter-alia, circulation of adequate reading material among students for which there are no facilities.
- (3) In the existing state of affairs, the individual Department are saddled with the task of maintaining records of Internal and End-Semester grades/marks in respect of regular students and repeaters. Due to limited secretarial staff, this task is becoming almost unmanageable.

- - -

To

The Convenor,
The Examination
Reform Committee,
NEHU, Shillong.

Subject : Semester system should remain or replaced by annual
examination

Dear Sir,

After discussing the matter in the Faculty meeting it was resolved that the Semester System will be retained with the provision that internal assessment will be abolished and the evaluation will be done entirely by external examiners for all the Semesters.

With kind regards,

Yours Sincerely,
Sd/-
Dr. R.K. Rai,
Head,
Department of Geography,
NEHU : Shillong.

Suggestions For Evaluation Procedure

We the following faculty members of the School of Physical Sciences would like to propose the following system of examination for the M.Sc. programme.

We feel that the following are the shortcoming in the present system which is being pursued in the various departments of our University.

1. Though the syllabi for various courses are approved by the Post Graduate Boards & School Boards, there is no impartial and independent way of checking whether all the topics in the syllabus are covered & taught properly. Since the teaching himself sets the question paper and evaluates the answer-scripts, one can conveniently avoid all those topics which have not been covered in the class.
2. There is always a scope for giving uniformly inflated grades/marks or uniformly poor grades/marks which is unfair and goes unchecked.
3. In order to please the students, the instructor may set substandard questions so that everybody gets high marks which may affect other teachers adversely.
4. Partiality in the evaluation may be very difficult to check in the present system.
5. There is a possibility for undue pressurisation of teachers to give high marks or grades.
6. At present there is no independent external assessment of the standard of teaching and the evaluation scheme followed by us.
7. Hence we suggest the following alternatives to minimise the above mentioned problems in the existing system to the committee appointed by the Academic Council.

Suggestions

The major difficulties being faced are due to the present evaluation procedure and are not really the defects of semester or yearly system of teaching programmes. We, therefore, propose the following scheme of evaluation:

1. For each course, there should be an external evaluation for the final examination.

The weightage for the external evaluation may be 70% while for the internal assessment, it can be 30%. The procedure for internal assessment may be worked out by the School concerned. For external evaluation, the following procedure is suggested.

(i) A question bank can be prepared for each Course by the departments based on the last few years' question papers or a set of model questions can be suggested which will reflect the trend of our teaching and emphasis on various aspects of the course, which may be sent to the paper setters.

(ii) A comprehensive syllabus for each course alongwith a complete set of text-books and references for each sections of the course may be sent to the paper setter.

(iii) A panel of examiners and paper-setters for each course can be decided by the department in consultation with the concerned instructors for the course. To avoid delays, the paper-setters can be requested to send the cyclostyled copies of the question papers.

(iv) Normally, the paper-setter should also evaluate the answer-scripts and his/her consent to act as examiner may be requested at the time of paper setting. In case of inability of the paper setter to act as examiner, other members from the panel can be requested.

2. For Practical Examination, similar procedure may be followed as far as internal and external evaluation is concerned.

During the final examination, there should be atleast one internal examiner and one external examiner. In case the external examiner does not turn-up on the day of examination, one of the teachers of the department may be kept as a stand-by to conduct the examination.

3. There may be a provision for scrutiny and re-evaluation of answer-scripts at the request of an examinee.

4. The recommendations of the sub-committee should be circulated among all teachers for comments before being placed in the A.C./E.C. for approval.

5. If the above proposal is accepted, the modalities of implementation can be worked out at School level.

We also feel strongly that there should be uniformity in the evaluation procedure atleast at the School level.

If the above scheme of evaluation can be implemented effectively, any system of teaching would be acceptable to us.

Sd/- M.F.Mahajan (Chemistry)

Sd/- A.K.Medhi (Chemistry)

Sd/- A.L. Verma (Physics)

Sd/- K. Ismail (Chemistry)

Sd/- R.K. Poddar (Chemistry)

Sd/- K.K.Divivedi (Chemistry)

Sd/- R. Singh (Physics)

Sd/- J.Subramanian (Chemistry)

Sd/- S.N. Bhat (Chemistry)

Sd/-

Sd/- Y.S. Jain (Physics)

Sd/- D.T.Khating (Physics)

Sd/- F.N. Pandey (Chemistry)

Sd/- M.K. Choudhury (Chemistry)

S

SYSTEM OF EDUCATION : SEMESTER OR ANNUAL EXAMINATION SYSTEM

Taking a major decision like this, our main object should be to find out what is the best system of education for the students and for the country. Once we agree that a particular system is the best, we should try to impart that system of education by impressing upon the authorities concerned to create all the necessary infrastructure.

We have before us two systems of education- Semester System and the Annual Examination system. While trying to find out which is the better system, we have to analyse the merits and demerits of both the systems.

1. Semester system has two ways of assessments, namely, internal assessment consisting of tests, assignments and seminars, and external assessment or the end semester examinations.

In an annual examination system, the only measuring rod is the annual examination.

Semester system demands constant studies and works from the students because of its nature of assessment, and thereby keeps the students busy throughout, whereas, in the annual examination system, students are prone to leave everything for the last moment of examination.

2. In view of this continuous assessment system, the students are to be in touch with the teachers, Here the teacher can play a vital role and be his friend, philosopher and guide. In guiding students, personal touch is more effective than eloquent lectures.

In an annual examination system, a teacher comes to the class and delivers lectures for about 45 minutes or one hour, but how many students listen? In P. G. classes, students should be doing more studies in the library than listening to lectures.

3. In a semester system, it is not possible to admit a large number of students because of the continuous system of evaluation. Therefore, individual attention can be paid to each and every individual student. This is not possible in the case of annual examination system.

4. In a semester system, even if a student falls ill during tests/end of semester examination, one can repeat the course without losing any time. Moreover, there is practically no scope for the students to pass by chance. In the annual examination system, annual examination being the only criterion in assessing the intelligence of the students, even a good student might fail. A good student might fail ill during examination or before examination, or at the last moment, ~~kk~~ he might simply mug up a few topics, in which case, he might fail. Even a bad student might do better than a good student. Chance can play a big role in this system.

5. In a semester system, percentage of failure is low because of its scope for improvement and repetition of courses, whereas, in the annual examination system, percentage of failure is always high. This happens because the course is lengthy and there are only about ten or twelve questions out of which one has to answer only five or six. This is a waste of human resources.

6. Semester system gives ample scope to bring the syllabus upto date according to the needs of the region.

-; 23:-

7. In the semester system the student is treated more as a 'person' rather than an answer script as in the annual system.

In view of the above stated merits of the semester system, I, for one, am in favour of retaining the semester system.

- NOTE :-
- (i) It is presumed here that all the infrastructures are created to facilitate the smooth working of the semester system.
 - (ii) Annual Examination system here means the traditional system prevalent in our country.

Sd/-

(MILTON S SANGMA)

REPORTING ITEMS

Item No. 3

- (a) Provisional affiliation of Ist Year
Pre-University Class to Nongstein
College -

As per decision of the Academic Council vide its Resolution No. AC:10:81:35(ii) held on the 11 th May, 1981, the Vice-Chancellor has granted provisional affiliation to Nongstein College for starting P.U.(Arts) with the following subjects, English, History, Economics, Education, M.I.L.(Khasi), Political Science and Elective Khasi, from the academic session 1981-82.

The action taken by the Vice-Chancellor is reported to the Council for approval.

- (b) Provisional affiliation of Ist Year
Pre-University Class to Zunheboto
College, Nagaland -

The Academic Council at its tenth meeting held on the 11th May, 1981, had authorised the Vice-Chancellor to take action on the inspection reports of Colleges seeking affiliation for starting new courses. The Vice-Chancellor had considered the report on the Zunheboto College, and grant provisional affiliation to the College to introduce Ist Year Pre-University Class in the following subjects, Political Science, English, Economics, History and Geography, from the academic session, 1981-82.

The action taken by the Vice-Chancellor is reported to the Academic Council for information.

Contd/...

- (c) Permission to open Geography Honours
from 1981-82 session to Union Christian
College, Barapani -

As per decision of the Academic Council vide its Resolution No. AC:10:81:35(ii), held on the 11th May, 1981, the Vice-Chancellor had granted permission to the Union Christian College, Barapani, for starting Geography Honours from the academic session of 1981-82.

The action taken by the Vice-Chancellor is reported to the Council for approval.

- (d) Permission to open morning shift
from 1981-82 session to Post-
Graduate Training College, Shillong -

As per decision of the Academic Council at its meeting held on the 11th May, 1981, the Vice-Chancellor had granted permission to the Post-Graduate Training College, Shillong, to open morning shift from the academic session, 1981-82.

The action taken by the Vice-Chancellor is placed before the Council for ratification.

- (e) Provisional affiliation of Intermediate
Course of L.L.B. Degree to Kohina Law
College, Kohima -

The Academic Council at its meeting held on the 11th May, 1981, had authorised the Vice-Chancellor to take necessary actions on the inspection reports of colleges seeking affiliation for opening new courses. The Vice-Chancellor had accepted the inspection report on the Kohina Law College for starting Intermediate Course of L.L.B. Course and grant provisional affiliation for opening of the above Course in the Kohina Law College.

The action of Vice-Chancellor in granting provisional affiliation to Kohina Law College for starting Intermediate Course of L.L.B Degree is reported to the Council for information.

Contd/...

- (f) To report the action taken by the Vice-Chancellor in inviting experts for selection of teachers in Agricultural College -

A meeting of the Selection Committee to select a Reader and Lecturer in Animal Husbandry for the College of Agriculture, Medziphema, Nagaland, was fixed on 4th July, 1981, at UGC, New Delhi. Experts ~~of the~~ Selection Committee were invited from the panel approved for the purpose but none of them agreed to attend the meeting because of pre-occupation. The interview had been fixed and the candidates and other members were invited to the selection meeting already.

Considering the exigency of the situation, the Vice-Chancellor invited the following two experts in Animal Science, though their names were not included in the panel approved by the Executive Council and Academic Council. These experts attended the meeting held on the 4th July, 1981, at UGC, New Delhi, which made recommendations for appointment of teachers:

1. Dr. Daya Singh Balaine
Dean
College of Animal Sciences
Haryana Agricultural University
Hissar
2. Dr J.M.Lall
Scientist (Animal Science)
ICAR, New Delhi.

The above mentioned action was taken by the Vice-Chancellor in exercise of the powers vested in him under Section 12(3) of the Act, as exigency demanded immediate action in the interest of the University. The matter is reported to the Council.

The matter was also reported to the Executive Council at its last meeting.

(g) Taking over of Shillong Law College
by the University :

The taking-over of Shillong Law College by the NEHU as previously proposed by the Principa-1 of the College is let down by the Governing Body of the College. Hence, the matter may, perhaps, be treated as closed.

A copy of the Governing Body Resolution is placed as Annexure - 3.

Extract from the proceedings of the 56th meeting of the Governing Body of Shillong Law College held on 26th August, 1981 and confirmed on 28th September, 1981.

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Resolution No. 3 : The proposal for handing over the College to NEHU was discussed and the letters written by the Principal to University were also considered.

It was decided that the College should not be handed over to the University and that it should continue as under-graduate Law College as it has been from its inception for the time being.

And it was resolved that the Principal should inform the University that the Governing Body does not want to hand over the College to them and no further action can be taken in this connection.

The Principal did not participate in the above resolution which was voted in favour by the 5 remaining members of the Governing Body.

Sd/- Maham Singh
President

RATIFICATION OF ACTION TAKEN BY THE
VICE-CHANCELLOR :

- (a) Award of Ph.D. Degree to
Shri Donbor Roy Thangkhiew,
Department of Zoology -

On the recommendation of the Board of the School of Life Sciences and the Viva Voce Board, the Vice-Chancellor had conferred the award of the Degree of Doctor of Philosophy (Ph.D) to Shri Donbor Roy Thangkhiew of the Department of Zoology on the subject, "Studies on the Breeding and rearing of *Cyprinus Carpio Communis* L and *Labeo rohita* (Ham) in the altitudinal situations on Meghalaya alongwith an experiment on composite fish culture".

The action taken by the Vice-Chancellor may kindly be ratified.

- (b) Award of Ph.D. Degrees to the
candidates from the School of
Life Sciences -

Subject to ratification by the Academic Council, the Vice-Chancellor had ordered to declare for the award of Ph.D. Degree to the undermentioned candidates from the School of Life Sciences on the dates mentioned against their names :

<u>Name of the candidate</u>	<u>Department</u>	<u>Date of announcement of their results</u>
1. Shri Atar Singh Yadav	Botany	23 May, 1981.
2. Shri Bidhan Bhattacharya	Zoology	-do-

The Academic Council may, therefore, ratify the action taken by the Vice-Chancellor in pursuance of the Minute on Item No. 9 of the Tenth meeting of the Academic Council held on 11th May, 1981.

- (c) Provisional recognition to the various examinations conducted by the Manipur University :

Manipur University is a statutory University and had also been admitted to the membership of the Association of Indian Universities. The rules, regulations and syllabi of the various courses of study conducted by the Manipur University are the same with those of the Gauhati University. All the examinations and degrees of the Gauhati University have been recognised as eq-ivalent to the corresponding examinations and degrees of this University. As such, the Vice-Chancellor of this University has been pleased to accord provisional recognition to the various examinations and degrees conducted by the Manipur University, viz., P.U. (Arts, Science and Commerce); B.A., B.Sc., B.Com (Pass and Honours); B.T., B.Ed. , and LL.B. as equivalent to the corresponding examinations and degrees of this University.

The action taken by the Vice-Chancellor in this regard, may, therefore, please be approved by the Academic Council so that the provisional recognition so accorded may be regularised.

d) There are three students who have been admitted into the M.A. (English & Philosophy) course in this University. These students have passed the B.L.A. Degree conducted by the Spicer Memorial Colleg. Since the B.L.A. Degree of that College has not been recognised by this University the admission of the above students is purely provisional. As per informations received in this University the B.L.A. Degree is of 10+2+3 pattern which is one year longer than our B.A. Course in duration. Subject to the ratification of the Academic Council of this University the Acting Vice-Chancellor has been pleased to treat the provisional Admission of the above students as a special case and to regularise the admission with immediate effect without creating a presedent in future. The action taken by the Vice-Chancellor in this regard may therefore, please be ratified by the Academic Council.

e) The Principal of St. Mary's College Shillong, appeared to have offered both History and Geography as two separate and independent Teaching Specialisations to the present batch of B.Ed. students in St. Mary's College; which, as per the Dean (Education)'s endorsement, is contrary to the approved regulations. In his endorsement, the Dean had stated that a student can opt only one of the above mentioned subjects, i.e. he can opt either History or Geography and as such, the Teaching Specialisations viz. Hist/Geog as offered in St. Mary's College is contrary to this.

But as this matter was brought to the notice of the University by the aforesaid college only very recently vide their letters dated 19.10.1981 and 30.10.1981, this irregularity, probably caused due to misunderstanding, had however been treated as "an exceptional case without creating precedent in future" so that the batch of the affected students may not suffer.

The matter is placed before the Council for ratification.

DEFERRED ITEM

Item No. 5

- (a) Proposal for establishing a Department of Cartography in the University :

A request was received from the Surveyor-General of India (who is also the President, Indian National Cartographic Association) to establish a Department of Cartography in the University. The Vice-Chancellor called for comments on the matter from the Head of the Department of Geography, who recommended that the establishment of the Department of Cartography will help in training the students of the North-Eastern Region in the interpretation of aerial photographs, satellite imageries and meteorological forecasts and, therefore, be useful from the academic and applied point of view.

The matter was placed at the last meeting of the Council, but consideration of the same has been deferred. Hence, the matter is placed again for consideration of the Council.

- (b) To consider the representation made by the teachers of the Pachhunga University College for membership in the Academic Council

Consideration of this Item was deferred in the last meeting of the Academic Council. The Note on the same may be seen at Annexure -4.

In the meantime, the University has also received representation from the College of Agriculture, Medziphema, Nagaland on the same line and the letter may be seen at Annexure - 5.

The teachers of the Pachhunga University College, Aizawl represented to the Vice-Chancellor during his visit to the College on 7-9-March, 1981, that there was no representative of the teachers of the College in the Academic Council of the University and urged that such representative may be included in the Council. The Vice-Chancellor explained that the membership of the Council is prescribed by the Statute which will need to be amended in consultation with the Academic Council if such representation is to be provided for.

The present position regarding the membership of the teachers on the Academic Council has been examined. It would appear that the principle of giving representation on the Council to the affiliated college teachers has been accepted while framing the Statute on the subject as would be seen from Clause (xii) of Statute 14(1), which reads-

"Six teachers of the colleges admitted to the privileges of the University - three from Meghalaya, two from Nagaland and one from Mizoram - elected from amongst themselves".

The manner of election of teachers is in accordance with the system of proportional representation by means of single transferable vote.

Until 1978 there was no college under this University which is maintained by it. At present, there are two, namely, the College of Agriculture, Medziphema, (Nagaland), established in 1978, and Pachhunga University College, Aizawl (Mizoram) taken over by the University in April, 1979. The Principals of the University maintained colleges are members of the Academic Council as at present.

Contd/...

The Academic Council may consider the question whether representation may be given to the teachers of Waghunga University College or teachers of the University maintained colleges in general. If representation is considered necessary or desirable, the number and manner in which such representation should be provided for, either through the teachers' constituency of a particular college or of all University colleges, need also to be decided in order that suitable amendments to the relevant Statute may be proposed to the Executive Council for consideration.

The matter is placed before the Council for decision.

Annexure - 5

NORTH-EASTERN HILL UNIVERSITY
COLLEGE OF AGRICULTURE : MEDZIPHEMA
NAGALAND :: 797 006

No. CA PE-23/79/3340

Dated 2nd September, 1981.

To

The Registrar,
North-Eastern Hill University,
Shillong.

Sub:- Representation of Faculty ~~Members~~ in the Academic Council.

Madam,

I would like to bring to your kind notice that there is no representation from the faculty members of this college in the Academic Council except the Principal. In this connection, it is proposed that atleast a Senior Most Reader and Senior Most Lecturer may kindly be given representation in the Academic Council.

Thanking you,

Yours faithfully,

Sd/- D.N.Upadhyay
Reader-in-charge

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Item No. 6

To consider the panel of examiners for examining the M.Phil thesis of the Philosophy Department -

The Dean, School of Social Sciences has furnished a panel of examiners for examining the thesis of the M.Phil candidates of Philosophy Department.

The Academic Council may please recommend the same to the Executive Council for its approval.

To maintain secrecy, the panel will be tabled by the Chair.

Item No. 7

To approve the panel of examiners to examine the Ph.D. thesis of the candidates of Botany Department :

The panel of examiners to examine the Ph.D. Thesis of the undermentioned candidates are placed before the Academic Council for its approval and recommending the same to the Executive Council.

Name of the candidates

1. Shri Monojit Deb of Botany Department.
2. Kum. Papiya Deb of Botany Department.

The panel will be tabled by the Chair.

Item No. 8

Recommendation of the Viva-Voce Board of
Shri Sudip Dey, a Ph.D. candidate of
Zoology Department :

A Viva-Voce Examination held on receipt of the two
Evaluation Reports on the thesis "Studies on certain physiological
and Bio-chemical aspects of vision in some Arthropods"
submitted by Shri Sudip Dey of Zoology Department, have
recommended for the award of the Ph.D. Degree to the candidate
concerned.

The recommendation of the Viva Voce Board will be
tabled by the Chair.

The matter is placed before the Academic Council for
its consideration and approval.

Item No. 9

To consider panel of examiners for the Ph.D. thesis of the School of Life Sciences :

The Dean, School of Life Sciences and the Head of Zoology Department have forwarded the panel of examiners for Ph.D. thesis of the undermentioned candidates of Botany and Zoology Departments respectively for placing before the Academic Council for its recommendation to the Executive Council.

The Academic Council may, therefore, approve and recommend the same to the next meeting of the Executive Council.

The panel will be tabled by the Chair.

Name of the candidates	Department
1. Shri P. Pradhan	Botany
2. Shri Sudhir Trivedi	"
3. Shri B.Kharbuli	Zoology
4. Shri N.G.Goswami	"

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Item No. 10

To consider the Panels of Examiners for the M.Phil Thesis of the candidates of the Department of Sociology :

The panels of examiners for the M.Phil Thesis of the undermentioned candidates of Sociology Department are placed before the Academic Council for its consideration and recommendation to the next meeting of the Executive Council for its approval.

Name of the candidates

1. Shri Vanupa Zathang
2. Shri L. Gyaneshore Singh
3. Shri Lanu Aier
4. Shri Irabot Singh
5. Shri A.A.Ao.

The panels will be tabled by the Chair.

Item No. 11

Registration of candidates for
Ph.D. in Zoology :

The Board of Post-Graduate Studies in Zoology in its meeting held on 4th May, 1981 have approved the registration of the following candidates for Ph.D. from the dates of their joining. As there is no School Board at present the matter is placed directly to the Academic Council for approval and consideration.

<u>Sl.No.</u>	<u>Name</u>	<u>Title of the Thesis</u>	<u>Guide</u>	<u>Date of joining</u>
1.	Mr. Sudipta Choudhury	Studies on colours of integument of some insects: their nature & influence of environmental & hormonal factors on them.	Dr A.R. Verman	24.1.80
2.	Mrs. P. Chaurasia	Studies on embryonic development of <u>Philo sania ricini</u> Hutt (Lepidoptera: Saturnidae).	Dr M.K. Khare	1.9.1979.
3.	Mr. Anupam Kumar Roy	Survey of insects & Biology & Contr of certain insect pests in Balpakhran proposed wild life sanctuary, Garo Hills, Meghalaya.	-do-	13.7.79.
4.	Mr. V.T. Darlong	An ecological study of soil arthropods in three different eco-systems regines of Meghalaya (North-Eastern India).	Dr J.R.B. Alfred	3.12.79.
5.	Mr. H.C. Sharatchandra	Ecological separation among the larger ungulates of Kaziranga national park, Assam.	Dr. R.G. Michea-1	30.6.80

Item No. 12

To consider abolition of Pre-Ph.D. Course
in the Department of Zoology, School of
Life Sciences :

The Pre-Ph.D. Course was started in the School of Life Sciences in 1980. This Course was meant to train the students in certain areas as pre-requisite for their Ph.D. work. Students have been facing difficulties that their papers have never been completed properly and as such, the Pre-Ph.D programme has not served the purpose for which it was meant. The students naturally feel harassed. During the last one year there is only one instance when the Pre-Ph.D examination has been completed in the Department, more than six months after the student was admitted to this Course and that too on great insistence and persuasion of the Guide concerned. In other cases the evaluation has not been completed though the students have completed the minimum period required for this Course.

Therefore, the matter is placed before the Academic Council for consideration and decision whether to abolish the course on Pre-Ph.D., and revision of Ordinance on Ph.D. Programme.

Item No. 13

To consider the decision of the Governing Body of Mendipathar College to close down the Department of Logic and Philosophy from 1981-82 session :

The Governing Body of Mendipathar College passed the Resolution to close down the Department of Logic and Philosophy from 1981-82 session. It further resolved to introduce Education in its place vide their Resolution No. 4 reproduced below:

Resolution No. 4: The Governing Body decided to close down the Department of Logic and Philosophy in view of the fact that only one or two students apply for these courses. In its place it was decided to introduce Education as a subject to be taught both at the P.G. and B.A. level. It was felt that the course on Education would not only be more relevant but would also attract more students and hence its existence would be justified. The Secretary of the Governing Body was seek to take necessary steps in this regard for obtaining the approval of the North-Eastern Hill University".

In view of the provision of the North-Eastern Hill University Act, 1973, para 33(v) of the Statute of the University which lays down that "the college shall not without the previous permission of the Executive Council and the Academic Council suspend instructions in any subject or course of study which it is authorised to teach and teaches."

The matter is placed before the Academic Council for its consideration.

Item No. 14

Opening of Evening or Morning Post-Graduate
Classes for persons having full-time jobs :

Placed below is the DO letter No. NCP/EDN/7/80,
dated 18 June, 1981, from Shri R.N. Tandon, Director, (Manpower
Dev.) & Project Economist, North-Eastern Council, Shillong,
for consideration of the Council.

DO No. NCP/EDN/7/80
18 June, 1981.

My Dear Dr Banwar,

As you are already a-aware that the level of
education in the North-Eastern Region is not very high and most
of the people take-up employment after completing their High
School or Degree. We have been approached from many quarters,
that it would be in the fitness of things if some Institutes
are established in the Region where post-graduate education can
be given in the morning or evening hours for persons who are
having full time jobs. I wonder if it would be possible for
your University to consider the feasibility of starting such
classes for a few selected Art subjects to start with. This
might give a long needed fillup to the educational backwardness
of this region. I shall be grateful if you can get the matter
examined and let us have your reaction to the proposal.

With kind regards,

Yours sincerely,

Sd/- R. N. Tandon

Dr S. C. Banwar
Acting Vice-Chancellor
North-Eastern Hill University,
Shillong - 793 001.

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Item No. 15

To consider introduction of Compartmental system for the B.Sc.(Home Science) Examination :

One student failed only in two subjects at the B.Sc. (Home Science) Examination held this year and asked for permission to appear that Examination only in failed subjects at the examination to be held next year. The compartmental system had been introduced for the B.A., B.Sc., and B.Com. Examinations with effect from 1977 but similar facilities have not been provided for the B.Sc.(Home Science) students. As such, the matter is put up to the Academic Council for favour of decision as to whether compartmental system be introduced to the B.Sc.(Home Science) Examination also since the Principal of the College concerned urge strongly recommended the case in question.

Item No. 16

To consider condonation of the shortage of attendance :

Mrs. Imsenkala and Shri S.D.Singh of Education Department whose attendance in the Class as shown below, were provisionally allowed to appear at the Fourth and Second Semester Examination respectively, subject to condonation of the shortage of attendance.

The exact attendance -

1. Mrs. Imsenkala (Semester IV)

Course	Lectures/ delivered	Attendance	Percentage of attendance
E.C. 12	48	9	19%
E.C. 13	44	5	11%
E.C. 14 (Optional)	26	7	27%

2. S hri S.D.Singh (Semester II)

E.C. 5	59	30	51%
E.C. 6	53	34	64%
E.C. 7	33	20	61%
E.C. 8	26	16	61%

As per provision of the Ordinance No. 10.6, the School Board may, on the recommendation of the Department concerned and consider and decide on the request for condonation of shortage of attendance if such shortage is only 5%. For condonation of any shortage more than 5% and less than 15%, the Board may make recommendations to the Vice-Chancellor whose decision shall be final.

As per the above provision, it was found that the shortages are beyond condonation.

The matter is, therefore, placed before the Academic Council for its consideration and decision.

Item No. 17

To consider revision of rates of remuneration for examinations in Science Subjects :

Shri D.P.Chakravarti, Member of the Academic Council in his letter dated 27th July, 1981 on the subject indicated has stated as under :

"The rates of remuneration for examinations in Science Subjects have been decided only partly. The minimum remuneration for Science practical examinations have not been revised as yet. The remuneration for the practical examiners in the Science Subjects in the Gauhati University and also under the School Boards in Assam and Meghalaya has been a minimum of Rs 120.00. But since the inception of the NEHU in 1973, the amount has been reduced to Rs 100.00 in the fitness of things the amount needs revision and some differences should also be there with regard to P.U. Science, B.Sc. Pass and B.Sc. Honours Examinations."

The matter is placed before the Council for consideration and decision.

Item No. 18

To consider introduction of Sociology Course at B.A. (Pass) level in the Pachhunga University College, Aizawl :

The Principal of Pachhunga University College applied for opening of Sociology in the College from 1981-82 session. Dr A.C.Sinha, Head of Sociology Department had inspected the College and submitted the Inspection Report. He recommended the introduction of Sociology course at B.A. (Pass) level from 1981-82 session provided the College fulfill certain conditions :

1. Sufficient number of text-books must be procured;
2. At present more than 25 students should not be admitted;
3. One Lecturer must be appointed immediately.

The Report of the Inspection Commission is placed as Annexure - 26

The matter is placed before the Academic Council for its consideration.

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The Inspection Report of the Pachhunga University College for introduction of B.A.(Pass) Course in Sociology from the year 1981.

I visited the College on August 31, 1981 and met the Principal for ascertaining the steps they proposed to undertake before introducing Sociology from the present session. I strongly feel the subject may be introduced from this session provided the College satisfy the following conditions:

1. For procuring text-books provided for the course, an amount of Rs 5,000.00 is urgently needed. Since the books are not available in the local market, they have to be procured from Calcutta/Delhi.
2. The College has the space and requisite furnitures. However, we suggest not more than 25 students to be admitted to the Course.
3. In case the College is keen to introduce Sociology from this academic session, the following steps are to be taken:
 - (a) Recruitment of a Lecturer on ad-hoc basis for the immediate work;
 - (b) For appointment of one Lecturer for the first year for teaching the introductory courses;
 - (c) Appointment of second Lecturer for the completion of the course.

Sd/- A. C. Sinha.

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Item No. 19

To report the suggestion of the Union Ministry of Education regarding adjustment of Winter Vacation in the academic session 1982-83 in view of the IX Asian Games to be held in Delhi:

A DO letter No.F.10-28/81-AGC dated 3 July, 1981 addressed to the Vice-Chancellor by the Union Education Secretary is placed below as Annexure - 7 for information of the Council. This University observes winter vacation in its Post-Graduate Departments and in the colleges, both constituent and affiliated. Ordinarily, the winter vacation is from the 15th of December to the 15th of February. While considering the Government of India's proposal for adjustment of the academic session, it may be necessary to take into account some of the programmes usually scheduled by the University and the colleges during the period. The following may be mentioned:

- (i) The first and third semester examinations of the P.G. students and the students of the Agricultural College are held in November-December;
- (ii) The B.Ed. Examination of the University is held during November-December;
- (iii) Some of the under-graduate colleges hold selection tests during November-December.

Since the forthcoming Asian Games to be held at Delhi will be a unique occasion for students in our country, and some students from the North-Eastern region are likely to be called upon to participate in the various activities and events of the Asian Games, the Ministry's suggestions may be considered. The Ministry has been informed in the meantime that the University's decision in the matter will be communicated to them in due course.

Annexure 1

T N Chaturvedi

Government of India
Department of Culture
New Delhi - 110 001

D.O.No. F.10-28/81-AGC

New Delhi
July 3, 1981.

Dear Dr Banwar,

As you are aware, India is organising the IX Asian Games at Delhi on November 19 - December 4, 1982. With a view to giving our youth a sense of participation in the Games, it is proposed to invite selected students from all over the country to act as ushers, companions and assistants of Games officials.

2. It is considered, it will be helpful if the winter vacation in schools and colleges are so adjusted that the schools and colleges are closed for winter vacation in 1982 corresponding to the period of Games i.e., 19th November to 4th December, 1982. This may mean advancing winter vacation in 1982. This will enable the students to witness the games and also take part in their management without any loss of schooling. This will also help in the successful conduct of the Asian Games, 1982, and in promoting sports consciousness among students. I hope it will be possible for you to suitably adjust the academic session 1982-83 of University/Institute and colleges affiliated to the University so as to implement this suggestion. I shall be glad to know your reaction to the suggestion at an early date.

With kind regards,

Yours sincerely,

Sd/- T.N.Chaturvedi

Dr S.C.Banwar(Acting)
Vice-Chancellor
North-Eastern Hill University
P.O.Lower Lachumiere
Shillong - 793001.

Item No. 20

Proposal of improving the faculty output

In connection with the subject quoted above, the DC letter No.F.1-54/81(NP-I), dated September 29, 1981, from the Secretary, University Grants Commission is reproduced below for consideration of the Council:

Dear Vice-Chancellor:

The Committee of Vice-Chancellors of Central Universities at its meeting held on August 20, 1981 while considering the proposal of improving the faculty output in the Central Universities was not in favour of an external assistance of a specialised agency for evaluating the same.

However, as suggested by the Committee, the University may undertake an evaluation of its faculty output with a view to improving it either on its own or with the assistance of a specialised agency.

We shall be grateful if the evaluation is undertaken and the results intimated to the Commission.

With regards,

Yours sincerely,

Sd/- R. K. Chhabra
Secretary

- - -

Item No. 21

To consider introduction of
Anthropology at Under-Graduate
level.

It is suggested that the teaching of Anthropology should be introduced at the B.A. Pass and Honours levels. So far NEHU has been offering courses only in P.U. Science and B.Sc. Much before the new Department was created courses in Anthropology were being offered at P U Science and B.Sc. level in one affiliated college of NEHU. This should be continued without any disturbance. This notwithstanding, as the department is in the School of Social Sciences, it will be appropriate that the department starts course programmes at the P U Arts and B.A. levels also.

The matter was placed at the last meeting of the Council but decision was not taken. Hence it ^{is} placed again before the Council for consideration.

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Item No. 22

To consider the panel of Examiners for the Ph.D. Thesis of the Department of Chemistry :

The panel of examiners for the Ph.D. Thesis of the undermentioned candidates of the Department of Chemistry are placed before the Academic Council for its consideration and recommendation to the next meeting of the Executive Council for approval.

Name of the Candidate

1. Kumari Veena Aggarwal
2. Shri S. Apparao.

The Panel will be tabled by the Chair.

Item No. 23

Regulation on MA/M.Sc/M.Com/M.Ed.
Examination - Mathematics :

Due to a delay in finalising the above Regulations, the Head of the Department of Mathematics has allowed all students of his Department to appear at the First and Second Semester Examination held in February, 1981 and June-July, 1981 respectively, without considering minimum marks for passing the internal assessment. Regulation No. 7 says - "A student will be permitted to sit for the Semester Examination in any course only if he has cleared the sessional evaluation in that course. To clear the sessional evaluation in any course, he must secure a minimum of 35 percent of the marks allotted to the sessional work".

The Academic Council may, therefore, relax the operation of the said Regulation for those category of students who have appeared at the First and Second Semester Examination of Mathematics Department, as a very special case and not to be used as a precedent.

(Page - 56)

Item No. 24

To consider the panel of examiners for
examining the thesis of the candidates
of the Department of Philosophy :

The Dean, School of Social Sciences has furnished a panel
examiners for examining the thesis of the M.Phil candidates of
Philosophy Department.

The Academic Council may please recommend the same to
the Executive Council for its approval.

The panel will be tabled by the Chair.

Item No. 25

To consider the panel of examiners for the Ph.D. Thesis of the candidate of the Chemistry Department -

The panel of examiners for the Ph.D. Thesis of the undermentioned candidate of Chemistry Department is placed before the Academic Council for its consideration and recommendation to the next meeting of the Executive Council for its approval.

Name of the candidate -

Shri A .K. Bhattacharjee.

To maintain secrecy, the panel will be tabled by the Chair.

Item No. 26

Recommendation for the award of Ph.D. Degree to
Smt. Anju Joshi of Philosophy Department -

The two evaluation reports on the Ph.D. Thesis of
Smt. Anju Joshi of Philosophy Department were placed before
the Vice Board. Upon examining the candidate and having
considered the two reports, the Board unanimously decided to
recommend her for the Award of the Degree of Doctor of
Philosophy of the North-Eastern Hill University.

The Title of the Thesis is 'The Role of Religious
Belief in North Eastern India'.

The Academic Council may, therefore, approve the
same.

Item No. 27

To considered the introduction of Mizo Language as Second Language Paper in Pre-University Course Level.

There was a demand from students and public to introduce Mizo Language as Second Language Paper in Pre-University Course Level. The BUGS in Mozo resolved on 6.5.1981 to introduce Mizo Language as Second Language Paper from 1982-83. Accordingly, detailed courses had been worked out as given in the Annexure 8 .

The same is placed before the Academic Council for its approval.

It was resolved to introduce Mizo Language as a Second Language Paper in P.U.C. level from the session of 1982-83. The BUGC recommended the following selections for the Mizo Second Language Courses :-

Paper - I :

Pros	(a) Stories	-- 60 mark
	(b) Essays	-- 40 marks
Total :-		<u>100 marks</u>

(a) The selected pieces for stories are :-

1. Lallianvunga Vanglai	- by H. Thangkhuma
2. Pialral zawna	- by R.L.Kamlala
3. Mateo Pa lone	- by J. Merince
4. Thlahrang	- by Lalzuithanga
5. Naymyo Sanapui	- by Capt. C. Khuma
6. Hawilo-pari	- by Biakliana

(b) The selected Essays are :-

1. Sakhua leh hnam nunphung	- by Rinsanga
2. Mizo hnam zia leh nunphung	- by Khuanga
3. Hmangaihna	- by Lalhmingliana Saiawi
4. Zupawl buam	- by Zasia ma
5. He ranah hian awn reng i la	- by H. Thangkhuma
6. Sipai	- by Zikpuii Pa
7. Thu khuh	- by Rev. Zairema
8. Anni leh kei-ni	- by A. Khawhling
9. A no ber mai, A no ber mai	- by Rev. Zairema
10. A no na e	- by Sangliana
11. Mizo pa in	- by C. Valbuanga
12. Tun kun za chungga Mizo fa-te (1872-1972)	- by Zikpuii Pa
13. Sialton official	- by C. Thuamluaia

Paper - III

(a) Poetry	(i) Hla hlui	}	70 marks.
	(ii) Tunlai hla,		
	Pathian hla		
	Sam		
(b).	Drama	-	20 marks
(c)	Unseen	-	10 marks

Contd/...

The selected pieces for Hla hlui, Tunlai Hla, Pathian hla and Sam are :-

Hla hlui : (Vai len atang a Indopui pahnihna in kara hla chhuak) (1889-1945).

1. Puna zai - 10 stanzas
2. Tlanglam zai - -do-
3. German run zai - -do-
4. Chalmar zai - -do-
5. Lengren zai - -do-

(including Kaihlék zai, Tlarthum zai, Ramthar zai etc.)

Tunlai hlate:-

1. Khaw ngai hnuchham - by Vankhama
2. Rimawi ran - by Vankhama
3. Hraite Khawng e i chun ve kha - by Rokunga
4. Lei mite hun bi an achhiar e - by Rokunga
5. Sikni eng - by K.C.Lalvunga
6. Kawltu chawia - by Chhuana
7. Chengrang chawia -by Chhauna
8. Valhuaia - by Sangliana
9. Par ng a chul - by Lalzova
10. Mahriak tenar ang ka vai e Parte - by Lalzova
11. Min then lul suh - by Lalzova
12. Mizo aieng - by V.L.Sawna
13. A hlin thla - by Vankhama
14. Kan chuanna tlang - by Liandala

Pathian hla and Sam:-

1. Leng Leng i la thangvan sang ah - by R.L.Kamlova
2. Hunte an kiam zela lei hlimna -by Puna
3. Hmanah nunhlui a chul tawh hnu - by Patea
4. Eden par mawi chul hnu - by Taisena
5. Sual sipai ral nen nithm - by Laithangpuia
6. Khawvelah hian mikhual ka ni - by V. Hawla
7. Hring hniang nau ang a tap - by Saihnuna
8. Vanchung sang ta k a Lal Isu - by Suakliana
9. Hosana tizelin aw - by Suakliana

Contd/...

10. Galiliah Lalpa Isua Zirtir pahin - by Zosaphara
11. Hun a danglam rorelna ni ropui - by R. Thanghuta
12. Muan Muanna Kim - by Zosaphara
13. Lalpa Isua hmangaihna chuan - by J. Lalmechhungi
14. San - 137
15. San - 126
16. S - 139

(b) Selected Drama:

1. Sangi in leng - by L.F.Sailo
3. The BUGS resolved to request the Academy of Letters, Mizawl to publish the recommended text books for Mizo Second Language paper.
4. The BUGS further resolved to make the following changes in the present Mizo MIL syllabus to be effective from 1981-82 session in the first year of P.U.C. and B.A. classes:-
P.U.C.: (1) A monograph on Lushai Customs and Ceremonies by N.E.Pery was recommended for reference books for 'Mizo Inmeih dan'.
(2) Pipu chhuah tlang - by Liandala and Hraite Khawngai Chun te kha - by Rokunga were to be added to the selection of poems.
B.A.: - (1) The following stories from Paper I be dropped:-
Pasalthate = (3) a - f Stories.
Thla hbeinga Zen - Essay (8) by J. Dokhuna
2. The following book was recommended to be included in Paper I
(1) Stories -
- Mizo Kohhran Chanchin - by Rev. Saiathanga
3. It was decided to drop "Pipu chhuahtlang - by Liandala from B.A.Syllabus.

Item-No. 28

To consider the Minutes of the meeting of the Board of Post-Graduate Studies in Economics held on 5th June, 1981 and 21st August, 1981 :

Placed as Annexure - 9 is the Minutes of the meeting of the Board of Post-Graduate Studies in Economics held on 5th June, 1981 and 21st August, 1981. The Board had also recommended that :

- (i) the course on Mathematics for Economists which so far has been spread over two semesters, be condensed into a one semester course. This was thought to be academically feasible and desirable in view of the fact that students must complete as early as possible so that he is equipped at an early stage to follow a subsequent course in theory with ease;
- (ii) the course in Statistics (Statistical Analysis I & II) be condensed into a one semester course to be offered in the second semester. The Board had approved the modification of the course which is placed as Appendix- I);
- (iii) the compulsory course for both the Shillong and Aizawl Campuses be the same for the sake of maintaining uniformity in teaching and evaluation and the total number of courses in both the Campuses be the same. The number of courses in Aizawl Campus is required to be revised.

The matter is placed before the Council for consideration and approval.

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793003
DEPARTMENT OF ECONOMICS

MINUTES OF THE MEETING OF THE BOARD OF POSTGRADUATE
STUDIES IN ECONOMICS.

A meeting of the Board of Post-Graduate Studies in Economics was held at 11.00 a.m. on Saturday, the 5th June, 1981, in the Committee Room of the Department. The following members were present:

1. Dr S.H.Guha Thakurta (in the Chair)
Head of the Department of Economics, NEHU.
2. Professor T. Mathew,
Dean, School of Social Sciences, NEHU.
3. Professor R.Mohrotra,
Dibrugarh University, Dibrugarh.
4. Dr K.Bez, Reader in Economics, NEHU.
5. Dr A.Banerji, Reader in Economics, NEHU.
6. Mr. M.K.S.Nair, Lecturer in Economics, NEHU.
7. Mr. Eugene D. Thomas, Lecturer in Economics, NEHU.
8. Mr. Sankar K.Ghosh, Lecturer in Economics,
Mizoram Campus, NEHU (Special invitee)

Prof. Pradhān H.Prasad expressed his inability to attend the meeting.

The Minutes of the last meeting were confirmed.

1. Matters arising out of the minutes of the last meeting:
 - 1.1. - Courses of Studies for M.A. in Economics in Mizoram Campus -

The members discussed threadbare the present syllabi for the semester courses and decided that for the sake of uniformity and maintaining uniform standards in teaching, the compulsory courses in Shillong and Aizawl Campuses should be made uniform, with effect from next academic year starting August 1981. Also, the total number of courses should be same in the two Campuses.

1.2. The Board held that due to the distance and communication difficulties, an effective coordination between the Departments at Shillong and Aizawl Campuses tends to become extremely difficult. Besides, since the University has already a Department of Economics in Shillong, the students of the region would be much benefitted if instead of duplicating the same courses at Aizawl, an allied but different courses geared to the local and regional needs is offered at the Mizoram Campus.

Contd/...

The syllabi of the courses for Mizoram than could be prepared by duly taking into consideration the local needs, man-power requirement etc. Steps in this direction may be taken with the appointment of adequate staff and provision of necessary academic facilities for Mizawl Campus.

2. Appointment of Examiners for the Post-Graduate Courses :

2.1 The Chairman placed before the Board a panel of names of papers setters and examiners for different post-graduate courses. After certain modifications the panel was approved by the Board.

3. Other matters :

3.1. The Board was informed of the successful completion of Pre-Ph.D. course to the satisfaction of the Department by Miss Sanchita Sen. The Board decided that the candidate be allowed to register for the Ph.D. course.

3.2. The Board took^{up}/for consideration the questions of remuneration for the paper setters and examiners of different post-graduate courses from the NEHU. The Board was also informed that in some Universities the teachers within identical (i.e., UGC) scale of pay are given remuneration for paper setting as well as for examining scripts. The Board therefore was of the view that the University authority should extend similar opportunity to its teachers.

3.3. The Board was of the opinion that the present 50:50 weightage between sessional and semester examination should be changed to 25:75 and the matter should be placed before the School Board for decision.

The meeting ended at 1.45 p.m.

Sd/- S. N. Guha Thakurta
Chairman,
Board of Post-Graduate Studies,
Economics, NEHU.

MINUTES OF THE MEETING OF THE BOARD OF POSTGRADUATE
STUDIES IN ECONOMICS

A meeting of the Board of Post-Graduate Studies in Economics was held on 21 August, 1981 at 11.00 a.m., in the Committee Room of the Department.

The following members were present:

1. Dr S.H. Guha Thakurta, Head of the Department (in the Chair).
2. Dr S. Hanchaudhuri, Department of English, MLHU.
3. Dr K. Bez, Department of Economics, MEHU.
4. Dr A. Banerji, Department of Economics, MEHU.
5. Mr. B.K.S. Hair, Department of Economics, MEHU.
6. Mr. Eugene D. Thomas, Department of Economics, MEHU.
7. Mr. S.K. Ghosh, Lecturer in Economics, Mizoram Campus, MEHU - Special invitee.

The minutes of the last meeting of the Board held on 6th June, 1981 were confirmed.

I. Revision of the Post-Graduate Course:

1.1 The Board considered the recommendation of the Department of Economics regarding the re-structuring of the courses on Mathematics and Statistics and decided that the said course be revised, keeping the following points in mind:

(a) The course in Mathematics for Economists, which so far has been spread over two semesters, be condensed into a one-semester course. This was thought to be academically feasible and desirable in view of the fact that it is an elementary foundation course which the student must complete as early as possible so that he is equipped at an early stage to follow the subsequent course in theory with ease.

(b) The two courses in Statistics (Statistical Analysis I and Statistical Analysis II) be condensed into a one-semester course to be offered in the second semester. The course be suitably modified to serve the requirements of the Economics students. It should be less theoretical and instead ought to have a bias towards the application to economic problems.

The Board also approved the revised course as suggested by the Department of Economics.

2. Any other matter :

Contd/...

2.1. The meeting approved the request made by Mr. M.K.S.Nair, Lecturer in Economics, with regard to his Ph.D. thesis to change the title of his thesis from "Agrarian Relations in Meghalayā - A case study of some villages in the Khasi Hills" into "Agrarian Relations in Tra-n-sition in Meghalaya".

2.2. The meeting also approved the request made by Mr. M.K.S.Nair to take Dr A. Banerji, Reader in Economics, as a associated guide since Prof. T. Mathew is abroad.

2.3. The meeting approved the suggestion made by the Chairman that the Board of Post-Graduate Studies should include one senior most teacher from Mizoram Campus as one of the members.

The meeting ended at 1.00 p.m.

Sd/- S. N. Guha Thakurta
Chairman,
Board of Post-Graduate Studies in
Economics, NEHU.

SEMESTER I

COMPULSORY COURSE :

- Course - 1.1 Mathematics for Economists (Detail course content given in Appendix - I)
- Course - 1.2 Microeconomic Analysis I
- Course - 1.3 Macroeconomic Analysis I
- Course - 1.4 Classical Political Economy

SEMESTER II

- Course - 2.1 Statistical analysis (Detailed course content given in Appendix - I)
- Course - 2.2 Microeconomic Analysis II
- Course - 2.2 Macroeconomic Analysis of a Capitalist Economy II
- Course - 2.4 Political Economy of Development.

SEMESTER III

- Course - 3.1 Economy of the North-Eastern Region in India
- Course 3.2 Planning and Policy in a Mixed Economy.
- Course - 3.3 } Optional courses.
- Course - 3.4. }

SEMESTER IV

- Course - 4.1 Economics of Public Sector
- Course - 4.2 Planning and Policy in India
- Course - 4.3 } Optional courses.
- Course - 4.4. }

N.B.: Courses other than Course 1.1. and 2.1 were approved earlier by the Academic Council vide AC:6:79:10.

Some of the Optional courses offered by the Department are :-

- Course - 3.3. Economics of Agriculture
- Course - 4.3 Economics of Rural Development
- Course - 3.4. International Economics
- Course - 4.4. Economics of Money and Credit
- } Course approved by the Academic Council vide AC:6:79:10.

Contd/...

Course - 3.5	Industrial Economics I	(Course content given in Appendix - II)	
Course - 4.5	Industrial Economics II		"
Course - 3.6	Economics History of U.K. and USA		"
Course - 4.6.	Economics History of Japan and USSR		"
Course - 3.7	Theories of Economic Development		"
Course - 4.7	Marxian Economic Analysis		"
	OR		
	Economics of Socialism		"
Course - 3.8	Econometrics I		"
Course - 4.8	Econometrics II		"

MATHEMATICS FOR ECONOMISTS
(1st Semester)

Course content:

1. Types of functions
2. Linear models and Matrix Algebra.
3. Rules of differentiation (concept, of limit, continuity and differentiability of a function, partial differentiation, total differentials, total derivatives).
4. Maxima and minima, first derivative tests, 2nd derivative test)
5. Constrained maximisation (classical)
6. Integral calculus with economic applications
7. First-order differential Equations with economic applica-tions.
8. First-order difference Equations with economic applications
9. Higher Order difference Equations.
10. Exponential and Logarithmic functions.

Recommended Texts:

- Allen, R.G.D. Mathematical analysis for Economists.
Chiàng, A Fundamental methods of Mathematical Economics.
Yamane, T. Mathematics for Economists.

Reference Texts:

For Matrix Algebra : Hadley's Linear Algebra and for calculus -
Apostol's Mathematical Analysis.

STATISTICAL ANALYSIS
(2nd Semester)

Course content:

1. Elements of probability theory (Laws of probability and axioms distribution and frequency functions and basic probability distributions e.g. binomial, poisson and normal and their economic applications), Mathematical Expectations.
2. Treatment and analysis of data-frequency distribution, to find measures of central tendency and measures of dispersion.
3. Index Number Theory.
4. Correlation and Regression - bi-variate case (Linear and Nonlinear).
5. Correlation and Regression - multivariate case (Linear and Nonlinear).

Contd/...

6. Analysis of time series data and growth curves..
7. Theory of Estimation and properties of estimates.
8. Testing of Statistical Hypothesis - t, χ^2 , F tests.

Recommended Texts :

Naga r & Das	Statistics	} for preliminary reading.
Meroney	Facts from Figures	}
Goon. Gupta et al	Fund-amentals of Sta-tistics	Vol. I & II.
Hoel	Introduction to Mathematical Statistics.	
Fraser	Statistics.	
Hoed et al	Introduction to Theory of Statistics.	

Reference Texts:

Kendall et al	Advanc : statistics.
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INDUSTRIAL ECONOMICS

Course 3.5 Industrial Economics I

Structure and organisation of industry: size of the industrial unit; location and concentration; industrial finance and ownership; management; pricing; industrial relations; control of industry. Technology and industrial development; industrial planning and evaluation; state and industrial development.

Selected reference :

- M.L.Greenhut Plant location in theory
W.J.Baumol Business behaviour; value and growth.
H.Leibenstein Industrial organisation and economic analysis.
E.Solomon (Ed.) Management of corporate capital
A.E.A Reading in industrial organisation and public policy
Edith Penrose Theory of the growth of the firm.
J.S .Bain Industrial organization
Edgar H.Hoover. The location of economic activity.
R.C.Estall & R.O. Buchanan Industrial activity and economic geography
M.A.Utton The role of Science and Technology in developing countries.

(Additional readings could be specified later).

Course 4.5 Industrial Economics II

Indian industry; growth; structure and organisation; public and private industrial units; industrial management company finances; location and its problems. Industrial policy; regulation and control; promotion and development capital issues control; licensing policy; control of monopolies ; foreign exchange allocations; taxes subsidies; small-scale industries. Study of the following industries; cotton textiles, iron and steel; fertilizer and chemical; engineering.

Contd/.....

Selected references:

- P.W.Dhar & H. Lydall The role of small enterprises in Indian economic development.
- G.Rosen Some aspects of industrial finance in India.
- P.B.Kidron Indian industrialisation under planning.
- C.W.Vakil (Ed) Industrial development of India: Policy & Problems.
- Jai B.P.Sinha Some problems of Public sector organisations.
- M.R.Choudhury Indian industries development and location.
- M.M.Mehta Structure of Indian industries.
- Shah M. Bijli Industrialization in the Third World.
- L.C.Gupta The changing structure of industrial finance in India.
- Prabhu N.Singh Role of development Banks in a planned economy.
- S.D.Mehta The Indian Cotton Textile industry.
- I.M.D.
- J.Steindal Small and big business.
- I.M.D.Little The price of fuel
- J.Bhagwati & P.Desai Planning for industrialisation: India's trade and industrialisation policies(1959-66).
- J.C.Sandesra Size and capital-intensity of the Indian industry, 1969.
- Govt. of India Report of Steel Control, 1963.
- do- Report of the Monopoly Enquiry Committee, 1968.
- do- Report of the Industrial Licensing Enquiry Committee, 1969.
- Estimate Committee 9th Report on the Ministry of Industrial (IV Lok Sabha) Development & Company Affairs, 1968.

(Additional readings would be specified later).

Course 3.C: Economics History of U.K. and U.S.A.:

- U.K. Inter-relations in Economic development: industrial and agricultural revolutions; science and technical abilities the Poor Laws; the trade union movement; foreign trade; entrepreneurship and capital formation; individualism, industry and empire; population, emigration; social environment.
- U.S.A. The colonial economy - 1660-1789; agriculture, labour westward movement, colonial economic relations, the revolution.
- The new nation -1789-1865 ; westward expansion, agriculture and commerce, factory system, population, labour, finance and tariff, slave labour and the civil war.

Contd /....

An industrial economy ; 1865-1920 - industrial development agriculture productivity and agriculture as industry, labour relations; transport and communications; trade and tariff.

Economy since 1920 : economic imperialism, economic collapse, New Deal, World War and economic expansion, American economy in the world economy.

Selected references:

- H. Briggs & E. Jordan Economic History of England.
- J. A. Clapham Economic History of Modern Britain, 3 Vols.
- E. Lipson Economic History of England. 3 Vols.
- W. Ashworth Economic History of England 1870-1939
- T. S. Ashton The Industrial Revolution
- A. Krishnaswamy The Indian Union and the States - A study of Autonomy and integration.
- B. R. Misra Economics aspects of the Indian Constitution
- K. Snathanan Union-State Relations in India.
- K. V. S. Sastri Federal State fiscal relations in India .
- M. D. Choudhury Regional income accounting and underdeveloped economy.
- Srinivasan & Bardhan (Ed.) Poverty and income distribution in India.
- S. P. Singh Centre-state relation in agricultural development
- G. O. I. Finance Commission reports..
- R. M. Rovertsen History of American Economy.
- F. Reese An economic history of United States.
- H. U. Faulkner A merican economic history
- P. A. Baran & P. M. Sweezy Monopoly Capital.
- Edward, Reinah & Weisskopf Capitalist system.
- W. M. Hacker American economic growth and development
- C. S. Spence The sinews of American capitalism
- G. D. Nash (Ed) Issues in American economic history
- A. A. Berle American economic Republic.
- C. N. Degler The age of economic revolution - 1876-1900.
- H. F. Williamson (ed) The growth of American economy.
- P. M. Sweezy & H. Magdoff The dynamics of U.S. capitalism.

Course 4.6 Economics History of Japan and U.S.S.R. :

Japan

The Tokugawa heritage; the economic implications of the Meiji Restoration; government enterprise 1868-1880. Evolution of economic policy; creation of infrastructure - government, institutions.

Nature of changes in agriculture, 1868-1939; changes in inputs, cultivation practices and agrarian relations.

Growth of modern industries.

The role of the State in Japanese economic development, 1863-1939. Fiscal, monetary and international economic policies, War and growth of war economy.

Japanese experience as an approach to economic development.

U.S.S.R

Economic history of Russia to 1917; War communism and the New Economic Policy (1918-1928); Soviet industrialisation debate (1924-1928); Foundations of planned economy, planning and collectivisation (1928-1940). Soviet economic growth and performance. The Soviet experience as an approach to economic development.

Selected references:

Japan

- | | |
|--------------------|--|
| W.W.Lockwood (Ed.) | State and economic enterprise in Japan |
| EmiKoichi | Government fiscal activity
Economic growth in Japan -1861-1960. |
| I. Beckman | The Modernization of China and Japan |
| J.Mirschmeier | The origins of entrepreneurship in
Meiji Japan |
| W.W.Lockwood | The economic development of Japan. |
| T.C.Smith | Political change and industrial
development of Japan : Government
Enterprise, 1869-80. |
| K. Ohkawa et al | The growth rate of the Japanese economy
since 1878. |
| H. Rosovsky | Capital formation in Japan. |
| J.I.Nakamura | Agricultural production and economic
development of Meiji Japan. |

Contd/...

- M. Tokata (Ed.) Modernization of Japan - I.
E.C. Smith The agrarian origins of Modern Japan.
G.C. Allen Japanese industry : Its recent development and present condition.
H. Hyoda et al The small industries of Japan. Their growth and development
E. H. Flann & M. Ohkawa (Ed) Economic growth : The Japanese experience since the Meiji Era.
M. Ohkawa & I. Resovsky A century of Japanese economic growth.
E. Oeura (Ed) Agricultural development in Modern Japan.
G. Hablinger The Japanese factory.
E. H. Norman Japan's emergence as a modern State.
S. Ishikawa Economic development in Asian perspective.
W. B. Hauser Economic institutional changes in Tokugawa Japan.
U.S.S.R.
M. H. Dobb Soviet economic development of Russia since 1917.
H. Schwartz Russia's soviet economy.
P. R. Gregory & R. C. Stuart Soviet economic structure and performance
D. J. Male Russian peasant organisation before collectivisation
A. Baykov The Development of the Soviet economic system
Monthly Review Press Fifty years of Soviet power
Gus Offer The service sector in Soviet economic growth. - - -
A. Nove The Soviet economy
J. Blum Lord and peasant in Russia.

Contd/...

Course 3.7 Theories of Economic Development :

Classical development theory; Marxian schemes of reproduction; Schumpeter's model of development; models of development with unlimited supplies of labour; critical minimum thesis; theory of Dualism - technological and sociological states; theories of development; development models in Indian planning.

Strategies of balanced and unbalanced growth; motivation for development; factors and policies relevant to development; sociological and institutional constraints on development; recent experience and patterns of development.

Selected references:

- | | |
|----------------------------------|---|
| Irna Adelman | Theories of Economic Growth and Development. |
| A.N. Agarwala & S.P. Singh (Ed.) | Economics of Underdevelopment |
| P.A. Sweezy | Theory of Capitalist Development |
| G. Kay | Underdevelopment and Development |
| J. Schumpeter | The theory of economic development. |
| W. Baumol | Economic Dynamics. |
| W.A. Lewis | Theory of economic growth |
| R. Nurkse | Problems of Capital formation in underdeveloped countries |
| H. Leibenstein | Economic backwardness and economic growth |
| Benjamin Higgins | Economic Development |
| G.M. Meier (Ed.) | Leading issues in development economics |
| W.W. Rostow | Stages of economic growth |
| J. Bhagwati & S. Chakravatry | Indian economic analysis : A Survey. |

Contd/...

A.C. Hirschman	Strategy of economic development.
Paul Baran	Political economy of development
A.K. Cairncross	Factor in economic development
E. Hagen	On the theory of economic development
D.C. McColland and D.G. Winter	Motivating economic achievement
Amartya Sen	Choice of techniques
I. Adelman & E. Thorbecke	The theory of design of economic development
J. Tinbergen	Economic policy : Principles and design
H. Chenery & M. Syrquin	Patterns of development
S. Kuznets	Modern economic growth : Rate, structure, spread.
B. Supple	The experience of economic growth

Course 4.7 Marxian Economic Analysis

The ideological underpinnings: Economic interpretation
of history, the class struggle.

Theory of value

The transformation problem

Theory of exploitation

Theory of capitalist development:

simple reproduction and extended reproduction;

accumulation and the falling rate of profit.

Breakdown of capitalism

Marx classics

Marx and Keynes

Marx and modern economics

Neo-Marxism

Contd/-.....

Selected references:

- Karl Marx Capital, 3 Vols.
K. Marx Grundrisse : Foundations of the Critique of Political Economy (M.Niccolous, Ed.)
K. Marx A Contribution to the Critique of Political Economy
K. Marx Theories of Surplus Value, 3 vols.
K.McLellan (Ed) Marx's Grundrisse
K.Marx Communist manifesto
F.Engels Anti-Duhring
B.Ollman Alienation
Maurice Dobb Political Economy and Capitalism
Paul Sweezy Theory of Capitalist Development
R.L.Meek Studies in the Labour Theory of Value
Joan Robinson An Essay in Marx ian Economics
-do- On re-reading Marx
M.Dobb Studies in the Development
L.Leontyev A short course of Political Economy
A. Brody Proportions , Prices and Planning
M. Morishima Marx's Economics
B. Hindess & P.Q.Hirst Pre-Capitalist Modes of Production
E. Mandel Marxist Economic Theory
D.Horowitz(Ed). Marx and Modern Economics

Contd/..

Course 4.7(b) Economics of Socialism :

1. Approach to economic systems - pragmatic and dialectical;
2. Origins of the Political Economy of Socialism; transition to Socialism.
3. Nature and problems of the Political Economy of Socialism
4. S-socialist industrialisation: a model of extensive growth; consumption and accumulation; results of the accumulation effort.
5. From extensive to intensive growth; problems relating to the economic reform; prices, incentives, etc.
6. Rational organisation of the productive forces: Planning techniques and the optimal functioning of the economy, efficiency of investments; use of input-output and material balances; applications of linear programming.
7. Nature of social relations of production: transition of the system.

Selected references:

- G. Dalton Economic system and society (Penguin).
- A. Nove & M. Nuti (Ed.) Socialist economics (Penguin)
- Oscar Lange Papers in Sociology and Economics, Part I & II.
- E. Preobrazhensky The New Economics.
- M. Lewin Russian peasants and Soviet power.
- Elrich The Soviet industrialisation Debate.
- Kaufman "Origins of Political Economy of Socialism" in Soviet studies. Jan. 1953.
- P.M. Sweezy & C. Bettelheim On the transition to Socialism
- N.L. Gupta Transition from Capitalism to Socialism.

Contd/...

- M. Dobb Papers on Capitalism, Development and Planning.
- " Welfare Economics and Economic Welfare
- " An Essay on Growth and Planning.
- J. Lange & F.M. Taylor On the economic theory of Socialism
- Reiwei (Ed) New Currents in Soviet Type Economics.
- H. Sharp (Ed) Planning, Profits and Incentives in USSR. Vol. I
- A. Zauberman Mathematical Revolution in Soviet Economics.
- M. Ellman Planning Problems in the USSR (1977)
- " Soviet Planning today (1971)
- Csikos-Nagy Socialist Economic Policy
- M. Godelier Rationality and Irrationality in Economics
- M. Kalecki Introduction to the theory of growth in a Socialist economy.
- M. Dobb Soviet economic development since 1917
- W. Brus The economics and politics of Socialism
- V. Kantaravich The best use of economic resources.
- V. V. Novozhilov Problems of cost-benefit analysis in optimal planning
- J. Kornai Mathematical planning of structural decisions.
- R. Garaudy The ~~returning~~ turning point of Socialism.
- H. Smith The economics of Socialism reconsidered.

Contd/...

Course 3.8 Econometrics - I :

I. The Econometrics Approach

- (a) The meaning and objectives of Econometrics; Its relations with Mathematical Economics and Statistics. Nature and scope of Econometric Studies.
- (b) The sources of hypotheses used in Econometrics.
- (c) The raw materials of Econometrics - time series and cross-section data.

II. Statistical Groundwork

- (a) Point and interval estimation : unbiasedness, consistency and efficiency.
- (b) Test of hypotheses; simple and composite hypotheses first and second kinds of errors; Neyman-Pearson lemma; power function of a test, likelihood-ratio test, tests in common use, involving it, chi-square and F statistics.

III. Classical Linear Regression

- (a) Specifying assumptions and their economic implications; assumptions of least square estimators. Properties and limitations of least squares estimators; least squares estimators of regression parameters and the Gauss-Markov theorems on least squares (to be proved in the case of one explanatory variable); estimation of the error variance; standard errors of regression coefficients; multiple correlation coefficient as a measure of goodness of fit.
- (b) Normality of errors - central limit theorem; maximum likelihood estimators; significance tests and confidence intervals.
- (c) Prediction

IV. Extensions of Linear Regression.

- (a) Functional forms, conventional curvilinear forms; dummy variable functional forms; transformations of the dependent variable, economic theoretical and statistical criteria for the choice of the functional form.
- (b) Heteroscedastic errors ; consequences; weighted regression.

Contd/...

- (c) Errors in variables; consequences; methods of instrumental variables and grouping of observations.

V. Econometric Applications.

- (a) Analysis of consumer behaviour.
- (b) Analysis of firm behaviour.

Course 4.8 Econometrics II

VI Extension of Linear Regression (Contd..).

- (a) Multicollinearity; implications; use of extraneous information.
- (b) Serial correlation of errors; consequences; Durbin-Watson statistic; estimation methods; Prediction.
- (c) Estimation of autoregressive models; distributed lag models - adaptive expectations and partial adjustment models.

VII. Simultaneous Equation Models.

- (a) Jointly dependent and predetermined variables; structural form, reduced form and final form.
- (b) The identification problem - rank and order conditions of identifiability.
- (c) Methods of estimations with properties - reduced form estimation and indirect least squares; two-stage least squares, and informal introduction to methods of limited information and full information maximum likelihood and three-stage least squares; comparison of alternative estimation method.
- (d) Formulation and interpretation of econometric models; reduced form, recursive form and structural form.
- (e) Prediction.

VIII. Econometric Applications.

- (a) Analysis of consumer behaviour.
- (b) Analysis of firm behaviour.

Contd/...

Item No. 29

To consider the panel of examiners and paper-setters for the Department of Economics

As recommended by the Board of Post-Graduates Studies in its meeting held on 6th June, 1981, the panel of examiners and paper-setters is placed before the Council for consideration and recommend the same to the Executive Council.

The panel will be tabled by the Chair.

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

ADDITIONAL ITEMS FOR
THE ELEVENTH MEETING OF THE ACADEMIC COUNCIL TO BE HELD ON
11 DECEMBER, 1981

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Item No. 30

Requests from Zoological and Botanical Surveys
of India -

The Regional Centres of Zoological Survey of India and the Botanical Survey of India at Shillong have been corresponding with the University to recognise them, among other things, as centres for higher research. The matter was first taken up in the meeting of the Executive Council held on 11 September, 1974 (Resolution of the Executive Council at Annexure - 10). The Executive Council appointed a Sub-Committee to go into the matter and report their views to the next meeting of the Council. The Minutes of the Sub-Committee is appended as Appendix - I to Annexure - 13.

The Minutes of the Sub-Committee were placed before the Executive Council at its meeting held on 26 April, 1975. The Council considered the Minutes and authorised the Vice-Chancellor to continue the discussions with the Surveys in the light of the Sub-Committee's report. (The Executive Council's resolution may be seen at Annexure - 11)

The Vice-Chancellor placed the matter before the Executive Council again at its meeting held on 29 November, 1975. The Agenda Note placed before the Council may be seen at Annexure - 12. The requests from these two Surveys are summarised below :

1. The Zoological Survey of India requested the University to recognise the M.Sc., Course in Zoology to be conducted at the Headquarters of the Zoological Survey of India, Calcutta.
2. The Regional Centres of Zoological Survey of India and the Botanical Survey of India in Shillong requested the University to recognise them as centres for higher research.
3. The Zoological Survey of India requested to recognise the Headquarters at Calcutta for higher research.

Contd/...

The Executive Council which met on 29 November, 1975 considered these requests and decided to refer the matter to the Academic Council. (EC's resolution may be seen at Annexure - 13).

The matter was considered by the Academic Council at its meeting held on 26 April, 1976. The Note placed before the Executive Council earlier was also placed before the Academic Council (please see Annexure - 14) for its consideration.

The Academic Council unanimously agreed to the suggestion for the recognition of Regional Stations of Zoological Survey of India and Botanical Survey of India in Shillong as centres of higher research with a stipulation that all the rules and regulations applicable to the research followed in the School of Life Sciences shall be applicable to these centres. Regarding Items 1 & 3 of the Agenda Note (Annexure - 12) the Academic Council felt it not advisable to recognise the M.Sc. course and the Zoological Survey of India Headquarters for higher research since both these requests involve recognition of programmes outside the jurisdiction of NEHU and as such were not considered favourably. The resolution of the Academic Council is appended as Annexure - 14.

The recommendations of the Academic Council were not placed before the Executive Council as, it appears, sometime in 1976 the Executive Council was in the process of reconstitution which took almost a year. After the Executive Council was constituted the matter was not placed before that Body, perhaps, through over-sight. Since five years have elapsed without the recommendations not having been placed before the Executive Council, the matter is brought to the notice of the Academic Council for its consideration.

ANNEXURE - 10

Extract from the Minutes of the meeting of the Executive Council held on 11.9.1974.

EC4:74:31(f)

ZOOLOGICAL SURVEY AND BOTANICAL SURVEY OF INDIA

The two Surveys (with branches in Shillong) have requested that research workers be permitted to work for the doctoral degrees of NEHU using their facilities anywhere in the country.

It was RESOLVED that the professors of Zoology and Botany in the School of Life Sciences and two other professors in the same fields nominated by the Vice-Chancellor should go into the matter and report to the Executive Council.

Extracts from the Minutes of the meeting of the Executive Council held on 26.4.1975.

EC7:75:29 COLLABORATION WITH ZOOLOGICAL AND BOTANICAL SURVEYS OF INDIA

The report of the Sub-Committee was placed before the Executive Council.

The Vice-Chancellor was authorized to continue the discussion with the Surveys in the light of the Sub-Committee's report.

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001VCF 7 GI:ZSI(10)/75
VCF 7 GI:BSI(11)/75

November 20, 1975.

NOTES FOR THE EXECUTIVE COUNCIL

Subject:- Requests from the Zoological and
Botanical Surveys of India.

1. Recognition of a proposed M.Sc. Course in Zoology to be conducted at the Headquarters of the Zoological Survey of India, Calcutta, by NEHU -

The Director, Zoological Survey of India has requested the Vice-Chancellor, NEHU, and the Dean of the School of Life Sciences, to consider the possibility of recognising an M.Sc. Course in Zoology by NEHU to be conducted at the Headquarters, Calcutta. The purpose of this Course is to help those of their employees who have a B.Sc.(Pass) or (Honours) degree to improve their academic qualifications and scientific competence. A sub-committee was appointed in pursuance of the resolution of the Executive Council No. EC 4 74:31(f) consisting of the Vice-Chancellor, Dean of the School of Life Sciences, Professor of Botany and two external experts to consider this proposal (along with other requests from ZSI and BSI). The Minutes of this sub-committee are attached herewith (~~Appendix I~~). The Committee after careful consideration of the proposal, decided to request the Zoological Survey of India to submit a detailed proposal for the above course. The regulations and the syllabi for the M.Sc. course in Zoology submitted by the ZSI are appended (~~Appendix II~~).

The question of granting affiliation to this course by NEHU involves problems like maintaining uniformity of standards, both in teaching and evaluation, commensurate with those of NEHU.

It is, therefore, requested that the Executive Council may please consider the request of ZSI in the light of all the aspects stated above as also in view of the report of the sub-committee.

Submitted for the consideration of the Executive Council.

2. Recognition of the Regional Stations of the Zoological and Botanical Surveys of India in Shillong as centres for higher research -

The same Sub-Committee reviewed the above request by both the Zoological Survey of India and the Botanical Survey of India and suggested that NEHU might consider these regional stations for higher research provided the terms and conditions stipulated for Research Fellows in NEHU are also applicable to the candidates from ZSI and BSI as far as possible. The Committee also decided

Contd/...

that the guide at these stations should be recognised on their individual merit and the work of the candidate should also be jointly supervised by one staff member from the University. When these recommendations were referred to the Officer-in-charge of these regional stations, they have questioned the need for the appointment of a co-supervisor from NEHU and also requested that each guide should be recognised once and for all and not every time a candidate applies for registration.

The matter is placed before the Executive Council for their consideration in the light of the observation of the Sub-Committee's Report and the requests made by the regional stations.

3. The request from the Zoological Survey of India for recognising the Headquarters at Calcutta for higher research -

Some of the Indian Universities have recognised the Headquarters of the ZSI at Calcutta for higher research for their own students who have already obtained the graduate or postgraduate degrees of the universities concerned. A note on facilities available for higher research at ZSI, Calcutta, is appended (Appendix- III). The present request for recognition is for scholars who have graduated from other universities. Since we are already considering the recognition of the Regional Stations located in Shillong (vide Item 2 above) it is felt that this additional request may be considered at a later date.

Submitted for the consideration of the Executive Council.

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793001

A meeting of the Committee for recognition of the Botanical and Zoological surveys for Higher Research was held on 6th May, 1975 at 10:00 a.m. at the Vice-Chancellor's Office at Shillong. The following members were present at the meeting:

- | | |
|----------------------------|--|
| 1. Dr. C.D.S. Devanesen | Vice-Chancellor |
| 2. Dr. R. George Michael | Dean, School of Life Sciences |
| 3. Dr. P.S. Ramakrishnan | Professor of Botany
School of Life Sciences |
| 4. Prof S.P. Ray-Chowdhury | Expert Member in Zoology |
| 5. Dr. G.P. Manna | Expert Member in Botany |

1. The Committee discussed in detail the question of recognition of the Surveys for Higher Research, All the Members were generally in favour of granting recognition to these Institutions provided the following conditions are met with:
 - i) The Committee decided to recognise only those institutions of these Surveys which are located within the jurisdictions of the University;
 - ii) In addition to the recognition of these institutions, each application will be scrutinised on individual merits based on the qualifications of the supervisor, the topic of research and the facilities available in the institution;
 - iii) When an application is approved by the University the University will also appoint an additional Supervisor from among its staff to be a co-supervisor;
 - iv) All other rules and regulations relevant to the Ph.D. candidates will be applicable to these selected applicants from the Surveys.
- II The Committee felt that it will not serve any useful purpose to reserve seats because it will take many years to clear the backlog of employees to complete their Master's Degrees. Instead the Committee favours the idea of an In-service Course in Taxonomy to be run only at their Headquarters.

Contd..... 2/-

REGULATIONS FOR M.Sc. ZOOLOGY COURSE FOR
EMPLOYEES OF ZOOLOGICAL SURVEY OF INDIA

1. The M.Sc. Course in Zoology is a course of study spread over a period of two academic years.
2. A candidate seeking admission to the course must possess the qualifications prescribed by the Board of the School of Life Sciences and approved by the Academic Council from time to time.
 - (a) A candidate shall be eligible to apply for admission to the course if he/she had taken the B.Sc.(Hons) / B.Sc. degree in Zoology.
 - (b) Final admission to the course will be made after an interview by the Director, Zoological Survey of India.
 - (c) Admission to the course shall be made only in the 1st year beginning of each academic year.
3.
 - (a) Subject to the general guidance of the Board of the School of Life Science the instruction and routine in the M.Sc. course shall be under the control and direction of the Head of the Departments of Zoology and the Director, Zoological Survey of India.
 - (b) Each student in the M.Sc. course shall remain, with respect to his work in course as well as his general conduct in Zoological Survey of India, under the control of the Director, Zoological Survey of India.
 - (c) The Director may remove the name of the student from the course on the basis of unsatisfactory performance.
4. In each year there shall be four theory papers and two practical papers/project studies, based on the theory papers. There shall be examination at the end of each year.
5.
 - (a) Each theory paper shall be for 100 marks and each practical paper/project study shall be for 100 marks.
 - (b) In the case of the special paper (paper 8) there shall be a dissertation for 75 marks, and a viva voce for 25 marks to be assessed at the end of the final year.
 - (c) 25% marks of both theory and practical papers shall be kept apart for continuous assessment to be conducted by teacher incharge based on quiz, objective tests, assignments, seminars and laboratory tests.
6. For passing the examination a candidate will be required to obtain not less than 40% marks in each paper in both theory and practical.
- 7- A candidate who obtains 40% in aggregate but less than 48% will be awarded M.Sc.(Pass). If he/she obtains 48% or more marks he/she will be eligible to obtain M.Sc. Degree with a class as specified below.

Contd/...

A candidate who obtains 48% and above but less than 60% shall be declared to have passed in second class and a candidate who obtains 60% and above shall be declared to have passed in the first class.

9. (a) If a candidate fails in one or two papers at M.Sc. (Previous) examination he/she will be allowed to join M.Sc. final year but he/she will have to clear those papers in subsequent examinations. He/She however, will not be given more than two additional attempts.
(b) If a candidate fails in one or two papers in M.Sc. (Final) he/she have to clear those papers in subsequent examination as a casual student. He/She however will not be given more than two additional attempts.
10. Each year shall be for a period of 12 months. The commencement and termination dates of a year shall be fixed by the Director, Zoological Survey of India in consultation with the Vice-Chancellor.
11. Examiners or Board of Examiners shall be appointed for each paper by the Board of the School of Life Sciences and by Director, Zoological Survey of India.
12. A candidate shall apply for admission to the examination in the prescribed form to the Dean of the School of Life Sciences through the Director, Zoological Survey of India. Such applications shall have to be accompanied by certificates indicating -
 - (a) The candidates clearance in continuous assessment.
 - (b) The clearance of his dues including the prescribed examination fees.
13. The results for M.Sc. (Previous) and M.Sc. (Final) shall be placed before the Dean of the School of Life Sciences for approval.
14. The syllabi and courses of study for M.Sc. degree in Zoology shall be such as approved by the Board of the School of Life Sciences on the recommendation of the Boards of Post-Graduate studies of the Departments of Zoology and Director, Zoological Survey of India.
15. English shall be the only medium of instruction and examination in the M.Sc. Zoology courses.
16. (a) The M.Sc. Course in Zoology shall consist of papers exclusively given by the Faculty of the Department.
(b) The following shall be the schedule of courses prescribed for study in the M.Sc. course in Zoology until otherwise specified.
(c) In an academic year there will be 600 hours of theoretical classes and approximately 540 hours of practical classes.

Syllabus for M.Sc. degree in Zoology of the North-Eastern Hill University for Z .S I. candidates.

T H E O R Y

M.Sc. (Previous)

Paper - I

Systematic Zoology

Objectives. History. Terms and definitions. Science of taxonomy. Principles of zoological classification and its theories. Hierarchy of categories. Supraspecific taxa. Species category-definition and concept. Intraspecific and population systematics. Chemotaxonomy, cytotaxonomy and numerical taxonomy. Zoological collection for taxonomic studies - methods of collection, preservation, maintenance, etc. Recording, collection and utilisation of field-data. Procedure of identification - evaluation of taxonomic characters - variations - taxonomic decisions on the species level. Procedure of classifying. Preparation of taxonomic publications. Code of zoological nomenclature.

Paper - 2

Organic Evolution

History of development of evolutionary thought - pre-Darwinian, Post-Darwinian and recent. Theories of organic evolution. Evidence of organic evolution. Impact of evolutionary theories on contemporary thoughts. Present status. Mechanism of evolution - Natural selection - Artificial selection - Mutations, natural and induced - Inheritance of characters - adaptations. Factors of organic evolution- Barriers, physical, ecological, physiological, etc. Geographical distribution. Biochemical evolution. History of life on the earth - palaeontology and palaeogeography.

Contd/...

Paper - 3

Ecology and Environmental Biology

Definitions and ecological concepts. Abiotic and biotic factors. Population - growth, density, relationships, interactions, competition, cohabitation, co-existence allopathy. Physiological ecology Ecological speciation - plasticity, ecotype differentiation. Concept of community. Ecosystem -dynamics - food-chain - food and feeding cycles - energy flow - biogeochemical cycles. Productivity. Pollution of the environment.

Conservation of natural resources, Human ecology, Problems of urbaniza-tion. Problems of population explosion vis-a-vis environmental changes. Human sociology and global monitoring of the environment. Man in health and disease, their impact on the environment. Man as a member of the biome.

Paper - 4

Invertebrates - I

Biology, classification, etc., of Protozoa, Porifera, Cnidaria, Ctenophora, Mosozoa, Platyhelminthes, Nemartini, Aschehminthes, Acanthocephala, Entoprocta, Annelida, Echiurida and Sipunculida.

M.Sc. (Final)

Paper - 5

Invertebrates - II

Biology, classification, etc., of Arthropoda, Mollusca, Priapulioidea, Sryozoa, Phoronida, Brachiopoda, Chaetognaths, Pogonophora and Echinodermata.

Paper - 6

Protochordates and Poikilothermous vertebrates

Biology, classification, etc., of Adelochoadata, Tunicata, Aorania, Agnatha, Placodermi, Elasmobranchii, Osteichthys, Amphibia and Reptilia.

Contd/..

Paper - 7

Part I

Homoiothermous Vertebrates

Biology, classification, etc., of Aves and Mammalia.

Part - 2

Animal Physiology

Structure of cell.

Carbohydrates, Proteins and Fats, their digestion and their metabolism.

Vitamins

Nervous system - Structure of nerve cells, mechanism of transmission of nerve impulse.

Endocrinology - Important endocrine glands, the role of important hormones in homoiotherms.

Paper - 8

Special Paper by dissertation

On any of the following :

- a) Entomology
- b) Carcinology
- c) Helminthology
- d) Ichthyology
- e) Ornithology
- f) Mannalogy
- g) Wildlife Conservation
- h) Ethology

P R A C T I C A L

M.Sc. Previous

Preparation of dichot rous keys - Preservation of the live animals given.

Determination of p^H dissolved oxygen, free carbon dioxide, total alkalinity, methyl orange alkalinity, phenolphthalein alkalinity, total hardness, calcium, magnesium and chloride ions, dissolved organic matter of different water system - collection and study of freshwater organisms (planktonic), soil fauna and litter inhabiting arthropods.

Contd/...

Identification of different groups of Protozoa, Porifera, Chidaria, Ctenophora, Platyhelminthes, Nemartini, Aschelminthes, Acanthocephala, Entoprocta, Annelida, Echiurida, and Siphunculida.

Preparation of temporary/permanent slides of Protozoa, Chidaria, Platyhelminthes, spicules of Porifera and ovary and setae of Annelida.

Dissection of nervous, alimentary and reproductive organs of earthworm.

Microtomy; Embedding, preparation of wax blocks, section cutting, mounting, staining and permanent preparation of slides of Platyhelminthes, Nemartini, earthworm and some organs of frog.

M.Sc. Final

Identification of different groups of Arthropoda, Mollusca, Priapuloida, Bryozoa, Phoronida, Brachiopoda, Chaetognatha, Echinodermata, Adelochochordata, Tunicata, Acrania, Agnatha, Elasmobranchii, Osteichthys, Amphibia, Reptilia, Aves and Mammals.

Dissection of appendages and nervous system and mounting of statocyst of prawn - Dissection of nervous system of crab - Dissection of nervous and reproductive organs and mounting of mouthparts, salivary glands and testes of cockroach - Dissection of nervous and reproductive systems of scorpion - Dissection of nervous and digestive systems of Pila, freshwater mussel, Mytilus, Sepia/Loligo - Mounting of Aristotle's lantern of Echinus and tube feet of star fish.

Dissection of nervous and arterial systems and internal ear and mounting of ampullae of Lorenzini and placoid scales of shark - Dissection of nervous and circulatory systems of Calotes - Dissection of nervous system, flight muscles, arterial system, air-sacs and mounting of pecten of pigeon - Dissection of nervous and circulatory systems and mounting of ear ossicles of guinea pig.

Tests for digestive enzymes p^H tolerance, salinity tolerance temperature tolerance. Humidity tolerance on terrestrial animals.

Practical examination will be 4 hours duration on consecutive days in M.Sc. Previous and Final.

Proposed names of Scientists of the Zoological
Survey of India, Calcutta, for teaching M.Sc. Zoology
.....

1. Dr. S. Khora
Deputy Director-in-Charge
2. Dr. K.K. Tiwari
Deputy Director
3. Dr. B. Biswas
Deputy Director
4. Dr. O.B. Chhotani
Superintending Zoologist
5. Dr. A.K. Mukherjee
Superintending Zoologist
6. Dr. R.P. Mukherjee
Superintending Zoologist
7. Dr. V.C. Agrawal
Superintending Zoologist
8. Dr. P.K. Talwar
Superintending Zoologist
9. Dr. A.K. Datta
Zoologist
10. Dr. R.K. Kacker
Zoologist
11. Dr. S.K. Mitra
Zoologist
12. Dr. G.C. Rao
Zoologist
13. Dr. S.K. Tandon
Zoologist
14. Dr. A.N.T. Joseph
Zoologist
15. Dr. Amal Bhattacharyya
Zoologist
16. Dr. P.T. Cherian
Zoologist
17. Shri N.V. Subba Rao
Zoologist
18. Shri P. Dhandapani
Zoologist
19. Dr. R.A. Khan
Zoologist

Facilities available for higher research in the Zoological Survey of India, Calcutta.

Zoological Survey of India, Calcutta, has been recognised by the Standing Committee of the Inter-University Board of India, as an Institution for research for post-graduate degrees. Many Universities in India have already recognised Zoological Survey of India as a centre for research leading to the award of Ph.D./D.Sc. degrees. Some of the Universities which recognise Zoological Survey of India are: Agra University, Banaras Hindu University, Bombay University, Madras University, Poona University, Punjab University, Rajasthan University, Karnataka University, Sri Venkateswara University, Vikram University, University of Baroda, Kerala University and Andhra University. Besides these, many new Universities also recognise Zoological Survey of India for post-graduate research.

The Zoological Survey of India is one of the premier institutions where researches on Taxonomy, Zoo-geography (including faunistic studies) Ecology, Animal Behaviour, Wildlife, Animal population, Palaeozoology, (both Vertebrates and Invertebrates), Soil Zoology, Cytotaxonomy and Cytogenetics, Nematode culture, Bird migration and ringing studies and all the allied Zoological disciplines directly related to Systematic studies are conducted on almost all the groups of animals.

Zoological Survey of India (at Calcutta) possesses the largest Zoological reference collections of India comprising of about 9,00,000 identified specimens belonging to about 45,000 species. Besides reference collections, it is big repository of type collections of different groups of animals which is essential prerequisite for advanced taxonomical researches. Library of the Zoological Survey of India contains the largest number of zoological books, periodicals and other publications in the country. It contains over 40,000 volumes of journals, books on Zoology in different languages. About 800 zoological periodicals are received regularly in the library every year. Free consultation of library material is available to all the departmental, governmental, semi-governmental and recognised individual scientific workers. Thus two basic requisites for advanced taxonomic and Systematic research work, viz., (i) reference collection of Zoological specimens and (ii) literature, are readily available at the laboratories of Zoological Survey of India. The much needed and desired zoological collections for research work are available through the regularly conducted intensive and extensive faunistic surveys by the specialist scientific staff of the Survey from all over the country including adjacent and neighbouring countries (e.g. Sikkim, Bhutan, Nepal, Bangladesh, Burma, Sri Lanka, etc.,)

Zoological Survey of India has its own publication division, where records of zoological survey and memoirs of zoological survey are published regularly. Besides, bibliography of Indian Zoology and other miscellaneous publications are also

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issued. The work connected with the publication of Monographs on Indian fauna under the series "Fauna of India" is also conducted by the Zoological Survey of India.

Department has a number of Junior and Senior Research Training fellowships under the "Post-graduate Training Scheme" and these have been availed of by the Research Scholars from different Universities leading to the award of Ph.D. degree after getting themselves duly registered in the concerned Universities. Under the training system, instructions on the general principles of taxonomy including practical training in faunistic studies in given area is imparted. Discussions on biosphere in relation to man, interrelationship between animals and plants, wildlife conservation are the part of the curriculum. Syllabus for training includes Taxonomy, its history and functions, relation of systematic to the other branch of biology; future of systematic; species and infraspecific categories; biological species concept; classification and the higher taxonomic categories; procedures in Taxonomy (collecting and collections, labelling, care of taxonomic collections, cataloguing, types of museum collections, research collections et.); Identification and taxonomic discrimination; taxonomic characters; quantitative methods of analysis; taxonomic publications principles and application of zoological nomenclature and characters employed in taxonomy and systematics of certain groups and their evaluations. Practical training is imparted in use of drawing and optical devices, field and laboratory apparatus, critical study of selected groups of animals; documentation and bibliographical work; preparation of manuscripts, checklist, catalogues, taxonomic keys; survey reports, field data book and tour reports etc.

Expertise in various subjects is available both at the headquarters at Calcutta and its eight regional stations and Marine Biological Station situated at Dhara Dun, Jabalpur, Jodhpur, Poona, Solan, Madras. Facilities for faunistic work and ecological work are available at all the regional stations of Zoological Survey of India and the headquarter. Department has carried out more than 700 faunistic surveys both major and minor. Enormous collection is available for study.

Organisational set up of Zoological Survey of India is given in the enclosed brochure.

It is needless to say that Zoological Survey of India, is a full-fledged bureau of Systematic Zoology. It can offer the best organised facilities for research work in faunistic, systematics, ecology, Zoo-geography, Comparative morphology, wildlife conservation, animal behaviour, etc.

Extracts from the Minutes of the meeting of the Executive Council held on 29 November, 1975 :

AND BOTANICAL
EC9:75:73 REQUEST FROM THE ZOOLOGICAL/SURVEY OF INDIA

The Zoological Survey and Botanical Survey of India have requested for recognition of their regional stations as centres of higher research. The request was considered by a Sub-Committee which met at Shillong on the 6th May, 1975. The Zoological Survey have not made a further proposal that the NEMS may recognise M.Sc. course in Zoology to be conducted by the Headquarters of the Survey at Calcutta. Considering the facilities and specialisations obtaining in the regional stations for higher research, the Executive Council was generally in favour of recognising them for higher research as recommended by the Sub-Committee. But they felt that since the Headquarters of the Survey fell within the jurisdiction of other universities and important academic issues were involved in the proposal, the matter may be considered by the Academic Council.

Extracts from the Minutes of the meeting of the Academic Council held on 26.4.1976.

AC2:76:08(a) NOTES FROM THE EXECUTIVE COUNCIL

Sub: Requests from the Zoological and Botanical Surveys of India.

All the three items on this request were considered by the Academic Council.

Regarding item No.2: The Council unanimously agreed to the suggestion for the recognition of Regional Stations of Zoological Survey of India and Botanical Survey of India in Shillong as centres for higher research. However it was suggested that all the rules and regulations applicable to the research followed in the School of Life Sciences shall also be applicable to these centres.

Regarding items 1 & 3, the Council was of opinion that it is not advisable to recognise the I.Sc. course and the Zoological Survey of India Headquarters for higher research since both these requests involve recognition of programmes outside the jurisdiction of NEHU and as such were not considered favourably.

Page No. 105

Item No. 31

Recommendation of the Viva Voce Board in respect
of Shri Sunil Chandra Dutta of History Department

The Viva Voce Board held on the 13th of Nov., 1961,
in respect of Shri Sunil Chandra Dutta has submitted a
report and recommendation that the candidate be awarded
the Degree of the Doctor of Philosophy of the North-Eastern
Hill University for his well researched Thesis and his
excellent performance in the Viva Voce Examination.

The Academic Council may, therefore, approve the
same.

Panel of Examiners.

The Panel of Examiners for examining the Ph.D. Thesis of the undermentioned candidates of Zoology Department is placed before the Academic Council for its consideration and recommendation to the next meeting of the Executive Council.

NAME OF THE CANDIDATE.

1. Shri Nabendu Dhar.
2. A.K.Z. Ahmed.

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Page No. 107

Item No. 33

To consider award of Doctor of Philosophy
(Ph.D.) Degrees to the candidates of the
Department of Zoology -

The two Viva Voce Examination Boards held in
respect of Shri S.N. Ramanujan and Kun. Sukhbeer Kaur, the
Ph.D. candidates of Zoology Department, have recommended
for the award of the Degree of Doctor of Philosophy
to them.

The Academic Council may, therefore, approve the same.

ITEM NO 34

OPENING OF POST GRADUATE CLASSES AT TURA

The 14th Annual General Conference of the Garo Graduates' Union held at Tura from 5th to 7th October 1981 resolved as follows:

Resolution No. 17: DEMAND FOR OPENING OF THE POST GRADUATE CLASSES AT TURA.

"Whereas, this Conference noted with regret that the previous demand of this Union in its Annual General Conferences for opening of the Post Graduate Classes at Tura has not yet been fulfilled by the authorities of the North Eastern Hill University.

It is therefore unanimously resolved to reiterate the previous demand of the Union for establishment of the Post Graduate Classes at Tura."

The provisions of NEHU Act 1973, 3(2) provides "The headquarters of the University shall be at Shillong and it shall have Campuses in the States of Meghalaya and Nagaland; it may also establish Campuses at such other places within its jurisdiction as it may deem fit."

The matter is placed before the Academic Council for consideration.

AN EXTRACT COPY OF THE RESOLUTIONS ADOPTED AND PASSED BY
THE 14TH ANNUAL GENERAL CONFERENCE OF THE GARO GRADUATES
UNION, HELD AT TURA FROM 5TH TO 7TH OCTOBER 1981

Resolution No. 17:- DEMAND FOR OPENING OF THE POST GRADUATE
CLASSES AT TURA

Whereas, this conference noted with regret that
the previous demand of this Union in its annual general conferences
for opening of the Post Graduate Classes at Tura has not yet been
fulfilled by the authorities of the North Eastern Hill University.

It is therefore unanimously resolved to reiterate the
previous demand of the Union for establishment of the Post Graduate
Classes at Tura.

Sd/- B. K. Sangma,
President
Garo Graduates' Union,
TURA.

OFFICE OF THE GARO GRADUATES' UNION : HEADQUARTER : TURA - 794001.
WEST GARO HILLS : MEGHALAYA.
(Registered under the Registration of Societies Acts, 1960)
Regd. No. SR/GGU-145/1974.

NO. GGU/R-GC/81/611,

Dated Tura, the 12th Nov./81.

From:- Shri. E.K. Sangma
General Secretary
Garo Graduates' Union, Tura.

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

Sub:- Demand for opening of Post Graduate Classes at Tura.

Sir,

With reference to the subject given above, I am directed by the Union to forward herewith an extract copy of the Resolution No. 17, passed by the 14th Annual General Conference of the Garo Graduates' Union, held at Tura from 5th to 7th October, 1981, for favour of your kind perusal and necessary action.

Action taken on the matter may kindly be intimated to the undersigned.

Yours faithfully,

Sd/-

(E. K. Sangma)
General Secretary

Garo Graduates' Union, Tura.

Memo No. GGU/R-GC/81/612-31

Dated Tura, the 12th Nov./81.

Copy forwarded for favour of information and necessary action to:-

1. His Excellency, Shri Neelam Sanjiva Reddy, president of India and Visitor, North Eastern Hill University (Shillong) New Delhi.
2. Dr. H.N. Sethna, Chairman, Atomic Energy Commission & Chancellor North Eastern Hill University, (Shillong) New Delhi.
3. His Excellency, Shri Prakash Mehrotra, Governor of Assam & Meghalaya & Rector, North Eastern Hill University, Shillong.
4. The Honourable Education Minister, Govt. of India, New Delhi.
5. Shri P.A. Sangma, Honourable Union Deputy Minister, Industry, New Delhi. Chief
6. The Honourable Minister, Govt. of Meghalaya, Shillong
7. Dr. B. Fakem, Honourable Minister, Education, Govt. of Megh, Shillong.
8. Shri B.G.Mömin, Honourable Minister of State, Education, Youths & Sports, Government of Meghalaya, Shillong.
9. The Pro Vice-Chancellor, North Eastern Hill University, Shillong.
10. The Director of College Development Council, NEHU, Shillong.
11. The Registrar, North Eastern Hill University, Shillong.
12. The Director of Public Instruction, Meghalaya, Shillong.
13. The General Secretary, All India Garo Union, Shillong.
14. The Secretary, All India Garo Union, Tura Regional Unit, Tura Williamnagar Regional Unit, Williamnagar.
15. The General Secretary, Assam & Meghalaya Garo Students' Union Tura / Tura Govt. College Students' Union, Tura.

Sd/- General Secretary
Garo Graduates' Union, Tura

Item No. 35

To consider constitution of a Board of Under-Graduate Studies in Geology -

The Principal, Science College, Kohima, via his letter No. EST/21-82/176, dated 16th July, 1981 (Annexure - 15) requested the University to constitute a Board of Under-Graduate Studies in Geology.

As per the University Ordinances, the Board consists among others, three members not below the rank of a Reader to be appointed by the Academic Council.

The nomination and appointment of the three members is, therefore, put up to the Council for its consideration.

The other members who have been proposed to constitute the Board are :

- External Experts :-
1. Prof. D.N.D. Goswami,
Professor & Head, Department of Geology, Gauhati University, Gauhati.
 2. Dr S. Vavadarajan,
Professor & Head, Department of Geology, Delhi University, Delhi.

- Teachers of affiliated Colleges :
1. Shri S.N. Sharma, Lecturer & Head
Department of Geology, Science College, Kohima.
 2. Shri B. Dutta, Lecturer, Department of Geology, Science College, Kohima.
 3. Shri G. Kalita, Lecturer,
Department of Geology, Science College, Kohima.
 4. Shri B.N. Baishya, Lecturer,
Department of Geology, Science College, Kohima.
 5. Shri J.N. Sharma, Lecturer,
Department of Geology, Science College, Kohima.

- - -

GOVERNMENT OF MEGHALAND
OFFICE OF THE PRINCIPAL :: SCIENCE COLLEGE :: KOHIMA ::
MEGHALAND

R. EST/31-82/176

Date at Kohima, the 16th July, 1981.

To

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

Sub:- Geology - Board of Studies, courses of study, evaluation, etc.

Sir,

Towards improvement of standard/quality in Geology upto degree level, I have the honour to express the following for your consideration and necessary early action:

A. Formation of Board of Under-graduate Studies in Geology :-

- i) For the last 4-5 years, there is no board of under-graduate studies in Geology. The Department of Geology feels that the board should be formed immediately. The college has written several times to the University for formation of the board and also brought it to the notice of Dr Dhan, a former V.C. during his visit to this college.

It is also felt that some modifications of the present courses on Geology prescribed for both P.U. and B.Sc. are necessary. But this has not been possible so far in the absence of the board.

B. Examination on Geology :-

- i) It has been observed that the questions for P.U., B.Sc (Pass) and B.Sc. (Hons) examinations have not been properly set on many occasions in the past and as a result the students have suffered. Perhaps, while setting questions, syllabi courses are not consulted duly.
- ii) In this connection, it is suggested that the teachers of under-graduate studies with experience/integrity should be associated with setting of question papers and evaluation of answerscripts. This will also help the teachers know where their students stand and their defects and this will ultimately help in improving the standard of teaching.
- iii) The Geology Department of Science College, Kohima has the following teaching staff. At least a few of them may be associated with the setting of question papers and evaluating the answerscripts of P.U. and B.Sc. (Pass)

Contd/...

and of atleast 2(two) papers of the B.Sc.(Hons) examination.

1. Shri R.N.Sarna, Head of Department.
2. Shri B.Dutta, Lecturer.
3. Shri G. Kalita, Lecturer,
4. Shri B.E.Baishya, Lecturer,
5. Shri J.N.Sarna, Lecturer,

iv) Further it is suggested that internal examinership for practical examinations should be offered in such a way that every body gets a chance in order of seniority. This year, the following acted as internal/external examiners.

I.U. Exam : External - Shri Kirenwati.
Internal - Shri B. Dutta.
B.Sc.(Pass) Internal - Shri G. Kalita
Exam.
B.Sc.(Hons) V.Paper - Internal - B.Dutta.
B.Sc.(Hons) VI Paper - Internal - R.N.Sarna.

This shows that some get two appointments while some are deprived of it.

It may also be noted that this is the only college under NEHU offering Geology as a subject.

Yours faithfully,

Sd/- Kirenwati
Principal,
Science College, Kohima, Nagaland.

Item No. 36

To consider granting permission to start
Honours in Geogra-phy in Fazl Ali College -

The Principal of the Fazl Ali College has applied permission for starting Honours in Geography from 1981-82 session. Dr R.K.Rai, Head of Geography Department, ANHU, had inspected the college and submitted the Inspection Report. He strongly recommended that the Fazl Ali College be granted permission to start Honours course in Geography.

The Report of the Inspection Commission is placed as Annexure - 16 for consideration of the Council.

INSPECTION REPORT OF GEOGRAPHY DEPARTMENT:: FAZL ALI COLLEGE::
MOKOKCHUNG (HAGA LAND) :: REGARDING OPENING OF GEOGRAPHY
HONOURS FROM 1981-82

In my capacity as One-Man Inspection Commission, I inspected the Geography Department, Fazl Ali College, Mokokchung, on 28th October, 1981 and found that the particulars furnished by Geography Department and Principal, Fazl Ali College fulfil the necessary requirements given under Section 6(B) of NEHU Ordinances for opening of Geography Honours.

During inspection of the Department, I found that the basic requirements of books, practical equipment, etc., for Honours course are available there. Principal has agreed to purchase some more equipment. Some more space will also be provided to run Honours classes. It is also recommended that as in Honours course there will be special papers; so more books must be purchased. To keep touch with new advances in the subject, it is recommended that college should subscribe some Geography journals for the Library.

As a part of practical work in Geography Honours, there will be field work as well as lab. work; so to, look after the Laboratory and to assist in field work there must be one Lab. Assistant in the Department.

At present, Fazl Ali College is Arts College. The present strength of the teaching staff in the Department is three only, which is minimum required staff to start the Honours course. As Geography is a lab. oriented subject, therefore, it immediately needs an additional Lecturer to share the teaching load, while in 2nd year one more Lecturer will be needed. So College must appoint another Lecturer before it starts 2nd semester. Principal has already made clarification about staff position. According to him, one Lecturer post, he will get immediately and for 2nd Lecturer's post he will insist to the Government.

Thus, on the basis of particulars furnished by the Principal of the college and as a result of my inspection of the Department I strongly recommend that the Fazl Ali College be granted permission to open the Honours Course in Geography.

Dated 23rd November, 1981.

Sd/- R.K.Rai,
Head, Department of Geography,
NEHU

Item No. 37

Amendment of Clause 13 of the Academic
Ordinance relating to Master Degree
Programme in Arts, Science & Commerce

The Academic Council at its 10th meeting held on 15th May, 1961, has considered and adopted the Regulations on M.A./M.Sc./M.Com/M.Ed Examinations applicable to students admitted from the academic session 1960-61 to supplement the Academic Ordinances.

Clause 4 of the said Regulations states as under :-

"To be eligible for Master's Degree, a student must secure a minimum of 40% marks in the aggregate of all courses. In determining the aggregate marks, the marks he has obtained in both the sessional work and semester examination will be taken into account. To clear a course a student must secure a minimum of 35% marks in the course".

The Academic Council resolved that in order to make the Regulations operative, Clause 13 of the Ordinance to be amended. The Clause as it was before and after amendment is reproduced below for the information of the Council.

<u>Original Clause</u>	<u>Clause after amendment</u>
13.(a) In order to qualify for the Master Degree in the subject a candidate must have secured at least 50% marks or equivalent grades in the aggregate for all courses, and 40% marks or equivalent grades in each of the course.	13.(a) In order to qualify for the Master's Degree a candidate must have secured at least 40% marks or equivalent grades in the aggregate of all courses, and 35% marks or equivalent grades in each course.
13.(b) A candidate who obtain 40% marks or equivalent grades or above in the aggregate of all courses but below 50% may be permitted to repeat any course or courses and to participate in the sessional work and the semester examinations in order to improve his performance. If the candidate	13.(b) A candidate who obtains 40% marks or equivalent grade or above in the aggregate of all courses but below 50% marks or its equivalent grade may be permitted to repeat any course or courses and to participate in the sessional work and the semester examinations in order to improve his performance.

Contd/...

obtains 50% in the aggregate within two semesters after the fourth semester of being admitted to the Programme the candidate will be eligible to obtain the Degree with a division as specified in Clause 10(14) below. If such a candidate is unable to improve his performance he shall be awarded the Degree without a division.

The conditions for repeating a course or courses shall be prescribed by Regulations.

The proposed amendment after it was approved by the Executive Council was sent to the Ministry of Education & Culture and the latter in their letter No.F.8-47/81-Desk(U), dated 5 November, 1981, have requested the University to clarify the reasons for lowering of marks so as to enable the students to get Master Degree.

Hence, the matter is placed before the Council for clarification.

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Item No. 38

To consider the panel of experts for examining the Ph.D. Thesis of the candidates of the Departments of Botany and Philosophy, NEHU

The panel of examiners for examining the Ph.D. Thesis of the undermentioned candidates are placed below for consideration of the Academic Council and recommendation to the next meeting of the Executive Council.

<u>Name of the candidate</u>	<u>Department</u>
1. Miss Jriai Siben Kharbteng	Botany
2. Mr. J.S. Janir	"
3. Mr. N.K. Verma	"
4. Miss Shephali Panigrahi	Philosophy

The panel will be tabled by the Chair.

Item 39

The panels of Examiners for examining the
Theses of the undermentioned M.Phil Candidates of
Political Science Department are placed before the
Academic Council for its consideration and recommend-
ation to the next meeting of the Executive Council.

NAME OF THE CANDIDATE

1. Shri S.H. Pautu.
2. Kum. Saidun Nessa.

The panel will be tabled by the Chair.

Item No. 40

Sub : Granting of permission to open B.A. in Kolasib College in Ist Year Class.

The Principal of Kolasib College applied for permission to start B.A. Iyear Class in Kolasib College from 1981-82 session. He had obtained the permission of the Govt. of Mizoram for this purpose. The University had sent two-member Inspection Commission consisting of Prof. D.P. Singh, Dean and Head of English Deptt. and Dr. S. Hom Choudhury, Reader of the same deptt.

Normally the college can start Degree Class from 1982-83 session under the NEHU Ordinance for Affiliation Clause 6 (A) (i) because the first batch of P.U.C. of that College appeared in the Final Examination in 1980.

The Commission recommended that the College be granted provisional affiliation upto degree level in the subjects being currently taught at the Pre-University level; i.e. Eng/Mizo/Alt.Eng/Hist/Pol.Sc/Eco/Edn.

The full report and recommendation of the Inspection Commission is placed before the Academic Council for its consideration. The Report can be seen at Annexure-17.

...

INSPECTION REPORT IN RESPECT OF KOLASIB
COLLEGE, MIZORAM FOR DEGREE AFFILIATION

We inspected the College on the morning of August 23, 1981. We met the Principal who explained the present position of the College, the plans for its development, and took us round, showing the class-rooms, the library and everything else that we needed to see in order to acquaint ourselves with all the aspects of the institution. He also introduced us to the teachers of the various department.

We elicited all relevant information from the Principal and our findings are as follows:

1. Affiliated upto the Pre-University level, the college is a little over 3 years old, having been established in July, 1978. It counts upon 15 feeder schools. And it is the only College in a far-flung area the inhabitants of which look to this College for the Collegiate education of their children, as most of them simply do not have the means to support the education of their children elsewhere.
2. The total enrolment of students is 193, the break-up being as follows :

P.U. 1st year	- 67
P.U. 2nd year	- 56
B.A. 1st year	- 43
B.A. 2nd year	- 27

In 1979 the enrolment was 120 which rose to 167 in 1980 and further to 193 in 1981.

3. The College is at present housed in a school building at the heart of the town and sits from 6a.m. to 8.40. a.m.

Contd..... 2/-

The authorities, however, have acquired land on two sites for the construction of permanent buildings for the College. The first site has 10 bighas and the second 4 acres of land. Construction is under way on the second site.

The present accommodation of the College is as follows :

4 class-rooms each measuring 30" X 18" and capable of accommodating 70 students.

1. Office room.
- 2 Library-cum-staff room and
- 3 room for the Principal.

4. The faculty position is as under:

- 2 Lecturers in English
- 1 Lecturer in Political Science
- 1 Lecturer in History
- 1 Lecturer in Education
- 1 Lecturer in Economics
- 1 Lecturer in Mizo

All the lecturers fulfil the minimum requisite qualifications prescribed by the U.G.C..

The Principal is an M.A. (Pol.Sc)., B.T.

In addition to the existing staff, the authorities have already selected one Lecturer for English, one for Political Science, and one for Economics. For this purpose the funds will be made available by the Government as soon as the University grants the College affiliation upto the Degree level.

Further appointments are under contemplation.

5. The teachers are paid their salary from funds made available by the Mizoram Government, the scale being Rs. 700 - Rs. 1300/-

6. The teaching load is as follows:

English	- 17	periods	per	week
MIL	- 15	"	"	"
Economics	- 16	"	"	"
Education	- 16	"	"	"
Pol.Sc.	- 16	"	"	"
History	- 16	"	"	"

7. Library - The College has an impressive Library considering that it was established only three years ago. Not in many newly established Colleges does one come across the kind of holdings this Library has. It has a good collection of standard works in different subjects apart from the text-books as detailed below:

Pol. Science	- 271	copies	MIL	- 196	copies
English	- 127	"	Economics	- 129	copies
History	- 273	"	Education	- 100	"

The College obtained from the Mizoram Government a Library grant to the tune of Rs. 18,000/- in the year 1979 - 80. On an average an amount of Rs. 3,000/- to Rs. 4,000/- is available for the Library annually from the Government.

8. The College claims a reserve fund of Rs. 60,000/- in the Bank.

9. Governing Body: The College has a Governing Body consisting of 11 members with the S.D.O. as the Chairman. Dr. (Mrs) Padma of the University Department of Education, Aizawl Campus and Mr. Lianzole, Lecturer in the Pachhunga University College are on the Governing Body.

- 4 -

Considering that the College has a regular site on which construction is on, that it has a substantial reserve fund, that it has a fairly good Library which is being further enriched, that the authorities are actively considering expansion of the faculties and that it is the only College, as pointed out before, that can cater to the ever-growing needs of a full collegiate education in the area, we strongly recommend that the College be granted provisional affiliation upto the Degree level in the subjects being currently taught at the Pre-University level.

Sd/-

(D.P. Singh)

Dean, School of Languages
Professor & Head, Deptt. of English

Sd/-

(S. Homchaudhuri)
Reader

Department of English

Dated _____

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Item No. 41

To consider the Minutes of the Board of Under-Graduate Studies in Commerce held on 31st October, 1981 -

The Board of Under-Graduate Studies in Commerce in its meeting held at Kohima on the 31st October, 1981 had recommended the following :

1. The re-structure of the existing B.Com Pass and Honours Courses.
2. It also considered the representation of the under-graduate students of Dimapur College Dimapur (Annexure - 18) and recommended that the aggregate requirement for pass course be fixed at 33%.

The Minutes of the Board is placed as Annexure - 19 for consideration of the Council.

To

The Vice-Chancellor
North-Eastern Hill University
Shillong. - 793 001

Sub

Sub : A SOLEMN APPEAL TO LOOK IN THE DISPARITY
PREVAILING AT PRESENT IN THE AGGREGATE PASS
MARKS BETWEEN THE B.A. EXAM. (B.Sc TOO) AND
THE B.COM EXAM. OF NEHU AND FOR THE REDRE-
SSAL THEREON :

Hon'ble Sir,

We on behalf of the Commerce student of Dimapur College approach you with the appeal as stated below and fervently pray for the sympathetic envisagement about the same.

That Sir, the present system of using two criteria of aggregate pass marks towards the declaration of the Roll Nos of the successful candidates appeared in different streams in the degree level is quite disheartening so far as the Commerce students in degree level are concerned. It is astonishingly discouraging that the minimum aggregate pass marks for B.A. and B.Sc. Student is 33% and that of B.Com. students is 36% Students graduating in either of these three streams are treated at par in the employment frontier and other-wise. But the disparity of 3% in the aggregate marks stand markedly in the way of average-calibred, Students, may one has to be declared 'failed' al so in case of shortage.

Furthermore, the B.A. Students are aware with another advantage compared to B.Com. Students. Degree Students in the Arts stream have to appear in three papers in Economics (Pass course) and they are required to secure 100 marks in total out of 30 marks in all the three papers. But their counter part in the commerce stream has to suffer a stumblingblock in that for B.Com. Exam. There are two papers, each paper with 100 marks, in Economics and they are to obtain minimum pass marks of 25 in each paper. We, the students, note with a poignant dissatisfaction such kind of anomalies prevailing in our beloved University.

Contd..... 2/-

Under the prevailing circumstances of disparity that we pin-pointed above, we, the students of Commerce in the degree level, approach your sagacious self and are fervently in anticipation that the disparity would be redressed at your earliest. It goes without saying that this differential treatment is quite frustrating in nature with the commerce Students of degree level of NEHU.

A copy of the resolution adopted on 14.11.80 in the meeting of the Commerce Students of Dimapur College is also enclosed herewith.

A prompt communication in response to our letter from your end will highly be appreciated.

Thanking you in anticipation.

Yours most obediently,

1. Sd/- P. MAHATHUNG JAMIR B.COM. II YR.
2. Sd/- N. KIYAI YEPHO B.COM.
3. Sd/- ZHASALLE ANGAMI B.COM. I YR.
4. Sd/- SANJAY AGARWAL B.COM. I YR.
5. Sd/- NIKHASILE V. CHOPHI B.COM. I YR.

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Minutes of the second meeting of the Board of Under-Graduate Studies in Commerce held at 12.30 P.M., on 31st October, 1981 in the Chamber of the Head of the Department

The following members were present :

1. Dr D.K.Tandon,
Head of the Department of Commerce, NEHU,
Jagland Campus, Kohima (in the Chair).
2. Shri T. Vihienuo,
Lecturer, Department of Commerce, NEHU,
Jagland Campus, Kohima.
3. Shri A.H.Paul,
Lecturer, Shillong College, Shillong.
4. Shri B.K.S-arkar
Lecturer, Dinapur College, Dinapur.
5. Dr B. Lahkar,
Principal, Commerce College, Gauhati.
6. Dr A.K.Sarma,
Dean, Faculty of Commerce, Gauhati University, Gauhati.
7. Shri D.N.Saikia,
Lecturer, St. Anthony's College, Shillong could not
attend the meeting on health ground.

The Chairman on the outset welcomed the members for attending the meeting of the Board of Under-Graduate Studies in Commerce and thanked them for making it possible to come to Kohima.

1. The Chairman informed the members that the first meeting of the Board of Under-Graduate Studies in Commerce scheduled to be held at the Administrative Building, NEHU, Shillong, on 3rd October, 1981, was adjourned for want of quorum.
2. The Board considered in detail the existing course structure of B.Com Pass and B.Com Honours and after a long deliberation resolved to recommend the following course structure for B.Com.

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Course structure of B.Com(Pass)

- Group A 1. English
2. Other Language - Modern Indian Language/
alternative English.
- Group B 3. Accountancy
4. Auditing
- Group 5. Principles of Economics
6. Indian Economic Problem & Monetary Economics(50:50).
with special reference to Indian Monetary Problem.
- Group D 7. Statistics and Basic Mathematics (60:60)
8. Business Organisation and Management.
- Group E 9. Commercial Law.
10. Secretarial Practice Office/Management
or
Advanced Accountancy
or
Costing and Income Tax
or
Commercial Geography
or
Banking and Currency
or
International Trade and Transport
or
Cooperation and Modern Economic Development
or
Labour Economic and Personnel Management

Course structure of B.Com (Honours)

Students of B.Com may offer Honours course in any of the following groups consisting of three papers of 100 marks each :-

Honours Group A Accountancy

- (i) Advanced Accountancy
- (ii) Management Accountancy
- (iii) Costing and Income Tax.

Honours Group B Business Management

- (i) Principles of Management and Higher control.
- (ii) Management Accountancy
- (iii) Business finance (institutional-finance)
and capitalisation.

Contd/...

Honours Group C.

Banking

- (i) Monetary Economics & Institutional Monetary system and management.
- (ii) Indian Banking and Currency.
- (iii) Law and Practice of Banking.

Honours Group D.

Economics

- (i) Advance Statistics
- (ii) Demography with special references to India
- (iii) Operations Management.

Honours Group E.

Labour Management

- (i) Labour Economics
- (ii) Personnel Management
- (iii) Trade Unions in India Relations.

Honours Group F.

Marketing

- (i) International Trade
- (ii) Marketing Management
- (iii) Marketing in North-East India

It was also resolved that while drafting detailed syllabi, a mention should be made about the North-Eastern Region as and where feasible.

No. B.Com Honours student will be allowed to take the honours group in a paper opted in group E paper No. 10 as B.Com paper.

B.Com Honours students must secure at least 45% marks in each of the papers offered except language (Group A) in which they should secure a minimum of passing marks.

First Class Honours will be awarded to those students who secure 60% marks or more. Second Class Honours will be awarded to those who secure 45% or more but less than 60%.

A candidate who offers Honours but does not qualify for Honours shall be treated at par with candidates offering B.Com Pass course.

3. The representation of the Commerce students of Dinapur College, Dinapur considered at length. It was resolved that the aggregate requirements for B.Com pass course be fixed at 33%

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with effect B .Con examination of 1932. It was further resolved that aggregate marks for each group and individual papers will remain as existing.

4. Resolved that the detailed syllabi be prepared by the Post-Graduate Department and circulated to members. The same may be discussed in the next meeting.

5. The Board was of the opinion that Examination matters be discussed by the Department with the Controller of Examinations and Vice-Chancellor.

6. The external members were of the opinion that the next meeting of the Board be held preferably at Shillong or Dinapur.

The meeting was dissolved at 3.45 p.m., with a vote of thanks to the Chair and the members present.

Sd/- B.K.Tandon,
Chairman,
Board of Under-Graduate Studies
Commerce

Copy to :-

1. The Vice-Chancellor, NEHU.
2. All Members of the Board.
3. The Registrar, NEHU.
4. The Officer Incharge, Academic, NEHU.

Item No. 42

Panel of Examiners - M.Phil/Ph.D.
of History.

The panel of seven Examiners for the M.Phil/
Ph.D. candidates of History Department is placed before
the Academic Council for its approval.

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Inclusion of the Incharge of Education at Kohima and Aizawl Campuses as permanent members of the Board of Post-Graduate Studies in Education.

In order to substantiate the subject matter quoted above, the Reader-Incharge, Department of Educational Research and Studies, Nagaland Campus has put forth the following points :

(i) As new departments have come up at Kohima and Aizawl in NEHU, it has created a new structure of its kind which was not in existence earlier. Therefore, ordinance may kindly be revised or interpreted in the light of new structure of the departments established at two places.

(ii) According to the Ordinance No. 9.1 of the University, there is a scope for taking atleast one teacher who is incharge of the department. He may not be head of the Department but atleast he represents the department being incharge at Kohima or Aizawl. Therefore, his presence on the board of the post-graduate studies is imperative.

(iii) According to the same ordinance, all the professors of the departments shall remain permanent members of the Board. In this context, so far professors have not been appointed at Kohima and Aizawl Campuses, atleast incharge can be a permanent member of the board.

(iv) M.A. Education is the only course which has been provided at Kohima Campus under School of Education in NEHU. If no teacher from the DERS is taken on the board then probably a singular structure of course of studies in M.A. Education, structured at Kohima, may not get fair deal unless one teacher puts up the needs of the department.

(v) Even if under Ordinance, it is not possible to take a teacher from the DEARS Kohima, then your goodself can kindly nominate one person in the light of special discipline and singular course i.e. M.A. Education developed at Kohima under the School of Education in the University.

The matter was then referred to the Dean, School of Education for his views and comments which are reproduced below :-

"The spirit of the letter is well taken, but I should like to inform you that the Reader Incharge DEARS, Kohima was till recently a member of the Board of the Post-Graduate Studies in Education and now the University has nominated the Reader Incharge, DEARS, Aizawl, as per the present ordinance. Further, as you are aware the nomination on the Board of Studies is done as per the ordinances and any change in this context would require a change in the relevant ordinances. Since the restructuring of the P. G. Board of Studies is a policy matter which also involves modification of the ordinances, you may please take up the matter with the concerned bodies if you deem fit.

Under the circumstances quoted above, the matter is placed before the Council for consideration in the light of the following Academic Ordinance 9.1. in connection with the Constitution of the B.P.G.S. :-

ORDINANCE - 9 :

on the Board of Post-graduates Studies in the Department :

- 9.1. The Board of Post-Graduate Studies of each department shall consist of the
- (i) Head of the Department
 - (ii) All Professors of the Department
 - (iii) 2 Readers and 2 Lecturers of the Department by rotation, on the basis of seniority;
 - (iv) Not more than two teachers teaching allied or cognate subjects in other Schools nominated by the Vice-Chancellor on the recommendations of the Department concerned; and
 - (v) Not more than three persons, nominated by the Board of the School who have specialised knowledge in the discipline of the concerned Department and who are not employees of the University or any of its affiliated or recognised Institutions.

Item No. 44

To consider the Minutes of the Board of
Post-Graduate Studies in Commerce -

The Board of Post-Graduate Studies in Commerce in its meeting held at Kohima on the 27th November, 1981, had recommended the course titles in respect of the M.Com. programme. The Board further recommended a modified course title for the Master of Management Studies programme.

The Minutes of the Board is placed at Annexure - 20 for consideration of the Academic Council.

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Minutes of the meeting of the Board of Post-Graduate Studies in Commerce held in the office of the Head, Department of Commerce, NEHU, Nagaland Campus, Kohima on 27th November, 1981 at 11 A.M.

The following attended the meeting :-

1. Dr. B.K.Tandon, Head, Department of Commerce
(in the Chair)
2. Shri T. Vinienuo, Lecturer, Department of Commerce
3. Dr C.L.Anand, Dean, School of Education, NEHU.
4. Dr D.N.Upadhyay, Principal, College of Agriculture, NEHU.

The Chairman at the outset welcomed the members for attending the first meeting of the Board and thanked them for making it possible to come to Kohima at a very short notice.

1. Consideration of the M.Com and M.M.S. Courses :-

After thoroughly discussing the course titles in respect of the M.Com programme as processed and approved by the Department of Commerce, the Board resolved to approve of the same. The finalised course titles together with the scheme of evaluation is given as Appendix- A.

In this connection, the Board pointed out that the details of the course outline prepared by the Department be further discussed in the next meeting of the Board in which the external members might also be present. It was resolved to request the University to nominate the external members to the Board as soon as possible so as to enable to hold another meeting for approving the details of the course outlines.

The Board also considered the detail of the course titles in respect of M.M.S. programme together with the report of the Department already submitted to the University for onward transmission to the All-India Board of Management Studies. The discussion resulted in some changes in the course titles. The modified course titles and the finalised report is given as Appendix - B. While the Board approved of the M.M.S. programme and its course titles it resolved to recommend to the University Headquarters to forward the modified proposal to the All India

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Board of Management Studies immediately as a follow up measure of the action already taken.

2. Matters relating to the changeover from M.Com. to Management Studies :-

The Board noted with satisfaction that the UGC has accorded sanction for instituting the M.M.S. programme in the University. The Board also noted that the Academic Council in its last meeting has resolved to change the name of the Department from the Department of Commerce to the Department of Management and the same was brought to the notice of the 25th meeting of the E.C. held at Aizawl.

The Board after deliberations resolved that the switch over to Management Studies programme be got materialised as soon as possible. In this regard the Chairman informed the Board members that the students in the Department currently studying in Semester I & II have already given an undertaking to the Department that in the event of the change over they will be willing to undertake instructions in any of the requisite additional courses.

3. Matters regarding books and journals:-

The Board reviewed the list of books and journals prepared by the Department and the equipments necessary for running the Department and its programme and resolved to recommend to the University authorities for doing the needful. A list of books and journals together with the items of the instruments required are given in Appendix - C.

Matters relating to Examination :-

4. After deliberations the Board felt that the existing policy of the Department regarding examination to be conducted internally be continued for some more time.

The meeting came to an end at 4.45 p.m. with a vote of thanks to the Chairman and the members present.

Sd/- B.K.Tandon,
Chairman

Board of Post-Graduate Studies, Commerce

Copy to :-

1. The Vice-Chancellor, NEHU, Shillong.
2. All Board Members.
3. The Registrar, NEHU, Shillong.
4. Officer-in-charge(Acad), NEHU, Shillong.

COURSE TITLES FOR MASTER OF COMMERCE
PROGRAMME

First Semester

- Course 1. Managerial Economics I
- Course 2. Business Environment
- Course 3. Management principles and Practice
- Course 4. Public Finance with reference to India

Second Semester

- Course 5. Business Statistics and Economics I
- Course 6. Indian Economic Planning & Development
- Course 7. Managerial Economics II
- Course 8. Organisational Behaviour

Third Semester

- Course 9. Business Statistics and Econometrics II
- Course 10. Management Accounting
- Course 11. Specialisation I
- Course 12. Specialisation II

Fourth Semester

- Course 13. Public Enterprises: Management, Organisation and Efficiency
- Course 14. Cost Accounting
- Course 15. Specialisation III
- Course 16. Specialisation IV

Specialisation Groups

Group A. Finance and Taxation

- 13. Financial Management
- 14. Financial Markets and Institutions
- 15. Corporate Tax Planning and Management
- 16. Tax laws and Accounts with reference to Wealth Tax, Gift Tax, Estate Duty and Sale Tax.

Group B. Banking and Finance

- 13. Monetary Theory and Policy
- 14. Central Banking with special reference to India
- 15. Commercial Banking Policy and Development
- 16. Foreign Exchange.

Group C. Industrial Relations and Personnel Management

13. Industrial Relations
14. Labour Welfare and Legislations
15. Personnel Management
16. Industrial Psychology

Group D. Industrial Organisation

13. Industrial Planning and Development
14. Problems and Prospects of Large Scale Industries
15. Problems and Prospects of Small Scale Industries
16. Industrial Development of North-East India

Group E. Trade and Marketing

13. International Trade
14. International Trade and Monetary Institutions
15. India's Trade Policy and Prospects.
16. Marketing

Group F. Agriculture and Cooperation

13. Farm Management and Accounting
14. Agriculture Marketing
15. Principles of Cooperation and Cooperative organisation
16. Problems and prospects of Cooperative in India.

Students will be required to opt any of the above specialisation groups - each group will have four papers. Paper I and II of any group will be offered in the Third Semester and Paper 3 and 4 of the same group will be offered in the Fourth Semester.

Note:- The students will have choice of specialisation groups only from those groups in which the Department arranges teaching.

Scheme of Examination

The students of Master of Commerce will be examined in the following papers.

Subject	Maximum Marks		
	End Semester Examination	Internal Assessment	Credits
<u>First Semester Papers</u>			
	50	50	4
1. Managerial Economics I	50	50	4
2. Business Environment	50	50	4
3. Management Principles and Practice	50	50	4
4. Public Finance with reference to India	50	50	4
<u>Second Semesters Papers</u>			
5. Business Statistics and Econometrics I	50	50	4
6. India Economic Planning & Development	50	50	4
7. Managerial Economics II	50	50	4
8. Organisational Behaviour	50	50	4
<u>Third Semester Papers</u>			
9. Business Statistics and Econometrics	50	50	4
10. Management Accounting	50	50	4
11. Specialisation I	50	50	4
12. Specialisation II	50	50	4
<u>Fourth Semester Papers</u>			
13. Public Enterprises, Management, Organisation & Efficiency	50	50	4
14. Cost Accounting	50	50	4
15. Specialisation III	50	50	4
16. Specialised IV	50	50	4

The internal assessment will comprise of 2 class tests of 15 marks each, assignment/seminar/term paper/project work etc, for 15 marks and attendance and class participation for 5 marks. The details for internal assessment will be worked out by the Department will be notified to the students in the beginning of each semester.

DRAFT PROPOSAL FOR MASTER OF MANAGEMENT STUDIES PROGRAMME

The Master of Commerce Course, introduced recently in the Nagaland Campus, Kohima has received excellent response from the students of all the States and the Union Territory under the jurisdiction of the NEHU. As a step further to accomplish the object of the University to work for the improving the social and economic conditions and welfare of the people of the North-Eastern Region, there is an immediate need for a more job-oriented and professional course.

The NEHU, therefore, proposes to convert the Master of Commerce course into Master of Management Studies Course (the first of its kind in the North-Eastern region) at the post-graduate department located at Kohima. This course would aim at advancing an atmosphere of entrepreneurship among the first graduates. They would be trained to take up the challenging responsibilities for the integrated development of the area.

1. No. of seats : The No. of students to be admitted for the course is 30.
2. Admission : The admission will be made on the basis of past academic performance, a written test group discussion and interview.
3. Eligibility : The course is open to candidates who have passed Bachelor's Degree Examination in Arts, Commerce, Social Science recognised by the NEHU
OR
Candidates who have passed Bachelor's Degree examination in any branch of Science recognised by the NEHU, OR
Candidates who have passed Bachelor's Degree Examination in any branch of engineering and technology or Mathematics, Statistics, Operation Research recognised by NEHU.
Relaxation of marks will be allowed to the Scheduled Castes Scheduled Tribes as per University rules.
(The details in this regard will be worked out by the Academic Council)
4. Reservation of seats : 1. 40% of seats are reserved for SC/ST candidates meeting the admission requirements as above.

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2. 50% of the seats are reserved for the candidates of the North-Eastern region.
3. 10% of the seats are open for all.
5. Medium of instructions. English
6. Attendance : For the purpose of admission to an examination, a student has to put in at least 75% attendance in each semester in lectures, case discussions, seminars, etc.
7. The proposed programme of study. : Semester - I
 1. Management and organisational Behaviour I
 2. Managerial economics.
 3. Marketing management
 4. Personnel management
 5. Operations management
 6. Financial managementSemester - II
 7. Management and organisational Behaviour II
 8. Economics of North-Eastern region.
 9. Financial and management accounting.
 10. Production management
 11. Management information system.
 12. Statistics and econometricsSemester - III
 13. Legal environment of business (business law)
 14. Management of Public Enterprises in India
 15. Research methodology in business
 16. Specialisation Paper I
 17. - do - II
 18. - do - IIISemester - IV
 19. Management policy
 20. Rural environment with special reference to North-Eastern region.
 21. Specialisation Paper - IV
 22. - do - V
 23. - do - VI
 24. Project study.

Students will be required to opt any one of the following specialisation groups - each group will consist of six papers. The candidates will opt courses 16,17 and 18 of the following groups in third semester and courses 21,22,23 of the same

Contd/...

group in fourth semester.

- Specialisation groups
- A. Production management
 - b. Marketing management
 - C. Personnel management and industrial relations
 - D. Financial management
2. Management of public enterprises in India.

Note. * The details of the courses will be framed later and placed before the Board of P.G.Studies and then before the Academic Council for approval.

8. Duration of courses : I. The course is spread over four semesters (2 years). The students would be required to reside in the hostel provided by the University to facilitate maximum interaction among students and between students and faculty members.

9. Teaching Methodology :

The management studies programme will be conducted where relevant through case dis-cussions, seminars, group exercises, role playing, class lectures, etc.

The candidates for semester examination for the Master of Management studies will be examined in the following papers:

<u>Paper</u>	<u>Subject</u>	<u>Maximum marks</u> <u>End semester</u> <u>examination</u>	<u>Internal</u> <u>Assignment</u>	<u>Total</u>	<u>Credit</u>
1.	Management & Organisational Behaviour-I	50	50	100	4
2.	Management Economics	50	50	100	4
3.	Marketing management	50	50	100	4
4.	Personnel management	50	50	100	4
5.	Operations management	50	50	100	4
6.	<u>Financial management</u>	<u>50</u>	<u>50</u>	<u>100</u>	<u>4</u>

The candidates for semester II examination for the Master of Management studies will be examined in the following papers:

7.	Management & Organisational Behaviour-II	50	50	100	4
8.	Economics of North Eastern region	50	50	100	4
9.	Financial and management accounting	50	50	100	4
10.	Production management	50	50	100	4
11.	Management information system	50	50	100	4
12.	Statistics and econometrics	50	50	100	4

The candidates for semester III examination for the Master of Management studies will be examined in the following papers.

12. Local environment of business (business law)	50	50	100	4
13. Management of Public enterprises in India	50	50	100	4
15. Research Methodology in business.	50	50	100	4
16. Specialisation Paper-I	50	50	100	4
17. - do - II	50	50	100	4
18. - do - III	50	50	100	4

The candidates for semester IV examination for the Master of Management studies will be examined in the following papers:

19. Management policy	50	50	100	4
20. Rural environment with special reference to H.E. Region.	50	50	100	4
21. Specialisation Paper IV	50	50	100	4
22. - do - VI	50	50	100	4
23. - do - VI	50	50	100	4
24. Project study	50	50	100	4

Scheme of examination : There will be an end semester examination in each paper carrying 50% of marks, remaining 50% of marks are assigned for internal assessment, comprising sessional, class performances, reports, term papers, practical examination, etc.

Pass marks and Division : 60% in the aggregate for first division, 50% in the aggregate for second division, 45% with a minimum of 45% in each paper.

Practical Training :-

Each student of Master of Management studies programme will take a practical training under the supervision of a faculty member of the Department or any other person approved by the Department. The organisations for training will be decided by the Department. The period of training will be eight (8) weeks. The performance of the students will be judged on the basis of project report work as course of the 4th semester.

Staff and other requirements :-

1. Teaching staff :-

- A. Professors - 3
- B. Readers - 8
- C. Lecturers - 7

2. Supporting staff :-

- A. Case analyst - 2
- B. Research Associate - 2
- C. Placement Officer - 1

3. Office Staff :-

- A. Office superintendent - 1
- B. Stenographer - 2
- C. L.D.A. - 1
- D. Gestetner Operator - 1
- E. Peon - 2

Contd/...

4. Library staff

- | | | | |
|----------------------------|-----|---------------------|-----|
| A. Assistant Librarian | - 1 | B. Technical Asstt. | - 1 |
| or Professional Assistant | - 1 | | |
| C. Semi-Professional Asstt | - 1 | | |
| D. Junior Library Asstt. | - 2 | | |
| E. Library attendant | - 2 | | |

5. Teaching aids :-

Estimated costs

- | | | |
|------------------------|-----------|-------------|
| A. Film projector 16mm | - 1 No. | Rs 23,000/- |
| B. Desk Calculators | - 10 Nos. | Rs 20,000/- |
| C. Tape recorder | - 1 No. | Rs 1,000/- |
| D. Overhead projector | - 1 No. | Rs 6,000/- |

6. Office equipment :-

- | | |
|---------------------------|-----|
| A. Typewriting machine | - 2 |
| B. Gestetner duplicator | - 1 |
| C. Photo-copying | - 1 |
| D. Telephone installation | - 2 |

7. Other financial requirements :-

- | | |
|--|--------------|
| A. Library books, journals and films including purchase of back volumes of useful periodicals. | Rs 100,000/- |
| B. Recurring grant for library and films | Rs 60,000/- |
| C. Study tour | Rs 30,000/- |
| D. Seminars/Guest speakers | Rs 20,000/- |
| E. Contingency | Rs 8,000/- |

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8. Hostel requirements :-

- A. 100 rooms hostel
- B. Mess caretaker - One
- C. Cook - two
- D. Hostel attendants - four
(To be completed in phases).

9. Transportation requirements :-

- A. Staff car - one
- B. Mini Bus - one
- C. Drivers - two
- D. Cleaner - one

10. Building requirements :-

- A. Library building
- B. Big class rooms - two (seating capacity of 40 students)
- C. Small class room - five (seating capacity of 15 students)
- D. Seminar hall - one (seating capacity of 100 persons)
- E. Room for the Head of Department - one
- F. Rooms for the faculty members - fifteen
- G. Rooms for superior staff - four
- H. Rooms for office - two
- I. Hall for office - one
- J. Students recreation room - one

11. Furniture requirements

Furniture will be required for the entire building.

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Book List

Sl.No.	Author/Editor	Title of Book	No. of Copies
1.	P.J. Curwen	Managerial Economics	10
2.	R.J. Briston & Liver Sidge	Appraactical Approach to Business Investment Decision	4
3.	Julian Gough & Stephen Hill	Fundamentals of Managerial Economics	10
4.	C.J. Hawkins & D.W. Pearce	Capital Investment Appraisal	4
5.	C.J. Hawkins	Theory of the Firm	6
6.	Nail M. Kay	The Inovating Firm Abehavioral Theory of Corporate R&D	4
7.	Rrank Osborn	Cossing and Control of Materials	4
8.	E.D. Tomwhister	Uses and abuses of forced casting	4
9.	R.M. Black Burn	The working class in the labour Market	4
10.	Breen Burkitt and David Bouris	Trade Unions and the Economy	6
11.	L.C. Hunter and D.J. Robertson	The Economics of wages and Labour	6
12.	J.E. King	Labour Economics	4
13.	Andrew L. Friedman	Industry and Labour Class Struggle of work and Monopoly Capitalism	4
14.	Juan Robinson	An Essey on Marxian Economics	4
15.	A. Koutseyiannio	Modern Micro Economics	4
16.	J.L. Ryan	Price Theory	6
17.	David Heathfield	Production Function	4
18.	N.N. Parish	Economical Analysis for Engineering and management decision Making	4
19.	Charles J. Stokes	Economics for Managers	6
20.	Keith V. Smith	Guide to working capital management	4
21.	M.A. Abrahamson	Cooperative Business enterprises	4
22.	Robert B. Brochato	The Management of Eye leges and Public organisations	4

23.	J.K. Lasser	How to run A small business	2
24.	Den. Steinhoff	Small Business Management	2
25.	S.M. Parikh	How to finance a small business Enterprise	2
26.	William J. Brumel	Economic Theory and Operation Analysis	4
27.	Joel Dean	Managerial Economics	4
28.	R.W. Rothschild	Theory of Wages	5
29.	E.A.G. Robinson	Monopoly	5
30.	Dorn Burg & Mc Dougall	Macro Economics	
31.	Ackley Gardner	Macro Economics	
32.	Schumpeter	Theory of Economic Growth	
33.	M.G. Muller	Readings in Macro Economics	6
34.	K.K. Dewett J.D. Verma	Modern Economic Theory	10
35.	Pillas	Economic Theory	6
36.	Hansen	Guide to Keynes	4
37.	Keynes	General Theory	3
38.	H.L. Ahuja	Modern Economic Theory	6
39.	M.I. Seth	Principle of Economic	6
40.	K.K. Kurihara	Monetary Policy	10
41.	D.N. Divide	Managerial Economics	10
42.	Mark Blank	Economic Theory in Retrospect	3
43.	M.L. Seth	Monetary Economics	6
44.	Dr S.C. Sakosana	Business Management & Administration	10
45.	B.C. Mathur	Principles of Management	10
46.	D. Yoder	Personnel Management and Industrial Relations	8
47.	E.B. Flippe	Personnel Management	6
48.	Allen L.A.	Management is Organisation Management	10
49.	L.M. Prasad	Principle and Practice of Management	10
50.	Abad Ahmed	Management	
51.	Andrew J. Dubrin	Fundamentals of organisational Behaviour	10
52.	Abad Ahmed	Management and Organisation Development	6
53.	Surinder P.S. Druthi	Business and Govt	4
54.	Jack Halloram	Applied Human Relations	3
55.	Paul Hersey, Kenneth H. Blanchard	Management of Organisational Behaviour	4
56.	R.S. Dwivedi	Human relations and organisational Behaviour	6
57.	Abraham K. Kerman	Organisational Behaviour	6
58.	Davis Keith	Human Behaviour at work	10.

59.	Haqugh Dacton	Principles of Public Finance	10
60.	Urdilla Kullicks	Public Finance	10
61.	P.F. Taylor	Economics of Public Finance	6
62.	R.A. Musgrave	Theory of Public Finance	6
63.	H.L. Shetia	Public Finance	6
64.	Bruce F. Davis, Bruce F. Duncumbe	Public Finance	6
65.	T. Athew	Tax Policy	9
66.	T. Athew	Economics of Public Expenditure	6
67.	R.H. Casson	Indian, Economy, Society	10
68.	A.B. Mount Jay	The Third World Problems perspectives	4
69.	Tracy Murray	Trade Preferences for Developing Countries	4
70.	C.D. Wadhwa	Rural Bank for Rural, Development	6
71.	Rudar Dutt and Sunderam	Indian Economy	6
72.	N. Agarwal	Indian Economy	6
73.	Meir	Leading Issues in Economic Development	6
74.	Ashok Rudra	Indian Plan Models	4
75.	Ajit J. Das Gupta	Economic Theory and the Developing countries	6
76.	Keith Griffin	Land Concentration and Poverty	6
77.	Nurul Islam	Agricultural Policy in Developing countries (Proceedings of a Conference held by IFC at Bad Godesburg, W. Germany)	4
78.	R.P. Misra, K.V. Sunderam, V.L.S. Prakasa Rao	Regional Development Planning New Strategy	6
79.	K. Kdewet	Indian Economy	4
80.	M.L. Seth	Indian Economy	4
81.	Alokghesh	Indian Economy	4
82.	C. Ganguli	Indian Economy	4
83.	Johstene	Econometrics	4
84.	Croxtan, Cowden and Balch	Practical Business statistics	10
85.	Ya Lumchu	Applied Business and Economics Statistics	10
86.	S.S. Wielk	Elementary Statistical Method	6

87.	Nictorand Wessornan	Fundamental Statistics for Business and Commerce	3
88.	Taro Yamane	Mathematics for Economists	6
89.	Richard L. Mills	Statistics for Applied Economics and Business	6
90.	Sir Roy Allen	Mathematical Economics	
91.	Alexander E. Innes	Business Statistics by Example	4
92.	A. Koutsoyiannis	The Theory of Econometrics	4
93.	A. Walters	An Introduction to Econometrics	6
94.	E.W. Sellokerts	Econometrics and Economic Theory Essays in honour of Jan	6
95.	George Simpson and Fritz Kafka	Basic Statistics	3
96.	Benjamin Perles and Charles Sullivan	Modern Business Statistics	3
97.	B.N. Gupta	Elementary Statistics	5
98.	S.P. Gupta	Elementary Statistics	5
99.	F.E. Croxton and Cowden and Klein.	Applied General Statistics	3
100.	David V. Huntsbergerpatrick Billingsley	Elementary of Statistical inference	6

**List of Journals for the Department of Commerce,
Kerala, India.**

Foreign

1. British Journal of Industrial Relations
2. Harvard Business Review
3. International Economic Review
4. International Labour Review
5. The Economist

India

6. Capitalist
7. Comment
8. Economic Economist
9. Economic and Political Weekly
10. Indian Economic Review
11. Indian Labour Journal
12. Manpower Journal
13. Monthly Commentary on Indian Economic Conditions
14. North-Eastern Economic Review
15. Productivity
16. Reserve Bank of India Bulletin
17. National Labour Institute Bulletin
18. The Chartered Accountant
19. Management in Business
20. Lok Udyog
21. Technical Sciences & Rural Development
22. Indian Journal of Industrial Relations
23. Industrial Times
24. Indian Journal of Labour Economics
25. Indian Commerce Journal
26. Indian Udyog Samachar
27. Employment News Weekly
28. Annual Survey of Industries
29. Indian Labour Year Book
30. Indian Statistical Year Book
31. India - Panorama
32. The Statesman Year Book
33. The Economic Times - Daily
34. The Financial Express - Daily
35. Indian Journal of Agricultural Economics

re^{ment}

Details of requi^{re}ment for the Department of Commerce

re^{ment}

Requirements for teaching for ~~Year 1/2/3/4~~ and non-teaching staff

Name of the post	Sanctioned strength	Additional require
a) Professor	1	Nil
b) Readers	2	Nil
c) Lecturers	7	3
d) L.D.A	Nil	1
e) Junior Stenographer	Nil	1
f) Gestetner operator	Nil	1
g) Peon	Nil	2

Note:- The requirements for the teaching staff has been calculated on the basis of the recommendations of the Committee appointed by the Academic Council in 1978 in its meeting held on 16th December, 1978.

2. Equipments and teaching aids & requirements for the Department

a) Type writing machine	One No.
b) Duplicating machine	One No.
c) Telephone installations	Two Nos.
d) Desk calculators	Ten Nos.
e) Film Projector 16mm	One No.
f) Tape recorder	One No.
g) Overhead projector	One No.

3. Library books and journals	Rs. 40,000.00
4. Educational films in the field of Commerce	Rs. 10,000.00
5. Study tours of the students	Rs. 15,000.00
6. Seminars/guest speakers/workshops	Rs. 10,000.00
7. Contingency	Rs. 5,000.00
8. Furniture for the class rooms, teachers rooms and office.	

Item No. 45

To consider the Minutes of the Board of Under-Graduate Studies in Geography -

The Board of Under-Graduate Studies in Geography in its meeting held on the 21st August, 1981 had recommended the introduction of a new syllabi with effect from 1981-82 academic session. The Minutes of the Board and the new syllabi recommended by it is placed as Annexure - 21.

A letter from the Principal, Union Christian College, Barapani, requesting the introduction of the new syllabi from 1982-83 session is placed as Annexure - 22.

The matter is placed before the Council for its consideration.

DEPARTMENT OF GEOGRAPHY
SCHOOL OF ENVIRONMENTAL SCIENCES
NORTH EASTERN HILLS UNIVERSITY
SHILLONG - 14

Minutes of the IVth Meeting of the Board of Under-Graduate
Studies

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IVth Meeting of the Board of Under-Graduate Studies, Geography was held in the Department of Geography, NEHU, Shillong on 21st August, 1981 at 1:00 P.M. to discuss the following agenda :

1. To confirm the minutes of the last meeting of Under-Graduate Board.
2. Approval of the Syllabus of B.A./B.Sc. Pass and Honours Courses prepared by the Sub-Committee.
3. Appointment of examiners and Paper setters for B.A./B.Sc. Pass and P.U.C.
4. Appointment of Moderation Committee.
5. Any other matter with the permission of the Chair

Following members were present :

1. Dr. R. Gopalakrishnan
2. Mr. C. Singh
3. Mr. G.P. Bhakta
4. Mr. N. Sangma
5. Mr. K.C. Chakravarty
6. Mr. Ali Ahmad (invited)
7. Dr. S.S.A. Jaifri (")
8. Mr. P.G. Momin (")

Dr. R.K. Rai was in the Chair

1. Minutes of the last meeting of the Board was presented and was approved unanimously.
2. Regarding the Syllabus B.A./B.Sc. (Pass and Honours) the revised syllabus prepared by the Sub-Committee was placed before the Board and was approved unanimously. It was resolved that

"the Board should request the University authorities to implement the revised B.A./B.Sc. (Pass & Honours) Syllabi from the session 1981-82".

..... 2/-

The following is the revised syllabi for B.A./B.Sc. Pass and Honours :

TWO YEAR DEGREE COURSE
GEOGRAPHY (PASS)

PAPER - I

Physics I and Human Geography - Marks 100

Candidates will be required to answer five questions, three from Group "A", and two from Group "B".

GROUP "A" PHYSICAL GEOGRAPHY Marks - 60

1. Geomorphology

Earth movements - Origin of oceans and continents (Tetrahedral and Continental drift Theories) Epeirogenic and Orogenic movements and their effects on the earth's crust - folding, faulting and the formation of mountains (Thermal contraction and Continental drift theories); Work of running water, glaciers, wind, underground water and the associated landforms; Origin and types of lakes, Drainage patterns, Normal cycle of erosion.

2. Climatology

Structure of the atmosphere; Classification Origin and Characteristics of air masses; Monsoon winds; Land and Sea breezes, and Local winds; Cyclones-temperate and tropical, Anticyclones, General classification of climate with special reference to Equatorial and Tundra types; World distribution of rainfall.

3. Oceanography

Configuration of Ocean floors, Salinity, Horizontal and Vertical distribution of temperature in the Oceans, Coral reefs and their origin.

GROUP "B" HUMAN GEOGRAPHY Marks - 40

1. Meaning and Scope of Human Geography.

2. Man and Environment : Determinism and Possibilism.

3. Classification, characteristics and distribution of Human races.

4. Influence of geographical environment on the mode of life of Bushman, Kirghiz and Eskimos.

5. Growth, distribution and Migration of population in the world.

6. Types and Patterns of rural settlements, Growth, and Structure of urban settlements Functional classification of towns.

PAPER - II

ECONOMIC AND REGIONAL GEOGRAPHY

Marks - 100

Candidates will be required to answer five questions, selecting at least two from each group.

GROUP "A" ECONOMIC GEOGRAPHY

1. Meaning, Scope and Importance of Economic Geography.
2. Agriculture - Factors affecting agriculture, agricultural systems; distribution, production and world trade in rice, wheat, jute, sugarbeet and rubber.
3. Minerals and Power resources - Iron-ore, aluminium, manganese, other minerals, petroleum and water power.
4. Industries - Factors of localization of industries; Iron and steel, cotton, wool, silk and synthetic fibre and ship building industries.
5. Transport linkages - Land and Sea.
6. International Trade - Bases of International Trade; Foreign trade of the U.S.A., The United Kingdom, The U.S.S.R., Japan and India.

GROUP "B" REGIONAL GEOGRAPHY

1. Asia - Physiography, Climate, Natural vegetation and Population distribution.
2. Basis for regional division of India; Detailed geographical account of the following regions: -
Rajasthan desert, Kashmir region, Brahmaputra valley, Himalaya Plateau, Purbonchol (North-Eastern Ranges) and Malabar coastal region.
3. Geography of Japan and Nepal under the following heads:
Physiography, Climate, Natural vegetation, Agriculture, Mineral resources, Industries and Population distribution.

PAPER III

PRACTICAL GEOGRAPHY

Marks - 100
Time - 6 hours
4 + 2 hrs.

Candidates will be required to answer five questions apart from Section G.H. and J. Other Sections will carry 50 marks in all.

SECTION "A" Scales

Enlargement and reduction of maps, combination of maps given on the different scales.

SECTION "B"

Representation of Relief and Elevation.

(1) Methods of representation

- (a) Pictorial method - hachures and hill shading
- (b) Mathematical methods - spot height, bench marks, trigonometrical stations, contours and formlines.
- (c) Combination of several methods such as contours and hachures, contours and layertints, etc.

(2) Representation of the following by contours and profile drawing :-

Cliff, Cirque, Watershed, Fjord coast, Ria coast, Out-bow lake, River meander, Limestone region, River terraces and Glaciated region.

SECTION "C"

Interpretation of Topographical Maps

The topographical maps have to be selected with respect to (i) a part of plain, (ii) a part of plateau and (iii) a part of a mountainous region.

SECTION "D"

Weather Maps and Meteorological Instruments

Interpretation of weather maps and weather forecasting, Handling of Fortin's barometer, aneroid barometer and hygrometer.

SECTION "E"

Representation of statistical data

1. Drawing of hytherograph and climograph,
2. Preparation of a non-quantitative area map using proper colours or shades.
3. An exercise on distribution map showing the population of North-East India by dots.
4. An exercise on distribution map showing the density of population in North-East India by shade method.
5. Super-imposition of proportionate circles on a map.

SECTION "F"

Map Projection: with Properties and uses

- (a) Zenithal, stereographic and Orthographic (Polar case)
- (b) Simple cylindrical and Cylindrical equal area.
- (c) Bonne's and Conical with two standard parallels.

SECTION "G"

Surveying-Chain & Tape, Prismatic Compass and Plane Table - 20 marks

SECTION "H"

Field Study - Collection of data, Preparation of maps and Field Report.

The report should contain only the geographical aspects studied in the area - Marks - 20

SECTION "I"

Statistical Methods

Sampling, Correlation and Regression.

SECTION "J"

Practical Note Book and Viva-voce

Marks - 10

..... 6/-

TWO YEAR DEGREE COURSE
GEOGRAPHY (HONS)
PAPER - I

PHYSICAL GEOGRAPHY

Marks - 100

A. GEO MORPHOLOGY

1. Theories on origin of the earth particularly paying stress on the views of Kant, Laplace, Jeans, Joffroy, Chamberlain, Schmitt.
2. Scientific evidence for the study of the interior of the earth.
3. Earth movements - Origin of oceans and continents (Tetrahedron and Continental drift theories; Views of Joly, Daly and Plate Tectonics theory).
4. Epeirogenic and Orogenic movements and their effects on the earth's crust - folding, faulting and the formation of mountains (Thermal contraction and Continental drift theories, Views of Kever, Holmes, Joly and Daly).
5. Work on running water, glaciers, wind, underground water and the associated landforms.
6. Origin and Types of lakes.
7. Normal cycle of Erosion; Arid cycle of Erosion.
8. Concept of peneplain and bajadas.
9. Theories explaining the evolution coastlines.

B. CLIMATOLOGY

Structure of the atmosphere, Classification, Origin and Characteristics of air masses, Monsoon winds, Land and Sea breezes and Local winds; Cyclones-temperate and tropical, anticyclones, General classification of climate with special reference to Equatorial and Tundra types; World distribution of rainfall.

C. OCEANOGRAPHY

Configuration of ocean floors, Salinity, Horizontal and Vertical distribution of temperature in the Oceans, Coral reefs and their origin.

PAPER - II

ECONOMIC AND HUMAN GEOGRAPHY

Mark - 10.

Candidates will be required to answer five questions, selecting at least two from each group.

GROUP "A" HUMAN GEOGRAPHY

1. Meaning and Scope of Human Geography
2. Man and Environment- Determinism and Possibilism
3. Classification, Characteristics and Distribution of human races; Races of India.
4. Influence of Geographical Environment on the mode of life of Bushmen, Kingdiz and Eskimo.
5. Growth, distribution and migration of population in the world.
6. Morphology, types and patterns of rural settlements, Growth and structure of urban settlements, Functional classification of towns, Size and spacing of population clusters, Hierarchies of settlements, The Central place.

GROUP "B" ECONOMIC GEOGRAPHY

1. Meaning, Scope and Importance of Economic Geography.
2. Agriculture - Factors affecting agriculture, agricultural systems, distribution, production and world trade of rice, wheat, jute, sugarbeet and rubber.
3. Minerals and Power resources -
Iron-ore, aluminium, manganese, atomic minerals, petroleum, and water power.
4. Industries - Factors of localization of industries; Iron and steel, Cotton, wool and synthetic fibre and ship building industries.
5. Transport linkages - Land and Sea.
6. International Trade - Bases of international trade; Foreign trade of U.S.A., the United Kingdom, the USSR, Japan and India.
7. Inland waterways of the world.
8. Fishing Industry in the world.
9. Industrial regions of USA, USSR and U.K.
10. Resource Regions of the world.

...

PAPER III
REGIONAL GEOGRAPHY

MARKS - 100

1. Asia - Physiography climate, Natural vegetation, Agriculture, Mineral resources and Population distribution.
2. Europe - Physiography, Climate, Natural Vegetation, Agriculture, Mineral resources & Population distribution.
3. Basis for regional division of India; Detailed geographical account of the following regions - Rajasthan desert; Kashmir region; Brahmaputra Valley; Meghalaya Plateau; Purbanchal (North-Eastern Ranges) and Malabar Coastal region.
4. Geography of Japan, Nepal, France and Norway under the following heads:-

Physiography, Climate, Natural Vegetation, Agriculture, Mineral resources, Industries and Population distribution.

PAPER - IV

(OPTIONAL)

Time - 100

The student has to select any two out of the following special branches -

1. Geomorphology
2. Climatology
3. Population Geography
4. Settlement Geography
5. Resource and Planning Geography
6. Agricultural Geography
7. Soil Geography
8. Oceanography
9. Historical Geography
10. Political Geography
11. Geographical Thought
12. Social Geography

GEOMORPHOLOGY

Definition and Scope of Geomorphology

Development of geomorphic ideas. Views of Davis, Penck, Gilbert, Lowell, Playfair, Hutton and others.

Understanding the various approaches to the study of geomorphology such as chronological or historical or rock history.

Superficial denudation - The fluvial processes of erosion, weathering and mass wasting.

Evolution of landforms and drainage in faulted folded and local structures. Study of drainage patterns, texture and ordering of the streams.

The geomorphic cycle, interruptions and movement of base level and its expression in landforms. The erosion surfaces and their interpretation. Rejuvenation and multicyclic landform development with special reference to Meghalaya plateau and Chotanagpur plateau.

Regional geomorphology and denudation chronology associated with Brahmaputra valley and hilly regions of N.E. India.

OCEANOGRAPHY

Nature and Scope

Form of sea and ocean beds. Origin of the oceans and seas. Floor of the oceans. Characteristics features of the ocean basins.

Properties of ocean water. (a) Temperature of oceans and seas. (b) Composition of river, lake and sea and ocean waters. (c) Salinity of oceans and seas and their causes. Water masses, shallow water and pelagic deposits.

Waves and tidal movements. Ocean circulation - its origin and effects.

Plant and animal life in oceans and seas. Economic exploitation of these resources.

CLIMATOLOGY

Nature and Scope

The atmosphere, its nature and behaviour, the physical process of atmosphere, radiation, insolation, heat budget and heat balance. Atmospheric pressure either horizontal or vertical distribution and general development of pressure cells Air movements circulation of permanent and non-permanent winds.

Process of evaporation, condensation and precipitation.

The distribution of precipitation on earth surface.

Air masses; origin and growth of air masses, classification of air masses, The study of air masses over Asia and India during summer and winter. Stability and instability conditions of air masses, modification of air masses, stable and unstable air masses and related weather.

Fronts: Frontogenesis and Frontolysis.

Classification of fronts and their distribution. Weather associated with fronts.

Cyclones and anticyclones : The characteristics of cyclones and anticyclones. Theories regarding the origin of cyclones. Classification of cyclones whether associated with cyclones.

The modification of the atmosphere by surface features. The evidence of climatic changes during glacial and interglacial and historical times. The theories of causations of such changes. Weather analysis and forecasting. Principles of weather forecasting techniques.

The application of general principles of elementary physical and synoptic meteorology to the study and classification of climates.

Thorntwait's, Koppen's and Miller classification of Climates.

POPULATION GEOGRAPHY

Definition and Scope of population geography

Historical development of population geography

Distribution of population - Significance of the study

and aggressive and distributive approaches. Factors affecting distribution and density of population. Distribution of rural and urban population in the world. Growth of population : Pre-historic and historic and recent trends in world population growth, regional pattern of recent growth of population in the world.

Population composition in terms of age and sex educational status and occupational structure. Significance of these elements in population analysis. Broad world patterns and spatial patterns in India.

Movements of population, causes and characteristics of migration.

Pre-historic migrations. International and internal migration in

India. Seasonal migration. Population regions of the world. Population regions of India.

SETTLEMENT GEOGRAPHY

1. Definition and scope of settlement Geography
2. Characteristics of Rural and Urban Settlements.
3. Types of Rural Settlements and their causes
4. Nature and Cultural factors of Rural Settlement
5. Origin and growth of urban settlements
World Urbanisation Patterns
6. Morphology of cities and towns
7. Problems of urbanisation in India
8. Spatial variations of House Types in India.

RESOURCE AND PLANNING GEOGRAPHY

GROUP "A" RESOURCE GEOGRAPHY

1. Development of the Concept and Scope of the subject
2. Nature and classification of resources.
a) Land b) Water c) Minerals d) Biotic resources and e) human resources.
3. World distribution, utilization and potentials of resources
4. Concept and problems of conservation of resources with special reference to soils, forests, minerals and water.
5. Role of technological change in resource utilization.

GROUP "B" PLANNING GEOGRAPHY

1. Geographical concept of planning the regions, regionalizations
2. Landuse planning
3. National Planning and regional resource patterns of India
4. Aspect of planning in regional structure as a basis to urban structure
5. Integrated area planning. Demarcation of planning regions in the Brahmaputra Valley.

HISTORICAL GEOGRAPHY

1. Relationship between Geography and History
2. Definition of Historical Geography and Differentiation among Historical Geography, Geography of History and History of Geography
3. Techniques and source material for reconstruction of Historical Geography.
 - a) Pre Historic (Stone Age)
 - b) Indus Valley Civilization
 - c) Ancient (based on Janapadas)
 - d) Medieval (Based on Ain-i-Akbari)
 - e) Modern (Based on Rennelt's Atlas)

AGRICULTURAL GEOGRAPHY

1. Nature and Significance of Agricultural Geography
2. Natural factors influencing agriculture. Slope, soils, Climate and drainage etc.
3. Physio-socio-economic factors and the agricultural activity
4. Major agricultural systems of the world.
5. Techniques of agriculture: farming-types and agricultural economy and development of irrigation.
6. Problems of Indian agriculture, Land use- Land classification and land capability surveys.
7. Agriculture in North-east region with special reference to jhuming.

SOIL GEOGRAPHY

1. Nature and Scope of soil geography
2. Composition of soils and their chemical characteristics
3. Geomorphic processes and formation of soils
4. Soil texture and forms
5. Water retaining capacity of soils
6. Processes of soil weathering and mass wasting
7. The development of soil profiles
8. The problem of soil erosion and conservation
9. Soils in India.

1. Pre-classical period.
2. Contributions made by Herodotus, Herodotus, Strabo, etc.
3. Arab Geographers, their contributions in different fields of Geography.
4. The development of Scientific Geography.
5. Contributions made by 18th and 19th century geographers.
6. Contributions of various schools of thought in Modern Geography.
 - German : Kant Ritter, Humboldt, Richthofen, Retzel, etc.
 - French - Vidal de La Blache, Brunhes, Demazouire, Hartshorn, etc.
 - And American, Lewis Sample, Davis, Peckinler, Hartshorn, Bowman, Hartshorn, Huntington, Stamp, etc.
 - Indian Geographers - Development of Geography in India Universities.
7. Nature of Geography : Study of the following view points.
 - (a) Area differentiation
 - (b) Landscape School
 - (c) Recent view points.

References:

1. Hartshorn, R., Nature of Geography
2. -do -do -do perspective on nature of Geography
3. Freeman, T. Hundreds Years of Geography
4. Dickenson, R.E., Makers of Modern Geography
5. Taylor, G., Geography of the 20th century
6. Jones & Jones, American Geography, Inventory and Prospects.
7. Ali, M, Arab Geography

POLITICAL GEOGRAPHY

Marks - 100

1. Scope and content of Political Geography
2. Development of Political Geography
3. Concept of Nation States
4. Evolution of States
5. Frontiers and Boundaries
6. Concept of Territorial Sea and economic Zones.
7. Political Geography of India, USA, USSR
8. Geo-political concepts of Mac Kinler and Spykew.

Selected References :-

1. De Bly, Hans, Systematic Political Geography.
2. Miur, R., Modern Political Geography
3. Faunds, HJG, Political Geography
4. Vaulkenberg, & Stetz - Political Geography
5. Heddie, A.E., Geography behind Politics.
6. Prescott, JRV - Political Geography
7. -A c - - Political Geography of the Oceans.

SOCIAL GEOGRAPHY

1. Branching of geography and emergence of Social Geography
2. Scope and content of Social Geography
3. Historical evolution of social personality of India.
4. Geographical explanation of the present distribution pattern of following in India.
 - a) Race
 - b) Religion
 - c) Caste
 - d) Language
 - e) Tribes in India

PRACTICAL

Candidates will be required to answer five questions apart from sections E & F, other sections will carry 60 marks.

Marks - 100
Time - 4 + 2 hrs.

SECTION 'A' - Scales

Enlargement and reduction of maps, combination of maps given on two different scales.

SECTION 'B' - Representation of Relief and Elevation

- (1) Methods of representation.
 - (a) Pictorial method - hachurs and hill shading
 - (b) Mathematical methods - Spots height bench mark, trigonometrical stations, contours and formlines.
 - (c) Combination of several methods such as contours and hachurs, contours and layer tint, etc.
- (2) Representation of the following contours and profile drawing:-
Cliff, Cirque, Waters hed, Fjord, Coast, Rin Coast, Ox-bow lake, River meander limestone region, River terraces and glaciated region.
- (3) Drawing of relief map to represent surface morphology
(i) Drawings texture (ii) Analysis of slope (iii) Analysis of shape -construction of one point perspective block diagram. Drawing of a section in perspective representation of detail on block diagrams.

SECTION 'C' - Interpretation of Topo-Sheets -

The Topo-sheets have to be selected to represent the following regions.

- (1) A part of plain
- (2) Coastal & Deltaic Area
- (3) Arid and Semi-Arid Areas.
- (4) Plateau Area
- (5) A part of a mountain region.

The students should be trained to calculate the area of a small drainage basin using a planimeter and should use a pantograph for enlarging and reducing a section of a topographical map. They will also be required to draw the relief profiles of a river.

SECTION 'D' -- Weather maps and Meteorological Instruments.

Interpretation of weather maps and weather forecasting,
Principle of Fortin's barometer, aneroid barometer and
hygrometer.

SECTION 'E' --- Surveying

- (1) Chain and tape, survey
- (2) Plane table surveying and interpolation of points
- (3) Prismatic compass survey -
Close and open Traverse, Determination of
included angle from bearing, errors and
adjustment in prismatic compass survey. 20 marks

SECTION 'F' -- Practical Note Book and Viva -- 10+10+20marks.

PAPER - VI
PRACTICAL GEOGRAPHY

Candidates will be required to answer four questions apart from
Sections A, C, F. Others will carry in all 20 marks.

Marks - 100
Time - 4+ 2 hrs.

SECTION 'A' - Map Projection

- (i) Principles of perspective and non-perspective projections
- (ii) The developable surfaces
- (iii) Construction of graticules of the following projections and study of their properties and uses.
 - (a) Zenithal stereographic & Orthographic (polar cases).
 - (b) Simple cylindrical and cylindrical equal-area.
 - (c) Bonne's and conical with two standard parallels.
 - (d) Zenithal equal area.
 - (e) Sinusoidal projection
 - (f) Polyconic projection
 - (g) Mercator's projection

SECTION 'B' - - Surveying

- (1) Use of Bumpy's level and profile drawing
- (2) Use of Bumpy's sin determining RL and in contouring of a ground.
- (3) Calculation of distance between two distant points by the use of a (a) Prismatic compass; and (b) Theodolite with the help of a baseline - 20 marks.

SECTION 'C' - - Field Study

- (a) Training the students in field geography
- (b) Instructions for the study of a typical area of geographical interest
- (c) Arrangement and selection of handy equipments for a field study camp
- (d) Exercise on setting of a map in the field
- (e) Preparation of a field report

(The report should contain only the geographical aspects studied in the area) 20 marks.

SECTION 'D' - - Statistical Method

- (i) Measurement of central tendencies & dispersion
- Mean, Median, etc.
- (ii) Frequency distribution and graphic presentation
(simple and cumulative)
- (iii) Correlation and regression
- (iv) Sampling.

SECTION 'E' - - Representation of Statistical Data

- (i) Drawing of hytherograph and climograph
- (ii) Preparation of a non-quantitative areal map.
Using proper colours or shades.
- (iii) An exercise on distribution map. Showing the
population of North-East India by dots.
- (iv) An exercise on distribution map. Showing the
density of population in N.E. India by shade method
- (v) Superimposition of proportionate circles on a map.
- (vi) Drawing of a population map. Using spheres and
multiple dots and an exercise on point symbol
distribution.
- (vii) Drawing of orograph
- (viii) Drawing of traffic flow and isochronic cartograms.
- (ix) Scatter diagrams showing two variables.

Section 'F' - Practical Note Book & Viva --- 20 marks.

TWO YEAR DEGREE B.A. PASS COURSE

Books recommended

PHYSICAL GEOGRAPHY

1. Monkhouse, J.F. : Principles of Physical Geography
(Press Ltd- London)
2. Luke, D. : Physical Geography (Indian Edn.1961)
3. Helms, A. : Principles of Physical Geography(1959)
4. Worcester, P.G. : A text book of Geographical
(Affiliated East-West Press(P)
New Delhi)
5. Thornbury, W.D. : Principle of Geography
6. Trewartha, G.T. : An introduction to Climate
(Mc.Graw Hill Book, Co. New York)
7. Christfield, H.J. : General Climatology
(Mc.Graw Hill Book, Co. New York)
8. Barry & Charley : Atmosphere, Weather & Climate
9. Knoff, A. : An introduction to Oceanography.
10. Osannoy, F.D. : The Ocean
11. Trewartha, G.T. : Physical elements of Geography(1957)

HUMAN GEOGRAPHY

1. Huntington, E. : Principles of Human Geography.
2. Lehon, J.H.G. : An introduction to Human Geography(1961)
3. Nancy, D.C. : Introduction to Human Geography
4. Brunhes, J. : Human Geography (New York)
5. Chisholm, M. : Human Geography : Evolution or
Revolution (1995)
6. Keleros, John.K. : Human Geography: Spatial design in
world society (1974)
7. Ronald Abler & : Human Geography in shrinking
others world (1975)
8. Brock, Ja.O.M. : Geography of Mankind

TWO YEAR DEGREE B.A. CLASS COURSE

Books recommended

ECONOMIC GEOGRAPHY

1. D. S. Rawl, H.C. & : Economic & Commercial Geography
Kumar, J.R. (National Publishing House Daryanand
Delhi - 110 006)
2. Dr. Dubey, R.H. : Economic Geography (Kital Mhhāl,
Allahabad)
3. D. Gupta, A. : Economic Geography
4. Gupta, J.L. & : Economic Geography, 1971
Chatterjee, I.R. (The world press (i), Ltd. Calcutta)
5. J. K. & Darkenwald : Principles of Economic Geography
6. Thomas, R.S. & : The Geography of Economic Activity
Giblin, A.F.
7. Raye, R.R. : The bases of Economic Geography
8. Kenneth Warren : Mineral resources.
9. Smith, G.H. : Conservation of natural resources.
10. Sinha, A.H. : Industrial Geography.

REGIONAL GEOGRAPHY

1. Sinha, G. : Geography of India (1970)
2. Dr. Dubey, R.H. : Economic Geography of India (1973)
3. Sinha, R.L. : India - A regional geography
4. Lavrishehev, A. : Economic Geography of USSR .
5. Trewartha, G.T. : Japan (Mc.Graw Hill Book Co New York)
7. Spate, O.H. & : India and Pakistan
Leventhal
7. Pisto, D.F. : The people of Nepal
8. Gupta, A. : Politics of Nepal.
9. Kason, P.P. : Nepal. A physical & cultural geography.
10. Keren & Jenkins : The Himalayan Kingdoms.

PRACTICAL GEOGRAPHY

1. Dr Sinha, R.L. & : Elements of practical geography
Datta, A.K.
2. Sinha, R & Sinha, RL : Map work and practical geography
3. Menckense, F.J. & : Maps and Diagrams
Wilkinson, H.R
4. Robinson, A.H. : Elements of Cartography
5. Raisze, E. : General Cartography (New York 1936)

TWO YEAR DEGREE COURSE (B.A.) GEOGRAPHY (HONS)

Books recommended

PHYSICAL GEOGRAPHY

1. Strahler, A.N. : Introduction to Physical Geography (International Edition, 1973)
2. Lambhouse, J.F. : Principle of Physical Geography (Press Ltd., London)
3. Long, P. : Physical Geography
4. Trewartha, G.T. : Physical elements of Geography (1957)
5. Holmes, A. : Principles of Physical Geography.
6. Thornbury, W.D. : Principles of Geography
7. Thomas, H.F. : Tropical Geography
8. Hills, E.S. : Aerial Lands (Methuen & Co. Ltd).
9. Litty, A.F. : Introduction to Geography
10. Davies, J.L. : Landforms of Cold Climate (The MIT Press Press, 1969)
11. Worcester, R.G. : A text book of Geography.
12. Trewartha, G.T. : An introduction to Climate
13. Chrischfield, H. J. : General Climatology (Mc Graw Hill Book Co. New York).
14. Barry & Charley : Atmosphere, Weather & Climate (London, 1968)
15. Crowe, T.R. : Concepts in Climatology
16. Rattersen, S. : Introduction to Meteorology
17. Gaskell, T.F. : Under the Deep Ocean
18. Knoff, A. : An introduction to Oceanography
19. Grass, G. : A view of the earth (Oceanography)
20. Mouldaurchine, W.A. : World Ocean & introduction to oceanography.
21. Onnenney, F.D. : The Ocean.
22. Murray, Dir J : : Depth of the ocean
J Hyert.

Economics and Human Geography

1. Huntington, E. : Principles of Human Geography
2. Lohm, J.H.G. : An introduction to Human Geography (1961)
3. Long, D.C. : Introduction to Human Geography
4. Chisholm, M. : Human Geography : Evolution or Revolution (1975)
5. Kilaras, John, K. : Human Geography : Spatial Order in world society (1974)
6. Lanchester, J. : Human Geography (New York)
7. Frank, Jan, O.H. : Geography of mankind
8. Kralj, A.G. Others : Human Geography in shrinking world (1975)
9. Gal, I.R. : Demography
10. Williams, W.S. : Population problems.
11. Anwar, S.N. : Some problems of India's population.
12. King, R.S. : A Geography of settlements (London, 1970)
13. Sinha, R.L. : Rural settlement in Unseen, India, IGC Varanasi, 1972)
14. Barrett, I. : Locational analysis in Human Geography London, 1968
15. Dr. Dubey, R.H. : Economic Geography of India
16. Lavrishchev, A. : Economic Geography of USSR
17. Perillous, A.V. : Human Geography, II Int. Ed.
18. Hussain, M. : Agricultural Geography, 1979
19. Chisholm, M. : Rural settlement and Landuse
20. Simmons, I.G. : Rural recreation in the industrial world (Wiley, 1975)
21. Barry, B. & L. : The Human consequences of urbanisation : Mac Millan 1973)
22. Steiles, A.E. : The Geography of terms (Hutchinson, 1953)
23. Odell, F.R. : An economic geography of oil (1963)
24. Warren, K. : World steel and economic geography (Newton Abbot David & Charles 1975)
25. Parker, F.C. & Savary C.I. : Economic history of transport in Britain (Hutchinson, 1974)
26. Harst, M.E.E. : Transportation Geography (New York McGraw Hill 1974)

27. Hanners, G. : The Geography of energy
28. Dickinson, R.E. : The Making of Geography
& Hwarth, O.J.R.

Regional Geography :-

1. Singh, G. : Geography of India (1970)
2. Dr Dubey, R.H. : Economic Geography of India.
3. Singh, R.L. : India - A regional geography
4. Hwartha, G.T. : Japan (Mc Graw Hill Book Co. New York)
5. Lister, D.B. : The People of Nepal, Politics of Nepal
6. Gupta, S. : Politics of Nepal
7. Spate OH & Learmonth : India and Pakistan
8. Karan, M. : Nepal : A physical & cultural geography
9. Karan and Tenkins : The Himalaya Kingdoms.
10. Dickenson, R.E. : The West European City, 1961.
11. Hirston, J.M. : Social geography of Europe.
12. Gossey, G.D. : Asia's lands and peoples.
13. Dwyer, D.T. : China now
14. Fisher C.. : South East Asia
15. Cuall, J.R. : The fisheries of Europe.
16. Kesinski, L. : The population of Europe: A Geographical perspective.
17. M tten, A.F.. : Central Europe, A regional and human geography.

Practical Geography :-

1. Dr Singh, R.L. & Datta, I.K. : Elements of practical geography
2. Singh, R. & Singh, R.L. : Map work and practical geography
3. Monkhouse, F.J. : Maps and diagrams.
4. Wilkinder, H.R.
4. Robinson, A.H. : Elements of Cartography
5. Raisze, E. : General Cartography (New York, 1938)
6. Davis, R.E. & F.S. : Surveying theory and practice.
Forte

TWO YEAR DEGREE COURSE (GEOGRAPHY HONS)
OPTIONAL

Books recommended

Advanced Geography

1. Strahler, A. H. : Introduction to Physical Geography (3rd Ed, Wiley International Ed. 1973)
2. Pitty, A.F. : Introduction to Geography (U.P. Methuen & Co. Ltd. 1971)
3. L. L. L. B. Wason : Fluvial processes in Geography (Asia Publ. House, New Delhi, 1969)
4. Strahler, A. H. : Structural Landforms, (The MIT Press, Mass, 1971)
5. Lewis, H. L. : Landforms of cold climate (The MIT Press, Mass, 1969)
6. Thornbury, D. : Introduction to Geography
7. Mellor & Harman : Principles of Geography (London)
8. Steers, J. A. : The Unstable earth (London)
9. Krishnan, M. S. : Geology of India & Burma. Hindus Bethans Ltd. Madras, 1968)
10. Wallis, D. H. : Geology of India (London)
11. Rai A.K. : Geography of sonar-bearna basin (concept publishing Co. New Delhi)

Climatology

1. Barry, R.G. & Chorley, R.T. : Atmosphere, Weather & Climate (London, 1968)
2. Christchurch, H. J. : General Climatology, NY, 1961.
3. Crane, P. R. : Concepts in Climatology
4. Lamb, H. H. : The changing climate (London 1975)
5. Miller, M. A. & Terry H. : Every meteorology London 1975
6. Patterson, S. : Introduction to Meteorology, NY
7. Strahler, A. H. : Earth Sciences, Tokyo, 1972
8. Taylor, J. A. : Agricultural Climatology (London)

TWO YEAR DEGREE COURSE

Books recommended

POPULATION GEOGRAPHY

1. Alexander, J.W. : The basic-non-basic concept of urban economic functions. Economic Geography (EG) Vol. 30.
2. Berry, B.J.L. : Geography of market centres and retail distribution. (Englewood Cliffs 1967)
3. Baker, G.R.H. : The Geography of human settlement, 1969.
4. Brunhes, J. : Human Geography (New York)
5. Carter, H. : Urban Geography (New York)
6. Chisholm, : Rural settlement and land use (London, 1969)
7. Davis, K. : The population of India & Pakistan
8. Thompson, W.S. : Population problems.
9. Clark, J.I. : Population geography
10. Cox, P.H. : Demography
11. Smith, I.L. : Fundamentals of population study.
12. Agarwal, S.N. : Some problems of India's population.

SETTLEMENT GEOGRAPHY

1. Carter, H. : Urban Geography, New York, 1969.
2. Haggett, P. : Locational analysis in human geography London, 1968
3. Smiles, A.E. : Urban Geography (London 1965)
4. Baker, G.R.H. : The Geography of rural settlement, 1969.
5. Chaudhury, A.K. : Early medieval villages in North East India (Calcutta 1971)
6. Hulsen, R.S. : A Geography of settlements (London 1970)
7. Sharma, R.C. : Settlement geography of Indian desert 1972.
8. Voke, Peter J : Man settlement and urbanism 1972
9. Singh, R.L. : Rural settlement in non-son lands, IGC, Varanasi, 1972

TWO YEAR DEGREE COURSE

Books Recommended

RESOURCES AND PLANNING GEOGRAPHY

1. ... : Geography and Planning
2. ... : Regional Planning and Development.
3. ... : Principles and Practice of Regional Planning
4. ... : Regional Planning in India
5. ... : Economic Classification of India Census Pub. 1961.
6. ... : Growth Economics, Penguin PB, 1973
7. Myrdal, G. : Economic Theory & Under-developed Regions, 1957.
8. Robinson, E.A.G & Kidron, M. : Economic Dev. in South Asia, London, 1970
9. Renner, G.T. : Conservation of Natural resources.
10. Zimmerman, E.W. : World Resources and Industries
11. Wales, H. and H.O. Lathorp : The conservation of Natural Resources
12. Ramarao, M.S.V. : Soil conservation in India.

AGRICULTURAL GEOGRAPHY

1. Aiyer, A.K.Y.N. : Field Crops of India, Bangalore
2. Cohen, Ruth L. : The Economic of Agriculture
3. Husain, M. : Agricultural Geography, 1979
4. Morgan & Munton : Agricultural Geography, The Chancer Press Great Britain.
5. Sen, B. : Green Revolution in India 1974
6. Singh, J. : Agricultural Atlas of India, New Delhi
7. Stamp, L.D. : Applied Geography
8. Taylore, J.A. : Weather & Agriculture 1969 London
9. Wittlessey, D. : Major Agricultural Regions of the World, 1936

Soil Geography

To be given later.

TWO YEAR DEGREE COURSE

Books Recommended

OCEANOGRAPHY

1. Gaskell, T.F. : Under the Deep Ocean
2. Knapp, A. : An introduction to Oceanography
3. Murray, Sir J & I. Hjort : Depth of the Oceans
4. Whitney, F.D. : The Ocean
5. Sverdrup, H.U and others : The Oceans, their Physics, Chemistry and General Biology
6. Gross, G., : A view of the Earth, Prentice Hall, Oceanography Englewood Cliffs, New York, 1972
7. Strahlar, A.N. : Principles of Earth Science
8. Anikourchine, W.A. : World Ocean; and Introduction to and Sternberg R.W. Oceanography.
9. Kolabkav, N. : Our Atmospheric Ocean

HISTORICAL GEOGRAPHY

1. Ahmad, A. : Regional structure of India in Medieval Period.
2. Ali, S.M. : Geography of Puranas
3. Bernier, F. : Travels in the Mughal Empire
4. Cirrar, D.C. : Studies in Geography of Ancient India
5. Cunningham : Ancient Geography of India
6. Abdul Fazl : Akbarnama (3 vols.)
7. Abdul Fazl : Ain-i-Akbari (3 vols.)
8. Rennell, J. : Memoir of a Map Hindustan or the Mughal Empire
9. Wheeler, M. : Early India & Pakistan
10. Spate, O.H.K. : India, Pakistan & Ceylon
11. Piggot : Pre-Historic India

TWO YEAR DEGREE COURSE

Books Recommended

POLITICAL GEOGRAPHY

- | | |
|--------------------------------|---|
| 1. Anderson L.M. | : World Political Patterns |
| 2. Nelson | : Geography & World Politics |
| 3. Met, Y.M. | : Political Geography & the World Map |
| 4., L.E. | : The Changing World |
| 5., C.E. &, R.H. | : World Political Geography |
| 6. H.W. | : Principles of Political Geography |
| 7. Sukhwai, B. | : Political Geography of India, (New York 1973) |
| 8. Rose & Fisher | : The politics of Nepal |
| 9. Misra, K.P. | : International Politics in the Indian Ocean |
| 10. Bly, Harm | : Systematic Political Geography |
| 11., NJG | : Political Geography |
| 12. Moodie, A.E. | : Geography behind Politics. |
| 13. Muir, R. | : Modern Political Geography |

GEOGRAPHICAL THOUGHT

- | | |
|--------------------------|---|
| 1. Ali, S.M. | : Arab Geography |
| 2. Ali, S.M. | : Geography of the Puranas |
| 3. Davics, W.K.D. | : The conceptual Revolution in Geography |
| 4. Dickinson and Howarth | : The Making of Geography |
| 5. Wooldridge & East | : The spirit & Purpose of Geography |
| 6. Freeman, T.W. | : A Hundred Years of Geography |
| 7. Hartshorne, R. | : Perspective on the Nature of Geography 1950 |
| 8. I.C.S.S.R. | : A Survey of Research in Geography, 1972 |
| 9. Dickinson | : Makers of Modern Geography |
| 10. Taylor, G | : Geography in the Twentieth Century |
| 11. James & Jones | : American Geography: Inventory and Prospects, Syracuse Univ Press 1954 |
| 12. Hartshorne, R. | : |

Social Geography

1. Puri, S., : Pre-historic India
2. Wheeler, H., : Early India & Pakistan.
3. Guha, H., : The Personality of India.
4. Pannikar, K.M., : Geographical Factors in India History.
5. Gordon, D.H., : The pre-tustonic Background.
6. Bashan, A.L., : The Wonder that was India
7. Spate, O.H.K., : India & Pakistan
8. Nehru, J., : The Discovery of India
9. Singh, Y., : Social change in India
10. NCERT Publication: General Geography.

Practical Geography

Please see page 27

any other matter with the permission of the chair,
was resolved that

"It has been brought to the notice of the B.U.S.
that appropriate Syllabus has not been distributed
to some of the Colleges in previous years.
It was resolved that the University authorities
should send the latest syllabus to Colleges,
representatives and to Moderation Board."

and also that

the Board authorises the chairman to contact the
Principals of different affiliated Colleges of
the University to start Geography Department and
upgrade the existing Departments.

the meeting came to an end at 4.30 Pm.

1. Dr. R. Gopalakrishnan
2. Mr. C. Singh
3. Mr. G.P. Bhakta
4. Mr. K.C. Chakravarty
5. Mr. N. Sangma
6. Mr. Ali Ahmad (invitee)
7. Mr. R.G. Momin (invitee)
8. Dr. S.S.A. Jafri (invitee)

R. K. Rai
(Br. R. K. Rai)

Chairman

Board of Undergraduate Studies, Geography.
Department of Geography,
N.E.H.U., Shillong-14.

UNION CHRISTIAN COLLEGE
BARAPANI

Mr J.W. Smith
Officer in charge,
(Academic),
NEHU, Shillong

Date 26.10.81

Sir,

With reference to your letter No.G.21-5/BUGS/80-VOL II-391 dated 19th September, 1981 regarding Geography Syllabi. I would like to raise a point with you. The letter reached me on 24.9.81., when we had already started work on the OLD Syllabi. I feel it would have been more reasonable on the part of the BUGS, to have introduced the new Course for 1982 and not in 1981.

If the Syllabi is adopted as suggestion - it is bound to create confusion in the College and in the minds of the students.

Please give some thought over the matter.

Yours faithfully,

Sd/-

(S.K. Austin John)
Principal

CC:

1. Head of Department, Geography, NEHU
2. Pro Vice-Chancellor, NEHU
3. Registrar, Academic.

...

Item No. 46

Registration of candidates of the Department of Zoology which have been notified in the light of the decision of the School Board of the Life Sciences for registration for Ph.D. course -

Placed as Annexure - 23 is the letter received from the Dean, School of Life Sciences for consideration of the Council.

The names of candidates recommended by the Dean, School of Life Sciences for registration as Ph.D. candidates is placed as Annexure -24.

No.F.30/Bot/AC/81-82/5

October 12, 1981

The Vice-Chancellor
North Eastern Hill University
Shillong.

Sir,

I am enclosing herewith **Synopses** for M.D. registration of the following candidates of the department of Zoology which have been modified in light of the decision of the School Board of the Life Sciences. The candidates may be registered for Ph.D. degree in Zoology on the topics mentioned against their names from the date of their joining of the research in the department. This may please be placed in next Academic Council meeting.

Thanking you,

Yours faithfully,

Sd/-

(R.R.Mishra)

Dean

School of Life Sciences

Encl: 5 Synopses mentioned above.

<u>Name of the candidates</u>	<u>Topic</u>	<u>Supervisor</u>	<u>Date of joining</u>
1. A.K. Roy	Survey of Insects & Biology & Control of certain insect pests in Jaldhakran (proposed) wild life sanctuary, Garo Hills, Meghalaya.	Prof. H.K. Khare	13.7.79
2. Mrs. I. Chaurasia	Studies on Embryonic development of <u>Philosmia ricini</u> Mitt (Lepidoptera) Saturniidae.	-do-	1.9.79
3. H.C. Sharatchandra	Ecological separation among the larger Ungulates of Kaziranga National Park, Assam.	Prof. R.G. Michael	30.6.80
4. V.T. Barlong	Autoecological study of soil arthropods in three different ecosystem regimes of Meghalaya (N.E. India)	Dr J.R.B. Alfred	3.12.79
5. Sudipta Choudhury	Studies on the colours of the integument of some insects: Their nature & influence of environmental & hormonal factors of them.	Dr R. Raghuvanshan	24.1.80

Item No. - 47

Sub:- Affiliation of Hnahthiel College and Lawmtlai College upto P.U. level and extension of affiliation for Saiha college upto Degree level.

The Governing Bodies of Hnahthiel College and Lawmtlai College have applied for affiliation of their respective colleges with effect from 1981-82 session. Mr. K. Bez of Economics Deptt. and Dr. Milton Sangma of History Deptt. NEHU both inspected the two colleges and have submitted the Inspection reports wherein they have recommended that the two colleges be granted affiliation upto P.U. level.

The two members also inspected Saiha College which has applied for permission to start Degree Classes from 1981-82 session. They have submitted the Inspection Report and have recommended that Saiha College be allowed to start Degree classes as prayed for.

It may be noted that all the three colleges have obtained the permission of the Government of Mizoram.

The Inspection reports of the above three colleges are enclosed at Annexure 25, 26 and 27 respectively.

The matter is placed before the Academic Council for its consideration.

INSPECTION REPORT OFHNAHTHIAL COLLEGE (AFFILIATION OF P.U.C.)

We inspected the Hnahthial College on the 1st December, 1981. The College was established in 1979 with the 1st Year P.U.C. The College situated at the central part of Mizoram. The nearest college to Hnahthial is in Lunglai which is about 70 kms. away. Hnahthial is a young town with about 26,000 population in and around Hnahthial. The distance is one of the main obstacles to the students of Hnahthial for obtaining education elsewhere. The people of Hnahthial and of the adjoining areas truly feel that they need a College at Hnahthial. We also share the feelings of the public and are pleased with their relentless effort in building up this College.

The following informations have been supplied to us pertaining the College by the Principal, Staff and the College Students :

- (a) Enrollment :- The Attendance Register was inspected and was found that there are 44 students (29 boys and 15 girls) in the P.U. 1st Year Class. The number of students in the P.U. second year Class is 63 of which 48 are boys and 15 are girls. About one-third of the students are in gainful employment in the day time.
- (b) Accommodation :- Due to non-availability of College building of its own, the Classes are held in the evening at the building of the Government Middle English School. We also inspected the building and found that the class rooms and the Office of the Principal, the College Office, the Library and the Staff Common rooms are all spacious and well-furnished.
- (c) Time-Table :- At present, the subjects taught in the College are - English, Pol. Science, Economics, Education, History and Mizo language. Altogether 60 lectures are given in a week in all the subjects.
- (d) Staff position :- The strength of the teaching staff is six, one of whom teaches in the local school in the day time. The Lecturers are all qualified and meet the minimum requirements of the University except one lecturer in Education who is still waiting for the NEHU result in Education. There is also one Office Assistant.
- (e) Staff payment :- The Staff are paid regularly from the College fund. However, they are not given the usual allowances but a fixed salary.
- (f) The Library :- The College library has a collection of about 300 books with suitable text books for the P.U.C. students. Therefore, it is quite satisfactory. The college subscribes for one national Daily Newspaper and one local newspaper. There is no dearth of space since the entire building is at the disposal of the college in the evening.
- (g) Financial position :- The college fund is the symbol of the spirit for higher education in Hnahthial. There is hardly a family which has not contributed to the college from their earnings. The College has an amount of Rs.40,730/- (Forty thousand seven hundred and thirty only) deposited at the local S.B.I. The main source of income is the donation from the public. Since the college is not affiliated it does not receive grants from the government.

(h) College Land :- The proposed site of the college is just off the main road and centrally located. The village Council has given 0 acres of land to the college as early as 26th August, 1980. It has also scope for future expansion.

(i) Feeder High Schools :- The number of feeder high schools in and around Hnahthial is eight with a student population of about 1300. Some of these high schools are situated at a distance of about 40 kms. from Hnahthial, yet these schools are nearer to the Hnahthial College than to colleges in Lunglei and Lunglei. One hundred and five students appeared HSLC examination in 1981 and about 80% of them passed. In 1982 the number of candidates is expected to be 150. Therefore, the area is expected to supply about 120 potential college students.

(j) Conclusion remarks :-

We feel that the Hnahthial college fulfils the needs for higher education. The other colleges being located very far away can not cater the needs and aspiration for higher learning of the people in and around Hnahthial. In a rural setting where most of the students have to help in farming for their survival, the parents are not in a sound financial position to send their sons and daughters far away from home to acquire college education. The college already to its credit has a good record in P.U. Examination. The people of Hnahthial have made us to realize that Hnahthial college is their hope and road to progress and prosperity. The college has already obtained permission to open from the Ministry of Education, Government of Mizoram on the 10th August, 1981 and the Minister of Education, Mizoram laid the foundation stone of the college on 21st October, 1981. The affiliations to this college means recognition of the thirst for learning of the people of Hnahthial in particular and the people of Mizoram in general.

We, therefore, strongly recommend for affiliation of Hnahthial College to NEHU upto P.U.C. level.

LAUNGTLAI COLLEGE (AFFILIATION OF P.U.C.)

We inspected the Lawngtlai College on the 3rd December, 1981. The College was established in 1981, at Lawngtlai, the Seat of Pawi District Council.

In the west bank of Kaladhan river, Lawngtlai is a fast growing town and the headquarters of the Pawi District Council. Lawngtlai and the entire region on the western bank of the Kaladhan river are cut off from Saisa during the rainy season. Moreover, the ethnic distinction between the Lakners and the Pawis is another factor in promoting a college at the western bank. The distance between Saisa and Lawngtlai is 70 km. and the road cuts across the Kaladhan river. The communication and transportation problem is enormous as there is no regular bus services. Lawngtlai is also a fast growing town with about 6000 population. The distance alone can justify the need of a college in Lawngtlai.

The following informations pertaining to the college has been supplied to us :-

(a) Enrolment :- During the current year 1981-82, the students enrolment is as follows :-

I P.U.	- 30 boys and 20 girls	= 50
II P.J.	- 30 boys and 4 girls	= 34

It was reported by the Principal of the college that about 80% of the students are employed at local offices. Classes are held in the evening.

(b) Accommodation :- The Pawi District Council has given one of its buildings for the running of the college as long as they has no building of their own. On inspection, we found that the building has adequate space for class rooms and for the Office of the Principal and the Library with furniture. The District Council building is located at the centre of the town.

(c) Time-Table :- The number of class - contact hours per subject is on the average 10 hrs. in a week. The subjects offered are - English, Mizo, Economics, History, and Pol. Science.

(d) Staff position :- The strength of the staff is 5. Except one member of the staff, all others are full-timers. Every member of the staff holds 2nd Class M.A. Degree. Besides, the District Council generously lent one Clerk and one peon to the College.

(e) Library :- The number of books in the library is 500. They are mostly text books of P.U. and Degree standards. The Library books come as gifts from individuals. The College has access to the newspapers and journals meant for and subscribed by the Pawi District Council.

(f) Staff Payment :- The members of the staff are paid fixed salary. The salary of the Principal is Rs.1000/- pm. and that of the lecturers Rs.800/-pm. The Office assistant and the peon are not paid by the college, since their services are provided by the District Council, to the College.

(g) Financial position :- The chief sources of income of the college are donations from the public and contributions from the local employees. The college also raises tuition fee of Rs.30/- per month from each student.

The College has a Bank balance of Rs. 16,696/- deposited at the local S.B.I. An amount of Rs.45,000/- is also deposited in the Saiha Treasury in the Head of A/c 843 Civil Deposit-Refundable.

(h) College Land :- The College has acquired from the Pawi District Council, a plot of land measuring about 4 hectares in the centralmost part of the town. Another plot of land is also said to have been donated to the College by the District Council. However, no building has come up so far.

(i) Feeder High Schools :- There are 12 feeder high schools in and around Lawngtlai. Number of student population is not known although the number seems to be on the increase every year. Number of successful candidates in the HSLC Examination in the preceding year could not be known for certain.

(j) Concluding Remarks :-

The college came into existence after a long struggle of the public. The Pawi District Council is very active in promoting the college to satisfy the needs for higher learning of the Pawis in particular. Since Saiha College is very far (70 km) and the communication is very difficult and there is practically no link with Saiha during the summer, the necessity of a college is apparent in Lawngtlai.

Therefore, we recommend that Lawngtlai college be affiliated upto P.U.C. level.

INSPECTION REPORT OFSAINHA COLLEGE (AFFILIATION OF B.A.)

I inspected the Sainha College on the 2nd December, 1981. The College was established in 1978 and the affiliation was accorded upto P.U.C. level in 1979 by the University. The affiliation is now sought for B.A. degree course.

Geographically, Sainha is the southernmost town in Mizoram. It is situated in the headquarters of the Chhiantuipui district. The town has about 8000 population and the Chhiantuipui district has more than 60,000 population. The district was formed by three district groups of tribal people. They are Lakhers, Poms and Chakmas.

The nearest college is at Lunglei at a distance of about 185 kms. from Sainha. Sainha is cut off from the mainland by the turbulent Kalamoi river. It is therefore urgently felt that the Sainha College be upgraded to B.A. level to cater the need for higher education of the Chhiantuipui district.

The following relevant informations have been submitted by the Chairman and the Secretary of the Sainha College.

(a) Enrolment :- The number of students at Sainha College is 167 Class-wise enrolment is as follows :-

<u>Class</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
I PUC	48	13	61
II PUC	44	34	78
I B.A.	11	2	13
II B.A.	14	1	15

The following are the number of students in each subject of B.A. course :-

<u>Class</u>	<u>English</u>	<u>MLL</u> (Mizo)	<u>Alt. Eng.</u>	<u>Hist.</u>	<u>Eco.</u>	<u>Pol.Sc.</u>	<u>Edu.</u>
I B.A.	13	13	-	6	9	9	4
II B.A.	15	14	1	7	11	14	3

(b) Accommodation :- The College has its own building and occupied it on March, 1981. The building was constructed at a cost of Rs.173,000/- with the financial sanction from the Mizoram Govt. It has four class rooms, one Staff common room, one Office and one Library room and Principal's Office room. All the rooms are large enough and are well-furnished.

(c) Time-Table :- The total number of class contact hours for the P.U. and B.A. course during the current session is as follows :-

<u>Eng.</u>	<u>Mizo</u>	<u>Alt.Eng.</u>	<u>Eco.</u>	<u>Pol.Sc.</u>	<u>Edu.</u>	<u>Hist.</u>
150	100	70	140	140	140	140

(d) Staff position :- At present, the strength of the teaching staff is 9, all of whom are full-time lecturers. The college expects to appoint 3 more lecturers - one in Education and two in Economics. Two of the lecturers are 1st class MA, and the rest are 2nd class MA. There are 4 administrative staff and two lower grade staff.

(e) Library :- The total number of books in the Library is 2000, of which 800 are of degree standard. The list of books per subject is as follows :-

Eng. = 220 ; Edu. = 200 ; Mizo=250 ; Hist.=250 ; Pol.Sc.=250 ; Eco.=210 ; Diverse=620.

The college provides one room for Library with an attached reading room. The college also subscribes for 14 magazines and 10 newspaper both local and national.

(f) Staff payment :- Because of maintenance grant received by the college from the state Govt. the College is in a position to make regular payment to the staff. The payment includes basic pay and self insurance.

(g) Financial position :- The college has a reserve fund of Rs.50,000/- deposited at Saiha District Treasury. Besides, the Saiha College has the following funds :-

1. Working Fund	- Rs.18,000/-
2. Student Fund	- Rs.835/-
3. Scholarship Fund	- Rs.33,095/-

The College has received financial assistance to the tune of Rs.205,275/- from the State Government for building, furniture, library etc.

(h) College Land :- The College has acquired 4 hectares of land. The land is donated by Lakher District Council. We were assured that more lands can be obtained if needed.

(i) Feeder High Schools :- There are 15 feeder High Schools in the area, of which three are Government High Schools. Since there is no other degree level college in the district, the prospect for increment of college students at Saiha is very promising.

(j) Concluding remarks :-

In view of the favourable conditions of the college and in view of its future prospects, we, the members of the Inspection team are very much in favour of affiliation of the Saiha College upto B.A. level.

Therefore, we, most favourably recommend for affiliation of the Saiha College upto B.A. Degree Course.

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