

NORTH-EASTERN HILL UNIVERSITY
Shillong- 793 001

Conf/AC/9/A/80- 4037-85
September 1, 1980.

All Members of the
Academic Council
NEHU

Agenda of Ninth Meeting of the Academic
Council.

- - -


Sir/Madam:

En-closed please find a copy of the agenda papers
for the 9th meeting of the Academic Council to be held on
the 12th September, 1980, for your kind perusal.
Additional items, if any, will be forwarded to you in
due course.

Kindly acknowledge receipt of this communication.

Yours faithfully,

Encl: a.a.



(M. R. Mawlong)
Registrar

- - -

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

AGENDA FOR THE MEETING OF THE
ACADEMIC COUNCIL

Friday, the 12th September, 1980
Shillong

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Item No. 1

Confirmation of the Minutes of the
Eighth Meeting of the Academic Council
held on 15th March, 1980 :

The Minutes of the Eighth Meeting of the Academic Council held on 15th March, 1980, already circulated amongst the members with a request to give a comment, if any, on the Minutes. Since no comments were received, the Minutes may be taken as confirmed.

ITEM NO.2

To consider the Minutes of the School Board
(Life Sciences) meeting held on 21st June,
1980 :

The Minutes of the School Board meeting held on 21st
June 1980 are placed as Annexure - I for consideration
of the Council.

Annexure - I

SCHOOL BOARD MEETING ON SATURDAY 21ST JUNE, 1980
at 3.00 P.M.

- Item 1. Ph.D. Synopsis of all 17 candidates in Botany and 21 candidates in Zoology, approved by the Committee for Advanced Studies and Research were ratified. (App. I)
- Item 2. Approved with a light change in the Zoology papers Z 6 Semester 3 "Fish Biology where practicals would carry 50 marks instead of 40. The total marks for practicals of that semester subsequently would become 380. Semester IV practicals papers would have a grand total of 190 instead of 200. (App. II)
- Item 3. Approved the Pre-Ph.D. Course subject to making the following courses more specific. If necessary the course be split so that each of which could stand on its own. (App. III)
- Altitudinal Physiology, (ii) Development physiology of Arthropods (iii) Invertebrate consumers and decomposition of forest ecosystem.
- b) Further, the third course listed above may be slightly changed into "Forest Soil Ecosystem" keeping the contents of the course.
- c) Additional course may be designed, if necessary which may subsequently be approved by the School Board.
- d) Resolved that the course will normally have a duration of 6 months. However, a candidate may clear the course within a period of one year. However, he may not take any examination before completion of 6 months period of stay in the Department. The Course would be considered cleared if the candidate obtains 55% marks or more. The Pre-Ph.D. course will commence from the day the candidate joins research.

Contd/..

Item 4. (a) The Board considered names for various Committees which are being processed by the Office.

(b) The Board also considered the application for condonation of the Ph.D. submission time by 6 months in the case of Shri Jasbir Singh and strongly recommends that this extension may be granted in view of the valid reasons given by him.

The Board also considered the extension of the time period for Ph.D. Thesis submission beyond 4 years in the case of the following candidates and recommends that they may be allowed this extension:

Shri S. Ravindran
Shri G.D. Sharma
Shri Monojit Deb
Shri O.P. Toky
Shri Bidhan Bhattacharya
Mr. Parimal Das

The following members were present at the School Board meeting :-

1. Prof. P.S. Ramakrishnan, Dean, School of Life Sciences, NEHU.
2. Prof. R. George Michael, Deptt. of Zoology, NEHU.
3. Prof. R.R. Mishra, Deptt. of Botany, NEHU.
4. Dr M.K. Khare, Head, Deptt. of Zoology, NEHU.
5. Dr L.N. Tluanga, Deptt. of Zoology, NEHU.
6. Dr Y.S. Chauhan, Deptt. of Botany, NEHU.

LIST OF STUDENTS TO BE REGISTERED FOR PH.D.

1. P.Pyrshang Swell Kharbuli	Eco-Physiologgical studies on Mycorrhizae of Two Common Timber Yielding Plants, <u>Schima wallichii</u> (DC) Korth and <u>Mesua Perrea L.</u> of North Eastern Region of India.	Prof.R.R.Mishra
2. Ravindra Prasad Shukla	Studies on the Adaptive strategy of a few selected tree species of the North-Eastern India.	Prof. P.S. Ramakrishnan
3. K.G.Saxena	Studies on the Eco-Physiology of early successional Plant Populations of Jhum Fallows.	-do-
4. Miss Aidrolin Khonglam	The Cytogenetical studies on some weeds of Meghalaya.	Dr Avtar Singh
5. Ram Boojh	Observations on Ecological adaptation of a forest ecosystem with emphasis on some tree species.	Dr P.S.Rama- krishnan
6. Nagendra Kujar Verma	Studies on the Ecology of Vesicular Arbuscular Mycorrhiza of <u>Eupatorium riparium E.</u> <u>Adenophorum</u> and <u>Osbeckia crinata</u> . The common weeds of N.E.Region of India.	Dr R.R.Mishra
7. K.M.Kuruvilla	Cytogenetical studies on some cereal and tuber crops of North Eastern Hills.	Dr Avtar Singh
8. Sudhir Trivedi	Reproductive strategies of some common weed species.	Dr R.S.Tripathi
9. Prabhat Pradhan	Ecological studies on interference involving <u>Trifolium repens L.</u> and <u>Paspalum dilatatum Poir.</u>	- do -
10. Bidyut Kumar Mishra	Studies on Jhum (Slash and Burn cultivation) at Higher Elevations of Meghalaya.	Prof. P.S.Rama- krishnan
11. S.P.Singh Kushwaha.	Studies on different Jhum patterns (slash & burn agriculture) & population dynamics of a few selected species.	Dr R.S.Tripathi
12. Arvind Kumar Saxena	Studies on Ecological equipment and Adaptation of some timber trees of the North-East.	Prof. P.S.Rama- krishnan
13. Hiranya Kumar Deka.	Studies on dynamics of soil microbial population in Jhum fallows.	Dr R.R.Mishra

Contd/-...

- | | | |
|-------------------------|---|---------------------|
| 14. Atar Singh Yadav | S-tudies on Population dynamics of <u>Eupatorium odoratum</u> , <u>E. adenophorum</u> and <u>E riparium</u> | Dr R.S.Tripathi |
| 15. K.Haridasan | Forest flora of Meghalaya | Dr R.R.Rao |
| 16. Spenliwell Myrthong | Study on the Monocot flora of | - do - |
| 17. B.P.Dey | Studies on weed Biology of <u>Echinocloa crusgalli</u> and its competitive relationships with rice. | Dr P.S.Ramakrishnan |

LIST OF STUDENTS TO BE REGISTERED FOR PH.D.
IN ZOOLOGY

<u>Name of Candidate</u>	<u>Title</u>	<u>Supervisor</u>
1. Shri Samarendra Nath Datta	Cytotaxonomical studies on the Spider Fauna of North Eastern Region of India.	Dr K. Chatterjee
2. Mrs. Manashi Dasgupta	Ecology of the Family Chironomidae (Diptera) with particular reference to the North-Eastern Regions of India.	Dr J.R.B. Alfred
3. Miss Sukhbeer Kaur	Studies on some aspects of the Ecology and Biology of <u>Channa Gachua</u> Hamilton and <u>Channa Stewartii</u> Playfair.	Dr S.A.K. Nasar
4. Shyamaprasad Biswas	Studies on some aspects of the Biology of certain species of <u>Labeo</u> from the North-Eastern India	- do -
5. Shri Sisir Kumar Shahoo	An investigation on some aspects of the Ecology & Biology of a Hill-stream fish - <u>Garra</u> Hamilton	- do -
6. P.K. Prabhakaran.	Structural and Evolutionary aspects of the hemoglobin of air breathing fishes: <u>Heteropneustus fossilis</u> & <u>Clarius batrachus</u> .	Dr R. Lalthan-tluanga
7. Mamani Sharma	Studies on some aspects of the behavioural Ecology of the Cat Fish, <u>Heteropneustes Fossilis</u> (Bloch)	Dr S.A.K. Nasar
8. Pramod Kumar Vatsauliya	The ecological study of Jhum with particular reference to soil - arthropods of North-Eastern Hill region of India.	Dr J.R.B. Alfred

Contd/...

9. Ajit Kumar Bhagowati Studies on some Biochemical and Physiological adaptations in Carps (Cyprinus Carpio and Labeo Rohita) to High altitude during development and growth. Dr B.K.Ratha
10. Amal Bhattacharya Chemotaxonomical interrelationships in some hill stream fishes of the North-Eastern regions of India. Dr.J.R.B.Alfred
11. Nabendy Jyoti Dhar Cytogenetical investigations of some selected fresh water air-breathing fishes of the North Eastern region of India. Dr K.Chatterjee
12. N.Simon Dzuovichu Study of cultivable fishes in Nagaland with particular reference to mortality of fish seed and growth rate of fingerlings. Dr J.R.B.Alfred
13. Besterwell Kharbuli Ecophysiological studies on Growth and Factors Governing the species specificity of some insects pests in relation to their host plants. Dr A.R.Varman
14. H. Lalramhluna Studies on factors in relation to Biology, Growth & Reproduction in the Dragonfly (Aeschna sp.) - do -
15. Nani Gopal Goswami Studies on factors in relation to Biology, Development & Reproduction in some freshwater prawns and crabs. - do -
16. M.Rashad-ul Islam Studies on the Benthos of some lotic systems in North-Eastern Hill Regions of India. Dr R.G.Michael
17. A.Pardhasaradhi Faunistic studies of fish fauna in the North-Eastern regions of India, with special reference to their distribution and Zoogeography. Dr J.R.B.Alfred
18. Arabinda Majhi Biology & cytogenetical studies of four selected fish species of North-East Indian Hill stream. Dr K.Chatterjee
19. Ajai Kumar Studies in certain aspects of ecology, experimental breeding & development of Rana cyanophlyctis schneider Dr M.K.Khare
20. Mrinal Dasgupta An investigation on some aspects of the Biology of the Mahseers from the North Eastern India. Dr S.A.K.Nasar
21. A. K. Ziauddin Ahmed Studies on the ecology of Aquatic insects with special reference to fishponds. Dr R.G.Michael

Grouping of courses and distribution of Marks (Tentative)
in Botany

<u>S-semester - I</u>				
<u>Code</u>	<u>Course</u>		<u>Theory</u>	<u>Practical</u>
*BZ1	Cell Biology		100	50
*BZ2	Biostatistics		40	0
B1	Plant Diversity I		100	60
B2	Plant Diversity II		100	60
		Total	<u>340</u>	<u>170*</u>
<u>Semester - II</u>				
*BZ3	Biological Chemistry		100	50
*BZ4	Genetics		100	50
B3	Microbiology		80	40
B4	Anatomy & Embryology of Angiosperms		60	40
		Total	<u>340</u>	<u>180</u>
<u>Semester - III</u>				
*BZ5	Individual & Population Ecology		80	40
*BZ6	Special Paper Pt. I		80	40
B5	Plant Physiology		100	50
B6	Angiosperm Systematics		100	50
		Total	<u>360</u>	<u>180</u>
<u>Semester - IV</u>				
B7	Phytogeography & Evolution		40	
*BZ7	Community Ecology & Ecosystem analysis		80	40
B8	Plant Protection		40	20
B9	Experimental Morphology & Morphogenesis		60	30
B10	Applied Botany		40	20
B11	Special Paper Pt. II		100	60
		Total	<u>360</u>	<u>170</u>

*Papers marked with asterisks are integrated with Zoology.
No. of questions to be attempted in the end semester will be 5, 4, 3 and 2 in theory papers with 100, 80, 60, and 40 as max marks.

Total marks for Theory - = 1400

Total marks for Practicals - = 700

Grand total: Max. marks - = 2100

50% evaluation to be completed throughout the semester as part of the continuous assessment. 50% evaluation to be done at the end of the semester.

PRE PH.D. COURSES AVAILABLE IN BOTANY

(Emphasis shall be placed on research techniques and methodology) for all the courses.

1. Experimental Ecology
2. Ecology of Successional Plant Communities
3. Dynamics and regulations of plant population
4. Microbial ecology
5. Plant pathology
6. Ecology and control of soil-borne pathogens
7. Microbiology of root and its environment
8. Cytogenetics
9. The control of growth and differentiation in plants
10. Experimental morphology
11. Experimental taxonomy
12. Systematic Botany
13. Tree physiology
14. Algal ecology and physiology
15. Molecular basis of cell structure and function
16. Biology of blue-green algae - cellular differentiation and nitrogen fixation.

EXPERIMENTAL ECOLOGY

- a) Forest physical environment.- light, temperature; water relations, wind; fire; soil.
Forest Biological environment - Plant life, biomass, its structure and function; interrelationships between the plants within the forest community; ecophysiology of tree growth - bud dormancy and bud break, shoot elongation, leaf growth, senescence and abscission; physiological changes with age, flowering and fruiting.
- b) Ecological aspects of plant mineral nutrition; seed ecology - dormancy, germination behaviour regeneration and establishment; plant competition; phenotypic plasticity and ecotypic differentiation under varied environmental conditions; Ecological strategies of plants.

ECOLOGY OF SUCCESSIONAL PLANT COMMUNITIES

The concept of succession; structural and functional changes associated with successional communities; Edaphic and Micro-environmental changes. Biomass, productivity and nutrient cycling through developing communities; Hydrology and water chemistry; Eco-physiology of developing communities.

DYNAMICS AND REGULATION OF PLANT POPULATION

1. Basic attributes of the population
2. Demographic studies
3. Life table analysis and survivorship
4. Mechanism of population regulation :
 - (i) Density dependent forces
 - (ii) Density independent forces
 - (iii) Allelopathic effects.
5. Population regulation of weeds in relation to weed-crop interaction and their reproductive strategies.

MICROBIAL ECOLOGY

Microbial community - structure and organisation, species diversity, habitat and niche, food chain, application of invitro information to condition invivo; Dispersal, colonization processes - Succession and climax; Nutrition - availability, regeneration of nutrients in the ecosystem, growth factors, host nutrition and colonization; Tolerance; Interspecific relationships - symbiosis, competition, parasitism; Effect of microorganisms on their surroundings - microorganisms and biogeochemistry with ref. to C.N.P. and S; Effect of microorganisms on plants - morphological and physiological effects, metabolites and pathogenity.

PLANT PATHOLOGY

History of phytopathology in India, Plant diseases, their nature, classification and importance. General characteristic and taxonomy of plant pathogens (i.e. Fungi, bacteria, viruses nematodes, phanerogams, division protista; taxonomy of plant pathogens).

Physiology of plant pathogens, pathogenicity, infection and disease development; Modes of penetration of phytopathogenic microorganisms. Plant pathogen in action after host penetration, enzymes, toxin, polysacharides growth regulators. Resistance before penetration resistance after penetration, predisposition.

Genetical aspects of plant diseases physiology & biochemistry of diseased plant. Environment and nutrition in relation to disease development.

The root environment (i.e. Rhizosphere) in relation to root disease fungi, growth and survival of root disease fungi in soil, fungistasis, Microbial antagonism.

Principles and methods of plant disease control (i.e. chemical, biological control).

Evaluation of fungicidal chemicals. The relation of chemical structure to fungicidal activity.

Pathological problems in forest, seed pathology, forest disease control- General principles, Forest plant quarantine.

Disease of trees

i.e. Sal - Shorea robusta Gaertn. f.

Pine - Pinus kesiya Royle.

Teak - Tectona grandis Linn. F

Sandal - Santalum album Linn.

Eucalyptus - Spp.

Deodar - Cedrus deodara. Loudon.,

Acacia mollissima . Wall

Common trees in north eastern India.

ECOLOGY AND CONTROL OF SOIL-BORNE PATHOGENS

Growth and survival of soil-borne plant pathogen (i.e. Fungistasis, antibiosis, competition, inoculum density and potentiality). Biological control of plant disease (i.e. one of pure culture of antagonistic organism, organic amendments, inorganic amendments, stimulation of antagonist by chemicals or by cultural practices). Role of chemotherapeutant in the biological control of plant disease. Induced disease resistance mechanism in host plants.

MICROBIOLOGY OF ROOT AND ITS ENVIRONMENT

Population dynamics of microorganisms in soil, rhizosphere and rhizoplane. Interaction between rhizosphere and higher plants, Microbial antagonism competition, Decomposition of root.

Mycorrhiza - ectomycorrhiza, vesicular arbuscular mycorrhiza and orchid mycorrhiza; ecology, physiology, morphology and Biochemistry, Interaction among mycorrhizae fungi and root pathogens.

Symbiotic nitrogen fixation in nonleguminous plants by microorganisms.

CYTOGENETICS

Molècular basis of mutation
Mutagenesis at cellular level
Genetics and cytogenetics of forest plants
Cytogenetics of important crops
Genetics and cytogenetics of euploids and aneuploids; use
of translocations and aneuploids in gene location
Haploids - production and utilisation
Genetics system and mutagenesis in cytoplasmic organelles
Somatic cell hybridisation
DNA feeding
Cytogenetics in relation to evolution and plant breeding.

THE CONTROL OF GROWTH AND DIFFERENTIATION IN PLANTS

Growth in higher plants; Patterns of growth and
differentiation; Effects of physical and chemical factors
on the differentiation in apical meristems; Cytodifferentiation
and histogenesis; Hormonal control of flowering and sex
expression in plants; Dormancy and senescence.

EXPERIMENTAL MORPHOLOGY

Microtechnique, macerating fluids and maceration techniques, microdissection and tissue culture techniques photomicrography.

Experimental control of plant growth and development, radiobiology of plants : types of radiations and their mode of action, radiation effects on differentiation and development, radiosensitivity and its modulation by exogenous factors; Effects of plant hormones and growth regulators on differentiation and development in plants.

EXPERIMENTAL TAXONOMY

Evolutionary concepts - Adaptive radiation in Angiosperms - Ecological differentiation of populations - Geographical variations and genetic barriers - Cytology and taxonomy.

SYSTEMATIC BOTANY

General study of the forest types of N.E. India
Different systems of plant classifications
Detailed field and Herbarium methods
Taxonomic literature
International code of plant nomenclature and their applications
Preparation of Taxonomic accounts
Methods of studying forest vegetation
Ethnobotany and its scope
Exotic weeds - their introduction and spread
Recent trends in taxonomy - general idea and chemataxonomy
cytotaxonomy and numerical taxonomy
Population concept - genealogical studies.

TREE PHYSIOLOGY

Tree growth and development - Structural and growth characteristics of trees, Physiology & biochemical seed germination, and seedling development, physiology of seed dormancy and bud dormancy, maturation and phase change in trees, vegetative and sexual reproduction again and senescence in trees.

ALGAL ECOLOGY & PHYSIOLOGY

Ecology and distribution of freshwater, terrestrial and Marine algae. Algal communities of: Hotspring, River, Pond, lakes, Epiphytic endophytic, epizopic, endozoic algae. Extra cellular products of algae and their ecological implications. Chlorophylls and carotenoids in algae; Heterotrophy of carbon, nitrogen metabolism in algae; Pathogens of blue-green algae. Symbiosis and ecology of nitrogen fixation by algae. Organic nutrients, silification and calcification in algae. Physico-chemical factors affecting growth, metabolism and reproduction. Role of vitamins and growth regulators in aquatic ecosystem.

MOLECULAR BASIS OF CELL STRUCTURE & FUNCTION

The course will consider the recent advances in the following fields by analysis of the literature and impart laboratory training in specialised techniques depending upon the availability of the facilities.

Subcellular organization (only brief account); nuclear and organelle nucleic acid; proteins; enzymes and isoenzymes; and other important biomolecules.

BIOLOGY OF BLUE-GREEN ALGAE - CELLULAR DIFFERENTIATION
AND NITROGEN FIXATION

1. Methods pertaining to studies on cellular differentiation and nitrogen fixation.
2. Differentiation of heterocyst and spore - morphology and occurrence, structure and chemical composition, differentiation, biochemistry and metabolism, factors effecting heterocyst and spore formation.
3. Nitrogen fixation - unicellular, filamentous heterocystons and nonheterocystons nitrogen fixers, physicochemical factors affecting nitrogen fixation, nitrogenase enzyme complex, Mechanism of nitrogen fixation, Nitrogen fixation in field, (terrestrial and aquatic systems) genetics of nitrogen fixation.

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ITEM NO. 3

Recommendations of the Post-Graduate Board
of Studies in Geography dated 10-6-80 :

The Head of the Department of Geography has in his letter No. GE/79-80/CM-PHIL-54/163 dated 16th June, 1980 (Annexure - II) informed that the Board of Post-Graduate Studies in Geography considering the application for research supervision submitted by Dr. R. Gopalakrishnan decided as follows :

"That Dr R. Gopalakrishnan, Lecturer in the Department of Geography, NEHU who has completed four years of Post-Graduate teaching in this University, be allowed to supervise research (M.Phil/Ph.D) students. It will help the faculty in running the M.Phil/Ph.D. programme in the Department more effectively by providing more choice to the students in their research specialisation".

Clause 13.3(d) of the Ordinance on the Degree of Doctor of Philosophy (Ph.D) provides as follows :

"The Supervisor shall be a Professor or Reader having adequate experience or a Lecturer having a doctorate degree and a minimum of five years of Post-Graduate teaching experience or five years Post-Doctoral Research experience".

As may be seen from the recommendation that Dr R. Gopalakrishnan has just completed four years of Post-Graduate teaching in this University. It may also be pointed out that he has obtained his Doctorate Degree in 1979 only.

The matter is placed before the Academic Council for consideration.

Annexure - II

Copy of letter No. GE/79-80/CM-PHIL-54/163 dated 16th June, 1980 received from Dr Majid Husain, Head, Department of Geography, NEHU, Shillong addressed to the Vice-Chancellor, NEHU, Shillong.

Dear Sir,

The Department of Geography in its Faculty Meeting (9-6-80) and the Post-Graduate Board held on 10-6-80 discussed the performance and problems of the M.Phil/Ph.D students and found that in the absence of Professor and one Reader, there is inadequacy of qualified supervisors in the Department as a result of which the research students are not getting supervision in the field of their choice and interest.

In this connection, Dr R.Gopalakrishnan's application for research supervision was placed before the Post-Graduate Board which resolved :

"That Dr R.Gopalakrishnan, Lecturer in the Department of Geography, NEHU who has completed four years of Post-Graduate teaching in this University, be allowed to supervise research (M.Phil/Ph.D) students. It will help the faculty in running the M.Phil/Ph.D. programme in the Department more effectively by providing more choice to the students in their research specialisation".

It is therefore, requested that the matter may kindly be placed before the next meeting of the Academic Council for concurrence and approval of Dr R.Gopalakrishnan as a research guide.

With kind regards,

ITEM NO. 4

To consider the decision of the Faculty meeting of the Department of Political Science held on 28 April, 1980:

1. The Department of Political Science endorses the decision of the Academic Council to revert back to the numerical marking system with effect from July 1980.
2. The Department has also resolved to recommend to the Vice-Chancellor, reduction of weightage for internal assessment for the M.A. Programme from 50% to 25%, 75% marks being for the end-semester examinations. (25:75).
3. The Department further resolved that the existing semester system should be replaced by the annual examination system with effect from the next academic session (i.e. July 1980).
4. The Department also resolved that evaluation for the annual examinations should be external.

The Minutes of the above decision of the Faculty meeting are, therefore, placed before the Academic Council for consideration.

ITEM NO.5

Employed candidates seeking admission
to M.A. Programme :

Prof. A.G. George, Dean, School of Languages, has in his letter No.ENG/AIZ/1/79/197 dated 17th December, 1979 (Annexure - III) sought advice and requested the Vice-Chancellor to issue a clear guideline whether candidates holding any kind of appointment both part-time or full-time should be selected for admission to Post-Graduate Programmes or not.

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

- . . -

JL/C/1/viii/

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

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

No. ENG/AIZ/1/79/197
December 17, 1979.

Subject:- Employed candidates seeking admission to our
M.A. Programmes.

Dear Sir,

Among our applicants to the M.A. English class in Mizoram are few candidates who have part-time or full-time employments. You may be pleased to recall to mind that I had brought this problem to your kind notice earlier.

Our academic Ordinance (No.10) reads as follows:

"The Masters degree programmes in the Schools are full -time programmes of study spread over a period of four academic semesters or two academic years. The programmes cannot be combined with any other full-time course or any part-time post-graduate programme offered by the University."

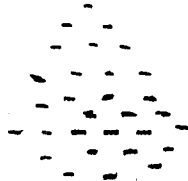
In accordance with the spirit of the above, it has been our practice to deny admissions to candidates who have either part-time or full-time employments. The full implications of the above ordinance are to be clarified. I am, therefore, seeking the benefit of your advice in this matter, requesting that a clear guideline may kindly be issued with regard to this question whether candidates holding any kind of appointment whatsoever should be selected for admission to our post-graduate programmes or not.

Thanking you,

Yours sincerely,

Sd/- A. G. George
Dean, School of Languages,
Professor & Head, Dept. of English

cc: 1. The Pro-Vice-Chancellor, NEHU, Shillong.
2. The Registrar, NEHU, Shillong.



Item No. 6

Allotment of Department of Journalism
and Mass Communication to an appropriate
faculty :

A letter from the Association of Indian Universities
dated 7th July, 1980 on the above subject is placed at
Annexure - IV for information of the Academic Council.

- - -

Annexure - IV

ASSOCIATION OF INDIAN UNIVERSITIES
D INDAYAL UPADHYA MARG, NEW DELHI-110 002

No. EV/VII/(180)/80/18033-18145

July 7, 1980.

The Registrars
Member Universities/Institutes
of the Association.

Dear Sir/Madam,

At the Special Meeting of this Association held in New Delhi on 12th-1-3th May, 1980, a proposal regarding the allotment of Department of Journalism and Mass Communication to an appropriate faculty at different universities in the country was considered when it was resolved that the Department of Journalism may be allotted to the Faculty of Humanities.

The above resolution is communicated for information and necessary action at your end.

Yours faithfully,
Sd/- M.S.Ramamurthy
Deputy Secretary

JL/C/xx/viii/

- - -

Item No. 7

Recommendations of the Fifth Conference
of Directors of State Book Production
Boards and Hindi Granth Academies :

A letter from the Government of India, Ministry of
Education & Culture dated 3rd July, 1980 on the above
subject is placed at Annexure - V for consideration of
the Academic Council.

Annexure - V

No.F.7-4/79.D-III(L)
Government of India
Ministry of Education & Culture
(Department of Education)

New Delhi , the 3rd July, 1980.

To

1. The Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi.
2. Vice-Chancellors of all Universities and Institutions deemed as Universities .
3. Directors of all Book Production Boards and Hindi Granth Academies.
4. Director, Central Hindi Directorate, West Block VII, R.K.P uram, New Delhi.

Sub:- The Fifth Conference of Directors of State Book Production Boards and Hindi Granth Academies - Implementation of recommendations of -

Sir/Madam,

I am directed to say that the question of medium changeover in our universities was discussed by the Conference of Directors of State Book Production Boards and Hindi Granth Academies at its Fifth Meeting held on 13th May, 1980.

2. The Conference made the following recommendations. These are forwarded for your information and necessary action:-

"It was also suggested that larger number of teachers should be involved in book writing; orientation courses should be organised to train the teachers to teach through regional languages; International technical terms should be used during the transitional period; Board of studies of universities should spell out their requirements so that requisite books may be produced by the State Boards according to the time bound programme; an organisational structure should be set up for coordinating the work of the Boards with the medium changeover programme of universities and book purchase policy of the universities should be reoriented."

Contd/---

3. The above recommendations were placed before the Sub-Committee of Vice-Chancellors of the universities appointed by Association of Indian Universities, on 14.5.80. It was agreed that the recommendations should be brought to the notice of all concerned.

4. I shall be grateful for an early response in the matter.

Yours faithfully,

Sd/- K.K.Khullar
Deputy Secretary(L)

JL/C/xx/viii/

Item No. 8

Inclusion of NCC Training Military Science as a subject in University Syllabi Examination :

The Deputy Director of Public Instruction (C), Meghalaya has in his letter dated 2nd June, 1980 (Annexure -VI) addressed to the Vice-Chancellor, requested the University to consider the inclusion of Military Science/ NCC training course as a subject in the University syllabi with provision for giving credit in the University Examination, as an incentive and encouragement to the students joining NCC training in the colleges.

Earlier Brig. S.K.Dey, Director, NCC in his letter dated 6th March, 1979 had made a similar request.

The University, while examining the proposals regarding the feasibility of introduction of NCC as an elective subject at the Degree level, had in a letter dated 1st September, 1979 (Annexure - VII) to all Principals of affiliated colleges requested for comment on the subject. The replies received so far are placed at Annexure - VIII.

The matter is placed before the Academic Council for consideration.

JL/C/

Annexure - VI

Copy of letter No. SCHED/NCC/17176 dated 2nd June, 1980 received from Shri R.N.Dutta, Dy. Director of Public Instruction(C), Meghalaya, Shillong addressed to the Vice-Chancellor, North-Eastern Hill University, Shillong.

Subject:- Inclusion of NCC training military science as a subject in University syllabi examination.

Sir,

I am directed to request you kindly to consider for inclusion of Military Science/NCC training course as a subject in the University syllabi with provision for giving credit in the University examination, as an incentive and encouragement to the students joining NCC training in the colleges. It is learnt that some of the University have taken this decision which was helped in making students more keen and interested for availing of NCC training.

An early action will be highly appreciated.

NORTH-EASTERN HILL UNIVERSITY
Shillong

No. 7-1/SGM/79-
September 1, 1980.

Principal

College

Dear Principal,

Sub:- Scheme of assessment of NCC Cadets
at Under-graduate level .

Vis-a-vis NCC as an Examining subject.

The University is examining a proposal regarding the feasibility for introduction of NCC as an elective subject at the Degree level. Many of our colleges are having NCC Cadets. We have also received requests from Governments concerned for considering this question so that the NCC Cadets who are now working on voluntary basis and who are not getting any benefit of the social services rendered by them may get the benefit reflected in their total result at the Degree level. A copy of the syllabi as proposed by the National Cadet Corps Directorate is enclosed for consideration.

I shall be thankful if you could kindly let me have your comments on this subject at your earliest convenience.

Yours faithfully,

Sd/- S.C. Banwar
Pro-Vice-Chancellor

SCHEME OF ASSESSMENT OF NCC CADETS AT UNDER GRADUATE LEVEL POLICY
AND PROCEDURE

INTRODUCTION

1. With a view to giving credit to the students for their involvement in co-curricular activities such as NCC, NSS, CSS/Community Service and Physical Education, assessment of such activities has been introduced at under graduate level in Arts and Science College by Madras and Madurai Universities from the Academic year 1977-78. The salient points of the scheme of assessment of NCC Cadet as promulgated to the Principals of Arts and Science Colleges by the Universities of Madras and Madurai are given in the succeeding paragraphs.

Madras University.

2. Authority - University of Madras, letter No.V.2/1433, dated 30th May 1977 and No.V.2/1585, dated 18th June 1977 and subsequent discussion between Vice-Chancellor/Director NCC, dated 25th July 1977.

3. Salient Points.

(A) The assessment will be applicable only to under-graduate students of Arts and Science Colleges following Semester pattern, where CSS (Community and Social Service) has been made compulsory.

(b) NCC Cadet in the first and second years will be assessed from a total of 100 marks i.e. 25 marks per Semester in the first four Semesters.

(c) As a rule, in the third year, all students except those who are permitted to continue in the NCC will be required to participate in CSS activities to be assessed for 100 marks. However, NCC Cadets who are permitted to continue in the NCC for the third year to appear for 'C' Certificate examination, will be assessed for their NCC activities out of 100 marks i.e. 50 marks per Semester in the last two Semesters. Such cadets will be exempted from participating in CSS activities.

(d) The award of marks indicated above will be distributed as under :-

(1)	Ist year. (2)	2nd year. (3)	3rd year. (4)
(i) Attendance and Discipline	20	15	30
(ii) Performance and skill (including Range classification)	20	10	45
(iii) Social service, Adventure and Leadership Trg.	10	15	25
(iv) 'B'/'G' I Certificate examination	..	10	..
Total..	<u>50</u>	<u>50</u>	<u>100</u>

Contd....

(e) If any NCC cadets wished to opt for CSS for the entire 200 marks, he/she may be permitted to do so.

Madurai University.

4. Authority - Madurai University, Department of Youth Welfare letter No. 2/107/NCC/YWD/77-78, dated 14th July 1977

5. Salient Points - (a) The assessment will be applicable to Undergraduates students of all Arts and Science Colleges, whether following Semester pattern or not.

(b) NCC cadet in the first and second years will be assessed based on their performance in the NCC. As a rule, in the third year, all students will be required to participate to Community service, except those cadets who are permitted to continue in the NCC for the third year to appear for 'C' Certificate Examination. Such students will be exempted from doing community service, and will be assessed for their NCC activities.

(c) Marks will be awarded out of 100 each year, distributed as under :-

	Ist year	2nd year	3rd year.
(1)	(2)	(3)	(4)
(i) Attendance and discipline	40	35	35
(ii) Performance and skill (including Range classification),	50	30	50
(iii) Social Service-Adventure and Leadership training.	10	15	15
(iv) 'B'/'G' I Certificate examination	20	..
Total	100	100	100

(d) The consolidated marks list will be sent by the Principals to the University at the end of each Academic year. The total marks allotted for co-curricular activities for the three year period will be 200. The assessment for each year being out of 100 marks, the aggregate total marks for the three years (i.e., out of 300) will be made up for 200 when added to the marks list.

(e) There shall be no separate minimum insisted upon for these activities, because of the difficulty of providing for failed, candidates at present. However, the marks obtained in this assessment shall be added to the aggregate in the third part for purpose of classification.

Contd

Assessment of Policy.

6. The assessment will be continuous and internal and will be complied half yearly. The assessment will commence from the Academic year 1977-78 for the first year under-graduate classes.

7. For ease and uniformity in marking, half-yearly assessment on the case of all Colleges of both Universities will initially be made out of 100, in accordance with the distribution given below :-

(a) First year U.G.

	Madras University	Madurai University.
(i) Attendance and discipline	40	40
(ii) Performance and skill (including Range classification)	40	50
(iii) Social Service, Adventure and leadership training	20	10
Total	<u>100</u>	<u>100</u>

(b) Second year U.G.

(i) Attendance and Discipline ..	30	35
(ii) Performance and skill (including Range Classification)	20	30
(iii) Social Service, adventure and leadership training	30	15
(iv) Certificate Examination 'B'/'G' I	20	20
	<u>100</u>	<u>100</u>

(c) Third year U.G.
(For Selected cadets retained).

(i) Attendance and discipline	30	35
(ii) Performance and skill (including range classification)	45	50
(iii) Social Service, Adventure and leadership training	25	15
Total	<u>100</u>	<u>100</u>

Contd

8. Submission of Mark-List - part-time NCC Officers will submit mark list to the Principal duly signed by them and countersigned by OC unit as under :-

(a) Madras University - At the end Semester (since only semester colleges are affected), after reducing the marks allotted out of 100 as indicated in paragraph 7 above to -

(i) 25 per Semester in the first four Semesters.

(ii) 50 per Semester in the last two Semesters.

(b) Madurai University - Marks allotted out of 100 as indicated in paragraph 7 above, at the end of each academic year.

DETAILED INSTRUCTIONS FOR ASSESSMENT.

9. These instructions are based on the assessment pattern obtained in paragraph 7 above, i.e., out of 100 marks. The Sub-Unit Commander (Part Time NCC Officer) will be responsible to maintain ~~xxx xxx~~ all documents pertaining to assessment of Cadets in his/her College, and for their safe custody. Copies of assessment done by boards must be retained by the Unit Commander if in addition to forwarding them to Sub-Unit Commanders.

Attendance and Discipline.

10. Assessment will be based on the Cadets' attendance, punctuality, turn-out and discipline. The sub-unit commander for this purpose will maintain the following documents :-

(a) College N.C.C. Parades Record Register - For Layout see Appendix 'A' attached. Entries will be made on each parade day as under :-

(i) Enter the date of parade as shown in Appendix 'A'.

(ii) Under each date, in column (C) Mark 'P' to indicate 'Present' and 'A' to indicate Absent. Cadet coming for parade up to 20 minutes late will be marked 'P'.

(iii) In column (f) Mark 'L' to indicate late comers. In the case of all others, the column will be scored through.

(i) In column (g) each cadet will be marked out of 10 for turn-out which must be inspected on each parade day. This will include the cleanliness and condition of all items of uniform, polishing, shining, state of repairs of books/shoes, hair cut, shaving, and the personal bearing of the cadet.

(v) In column (h) the Sub-Unit Commander, or in his absence the Officer to be nominated by the Unit Commander not less than the rank of a JCC, will initial for having filled Columns (e) to (g).

Contd

(b) Record of warnings - For layout, see Appendix 'B' attached. Entries will be made as and when a cadet is given a warning for breach of discipline. Such warnings will be given to cadets for specific acts of indiscipline in the presence of the seniormost cadet of that Sub-Unit, and one member of the PI Staff. The cadets will not be penalised under this heading for absence from parade, late arrival on parade, and poor turn-out for which he is being marked separately.

11. Assessment - From paragraph 7, it will be seen that 'Attendance and Discipline' may have to be assessed for 40 marks or 35 marks or 30 marks depending on the year of assessment and the university. Sub-division of marks will be as under :-

	Out of 40	Out of 35	Out of 30
(a) Attendance	15	15	15
(b) Punctuality	5	5	5
(c) Turn-out	10	10	10
(d) Discipline	10	5	5

12. At the end of Semester/Year, assessment will be carried out as above, based on the records mentioned in paragraph 10 above, and as per the following procedure :-

(a) Attendance - The percentage of attendance for the Semester/Year will be worked out from the Register as per Appendix 'A' attached, and the 15 marks will be awarded as under :-

	Marks.
(i) 91 percent and above	13 to 15
(ii) 81 percent to 90	10 to 12
(iii) 71 percent to 80	7 to 9
(iv) 61 percent to 70	4 to 6
(v) 51 percent to 60	1 to 3
(vi) 50 percent or lesser	0

(b) Punctuality - The total number of parade days each cadet has arrived late will be calculated, and the 5 marks awarded as under :-

	Marks
(i) No late arrival	5
(ii) 1 to 2 late arrivals	4
(iii) 3 to 4 late arrivals	3
(iv) 5 to 6 late arrivals	2
(v) 7 to 8 late arrivals	1
(vi) 9 or more late arrivals	0

Contd/...

(c) Turn-out - The average marks scored by the cadet for turn-out during daily parade (i.e. total marks divided by the number of parade days during which marked) is to be credited when the assessment is out of 10. When turn-out is to be marked out of 5, half the above marks should be credited.

(d) Discipline - The basis of assessment will be the entries made in the Record and Warnings Register maintained as per Appendix 'B' attached. A cadet will be given the benefit of full 10/5 marks under discipline if there are no entries in the Register against him/her. One mark will be deducted for every minor breach of discipline and two marks for every major breach of discipline while marking from 10. When marking out of 5, 1/2 marks will be deducted for every minor breach, and one mark for every major breach of discipline, recorded.

13. Compilation - Assessment as above will be compiled on a form as per Appendix 'C' attached for Madras University, and as per Appendix 'D' attached for Madurai University, before compiling the overall assessment.

Performance, skill and Range Classification.

14. Weightage - Vice paragraph 7 above, those are to be initially assessed out of marks indicated below in the two Universities in each year of undergraduate level :-

Year (1)	Madras University (2)	Madurai University (3)
(a) I	40	50
(b) II	20	30
(c) III	45	50

15. There is an apparent reduction in the weightage given in the second year. This is due to the fact that 20 marks are awarded in both universities in the second year for 'B' / 'G' I Certificate Examination results, which is virtually a test in performance and skill. Where Semester-wise assessment is made, these 20 marks will be credited in the fourth semester, and corresponding adjustment in the marks awardable for performance and skill made in the third semester.

16. For ease and uniformity in assessment, 'Performance, skill and Range Classification' will initially be assessed out of 100 marks as per details given in the succeeding paragraphs, and subsequently reduced as given in para 14 above for the different universities/years.

Contd/...

16. Subjects to be covered and scope for testing - The syllabi of arms/services vary considerably. Therefore any attempt to make a uniform system of assessment for all arms and services will neither be realistic, nor practicable. Based on the yearwise syllabi of the various arms and services, the subjects to be included for test in each half year has been worked out and placed at Appendix 'E' attached.

18. Distribution of Marks - These are also given in Annexures to Appendix 'E' attached, year-wise for each arm/service.

19. Method of Assessment - (a) Practical Tests - All practical tests as given in annexures to Appendix 'E' attached, except Range Classification will be conducted by a Board of Officers, with the Unit Commander/Administrative Officer (Regular Officer) as the Presiding Officer, and the Part time NCC Officer(s) of the concerned colleges and one or more JCOs from the PI Staff as members. In exceptional cases, Havildars who are specialists in a given subject may be detailed as members for testing that subject. The Board will be constituted by the Unit Commander, twice a year for each college where the assessment is applicable. The test will be conducted on a Country-fair system, on dates to be fixed in direct consultation with the Principals concerned. The cadets will be given a minimum of days notice. Board proceedings will be prepared and kept on record for a period of three years.

(b) Range Classification - Results will be converted into marks as per guidelines explained below, and credited in the 2nd, 4th and 6th semesters/half years marks will be awarded based on the performance in 303 rifle firing, except in the case of girls cadets whose performance in range in .22 rifle firing will count in stations where .303 range facilities are not available assessment may be based on .22 rifle firing. Additional .22 ammunition if required by any Unit/Sub-Unit for this purpose, will be arranged by the Group HQ by inter Sub-unit/Unit adjustment. One of the conditions for the raising of an NCC sub-unit in any college is that adequate range facilities will be provided. 303 firing is an important aspect of NCC training and all institutions must render all possible assistance to convey cadets to the range classification. Marks will be awarded as under for any one selected practice to be decided by the OC Unit :-

(i) Marksmen	9 to 10 marks depending on actual score.
(ii) 1st Class shots ..	7 to 8 " " "
(iii) Standard Shots ..	4 to 6 " " "
(iv) Below standard shots ..	0 to 3 " " "

Contd/...

(c) Written Test (Quiz) - The paper will be set by the Group Commander separately for each Station and test conducted in all colleges of the same Station on the same date and timings. Invigilation will be arranged by the units. Making use of part-time officers and PI staff, Evaluation will be done by a Board of Officers to be nominated by the Unit Commander, with the help of the model answers provided by the authority setting the paper.

20. Completion - Results of performance and skill will be compiled in the result sheet prepared as per specimen given in Appendix 'F' attached.

21. Social Service, Adventure and Leadership Training

21. For the initial assessment out of 100, the marks to be awarded for these subjects in Madras and Madurai Universities for each year are as under :-

Year. (1)	Madras University (2)	Madurai University (3)
I	20	10
II	30	15
III	25	15

22. Social Service - The projects listed below are available although one cadet will not be able to participate in all the projects in a year. It must be ensured that every cadet is associated with a minimum of two preferably more projects.

- (a) Maintenance of archaeological monuments.
- (b) Assistance to the handicapped - i.e., Deaf and dumb, blind, cancer, patients, inmates of mercy homes, cheshire homes. assisting the patients in hospital, etc.
- (c) Adoption of villages/slums.
- (d) Public services such as adult literacy campaign, health campaign, traffic control duties and so on.
- (e) Blood donation.
- (f) Construction of link-roads, de-silting of tanks, tree planting etc.

23. Assessment of cadets for social service should be based on the following aspects giving equal weightage to be assessed by the part-time NCC Officer of the colleges concerned :-

- (a) Regularity and enthusiasm.

Contd/...

- (b) Involvement in the work, considering no social service as below one's dignity (willingness to cheerfully soil one's hands).
- (c) Method of working-systematic and methodical.
- (d) Organising and planning ability.
- (e) Human relationship - attitude towards the people being assisted, and towards other members of the team.
- (f) Achievements - results produced.

24. Marking - The part-time NCC Officers should keep his observation on cadets on the above lines recorded, on all occasions when social services is undertaken. Cadets of Madras University will be marked out of 10 in the first year, 20 in the second year and 20 in the third year. Cadets of Madurai University will be marked out of 5 in all semesters/years.

25. Adventure and Leadership Training - These are not treated in isolation, because the more adventurous a task undertaken the greater will be the need and opportunities for leadership qualities to emerge. These may be ~~assessed at the~~ assessed at the following occasions :-

- (a) During obstacle course training.
- (b) During adventure expedition/training of various types (cycling, hiking, sailing, mountaineering, rock-climbing, etc., organised).
- (c) During performance of group tasks where major obstacles are to be negotiated as a group having no appointed leader, for which a separate instructions are being issued. (Every cadets will be put through this course in the second year of training).
- (d) During 'Command Tasks' where major obstacles are to be negotiated under a nominated leader, for which separate instructions are under issue. (Every cadet will be appointed as leader for such tasks in the third year/training) /of
- (e) During normal parades where cadets are appointed as 'Leaders' for specific purpose by rotation.
- (f) During group planning exercises when held.

Contd/...

26. Assessment of cadets for these subjects will also be done by the part-time officers and/or unit Commanders, based on the performance over the entire year/semester. The following aspects should be assessed :-

- (a) Keeness to undertake adventurous tasks.
- (b) Ability to overcome problems.
- (c) Grit and determination.
- (d) Physical and moral courage.
- (e) Planning and organising ability.
- (f) Physical and mental stamina.
- (g) Team spirit - ability to work as a useful member of the team and ability to keep the team together as a leader.
- (h) Does he/she emerge as a leader in a leaderless group?

27. Marking - The part time NCC Officers should keep a continuous assessment record on cadets on these aspects. The marking will be out of the totals given below :-

Year (1)	Madras University (2)	Madurai University (3)
I	10	5
II	10	10
III	5	10

Certificate Examination -

28. All cadets of both universities will be given a credit of 20 marks (awardable) in the initial assessment in the second year/ fourth semester for their performance in the 'B' /G-I Certificate examination. This examination is conducted by a Board of Officers detailed by the Directorate. Marks awarded will be exactly proportionate to the marks scored in the Certificate Examination.

CONCLUSION

Preparation and submission of mark lists:-

29. Madras University - The marks are to be awarded semester-wise, out of a total of 25 each for the first four semesters and 50 each for the last semesters, to count for final university marking. Whereas initial assessment as per procedure outlined in paras 9 to 28 above will be out of 100 in all semesters. Therefore marks will be consolidated and appropriated in a final assessment sheet as given in Appendix 'G' attached. The appropriated marks given in the last column will then be submitted to the Principals duly signed by the part-time NCC Officer and countersigned by the OC Unit.

Contd/....

30. Madurai University - since marks are to be submitted annually out of 100, and appropriation is being done by the University, assessment sheet as in Appendix 'G' attached maybe submitted without the last column.

Appeals -

31. The Appellate Authority shall be a Committee comprising of the principal of the college concerned, the Unit Commander and the seniormost part-time NCC Officer in station, other than the Company Commander involved in the assessment being appealed against. In the case of the college of the seniormost NCC Officer, the next senior NCC Officer in Station shall be the member.

Contd/..

APPENDIX 'A'

COLLEGE NCC PARADE RECORD REGISTER- 1977-78.

INSTITUTION _____

Unit _____ Copy _____ First/Second/Third Year
Students

Sl. No.	Register No.	Rank	Name	Parade Days		and as on					
				14th August 1977	21st August 1977	P/A	Late	Turn	Initial	P/A	Late
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
1	xxx	Cadet A	(Madras) University	P	..	7	£	P	L	6	

* £ In the 1st semester Cadet 'A' attended 15 parades out of 20, but was late on 2 occasions. Total of 48 marks scored for turnout assessed on 8 occasions.

2	xxx	Do	B(Madurai) University	A	£	P	..	8	
---	-----	----	-----------------------	---	----	----	---	---	----	---	--

* £ Cadets 'B' attended 18 parades out of 20, but was late on 3 occasions. Total of 49 marks scored for turnout assessed on 7 occasions.

APPENDIX 'B'

RECORD OF WARNING TO NCC CADETS FOR BREACH OF DISCIPLINE - 1977-78

Institution _____

Unit _____ Company _____

Sl. No.	Regiment No.	Rank	Name	Date of warning	Nature of breach of discipline	Signature of the Officer giving warning
1.	XXX	Cadet	'A' (Madras University)	20th Sept. '77.	Will fully breach queue during refreshment distribution (Minor)	(Signed)
2.	XXX	Cadet	'B' (Madurai University)	27th Sept. '77.	Abusing his Platoon Sgt. (major)	(Signed)

APPENDIX 'C'
 MARK SHEET FOR ATTENDANCE & DISCIPLINE - YEAR
 (For Madras University)

Institution _____ Unit _____ Copy _____

Sl No	Rgt No	Rank	Name	First Semester				Second Semester				Third Semester				Fourth Semester							
				Att	Pu	Tu	Di	To	At	Pu	Tu	Di	To	At	Pu	Tu	Di	To	At	Pu	Tu	Di	To
1	XXX	Ca	A	15	5	10	10	40	15	5	10	11	40	15	5	5	5	30	15	5	5	5	30
		de	Mad	8	4	6	9	27															
		t	ras																				
			Uni																				
			ver																				
			sity																				

APPENDIX 'E'

SUBJECT FOR TESTIIG IN PERFORMANCE & SKILL

Introduction -

1. The syllabi prescribed for various arms/services vary. Testing is to be based on the subjects taught during the period proceeding the tests. Technical units are not concerned with this assessment.
2. Considering the above, the scope of subjects to be tested i half-yearly is given separate for each year and for each arm services.

Layout -

3. Annexure :- Subjects for testing in the First-year -
 - (a) Annexure - I-A Infantry
 - (b) " - I-B -- .. Armour
 - (c) " - I-C Artillery
 - (d) " - I-D Navy
 - (e) " - I-E Air
 - (f) " - I-F Girls
4. Annexure 2 - Subjects for testing in the s econd year :- Annexure - 2-A to 2-F as above, will be issued in due course.
5. Annexure - 3 - Subjects for testing in the third-year :- Annexure 3-A to 3-F as above, will be issued in due course.

ANNEXURE I-A TO APPENDIX 'E'
 SUBJECT FOR TESTING IN FIRST YEAR INFANTRY

Sl. No.	Subjects	Marks	Scope	
			First Semester	Second Semester
1.	Drill	20	(a) Basic foot drill movements (b) Marching with out arms	(a) All foot drill movements. (b) All arms drill movements
2.	Weapon Training	20	(a) Rifle-upto 'Trigger control and firing a shot' (b) Bayonet-upto 'the point'	(a) Rifle-classification firing. (b) L.M.G.-upto 'Mechanism'
3.	Field Training	10	Field craft upto 'Personal camouflage and concealment.	(a) Field craft upto 'Movement with and without arms' (b) 'Knots & lashes'
4.	Map Reading	10	Upto 'Cardinal Points and finding North'	Upto 'Setting map & finding own position'
5.	First Aid	10	- -	S t. John Ambulance certificate
6.	Self-defence	10	Upto portion covered.
7.	Quiz	20	On subjects not covered by practicals.	On subjects not covered by practicals

ANNEXURE I-B TO APPENDIX 'E'
 SUBJECT FOR TESTING IN FIRS T YEAR ARMOUR

Sl No	Subject	8 Marks	SCOPE	
			First Semester	Second Semester
1.	Drill	20	(a) Basic Foot drill movement (b) Marching without arms	(a) All foot drill movements (b) All arms drill movements
2.	Weapon Training	15	Rifle upto Trigger control and firing a shot	Rifle-classification firing
3.	Field Training	10	(a) Recognition & description of targets (b) Judging distance (c) Personal camouflage	(a) Move with and without arms. (b) Fire and movement. (c) Patrolling
4.	Map Reading ..	10	Conventional signs use of compass and service motor tractor	Setting a map and finding own position
5.	Special to Corp subjects practical ..	10	(a) Sequence of starting of B Veh.	(a) Netting and finding own position
6.	Quiz ..!	35	Upto portions covered in respect of all subjects not specified above	Upto portions covered in respect of all subjects not specified above.

NOTES : All other portion covered in First year will have to be covered by Quiz .

ANNEXURE I-C TO APPENDIX 'E'
 SUBJECTS FOR TESTING IN FIRST YEAR ARTILLERY

Sl. No.	Subject	Marks allotted	Scope	
			First Semester	Second Semester
1.	Drill	20	(a) Basic for drill movements (b) Marching with out arms	(a) All foot drill movements. (b) All arms drill movements
2.	Weapon Training	15	Rifle-up to trigger control and firing a shot	Rifle classification firing
3.	Field Training	10	(a) Recognition & description targets (b) Judging distance (c) Personal camouflage.	(a) Move with and without arms. (b) Fire and movement (c) Patrolling
4.	Map Reading	10	Conventional signs use of compass service protractor	Setting a map and finding own position.
5.	Special to Corps Practical	20	(a) Description of the gun, its various parts and functions. (b) Task system (c) Netting and tuning of WS No.62 (d) Gun drill up to section 9	(a) Stripping and assembling of breach mechanism and firing lock (b) Sedding a UR message. (c) Use of unicode and slidex (d) Indication of targets and initial orders.
6.	Quiz	35	Upto portions covered	Upto portions covered.

* Quiz on A mr, general terms, ballistics and fire discipline.

ANNEXURE I_D TO APPENDIX 'E'
SUBJECTS FOR TESTING IN FIRST YEAR NAVY

Sl. No.	Subject	Marks allotted	Scope	
			First Semester	Second Semester
1.	Drill	20	(a) Foot drill upto 'to 'Tunning at the march and wheeling! (b) Arms drill 'Attention, attended at ease stand, easy''	(a) Foot drill upto squad drill. (b) Arms drill saluting at the shoulder at the halt on the march
2.	Weapon Training	15	Upto Range procedure and safety precautions.	Range firing
3.	First Aid ..	15	Upto general description of heart and circulatory system pressure points types of heamorrhage bruises.	Upto 'Proportion receive and treat accident and air raid casualties, Emergencies resuscitation and recaptulation.
4.	Special to Corps subjects -			
4.	Communication	10	Emaphore transmission and phonetic alphabets.	Semaphore reception at 4 words per minute.
5.	Seamanship	20	(a) Use of and demonstrate Reef knots sheet bend Bowline, Clove Hitch and hal Hitch. (b) Parts of the boat and car	(a) Upto coiling down flaking and chassing and rope climbing. (b) Boat pulling and cowaning of a pulling boat.
6.	Quiz Civil Def. Service lectures, Elementary Navy, Navigation and General ship modelling, shift, safety.	20	Upto syllabus covered	Upto syllabus covered

ANNEXURE I-E TO APPENDIX 'E'

SUBJECT FOR TESTING IN FIRST YEAR AIR

....

Sl. No.	Subject	Marks allotted	Scope	
			First Semester	Second Semester
1.	Drill	(100) 20	Upto 'Marching & Kadam Tal in quick tune and halt.	Upto marching saluting turns, paying compliments while on the march, and charging slips.
2.	Weapon Training	20	(a) Raffle-Lying position holding & aiming. (b) Introduction to a revolver (c) Introduction to 12 Bore gun.	(a) Range procedure and rifle range classification (b) Pistol hildong. (c) 12 Bore skeet shooting
3.	Aeromodelling	15	To be judged on the standards	To be judged on the standards.
4.	Quiz on service subject organisation, precepts of flight, aircraft components, Airmanship Air Navigation.	45	Upto position covered	Upto position covered

ANNEXURE I-F TO APPEND IX 'E'
 SUBJECTS FOR TESTING IN FIRST YEAR SENIOR
 WING GIRLS

Sl. No.	Subject	Marks allotted (100)	Scope	
			First Semester	Second Semester
1.	Drill	20	(a) Upto get on parade dismissing and fall out.	'Arms drill upto 'Dismission fall out second drill
2.	Weapon Training	20	Upto 'Trigger-control' and firing a shot.	Range procedure and range firing
3.	Self-defence ..	10	Upto 'Attack I'	Upto 'Basic training'
4.	First Aid	15	Upto 'Dislocation, sprain, strains and their treatment	Upto 'Preparation to receive and treat accident, air raid casualties, emergency resuscitation and recapitulation'.
5.	Signals	20	Upto exchange magnate to line description & functions.	Upto connecting & putting through single and multiple calls
6.	*Quiz	20		
	*20 markf for Quiz			
	Quiz on - Health, Hygiene and Sanitation and Civil Defence posture tra-ining and map reading.			

MARK SHEET FORM + PERFORMANCE AND SKILL
YEAR/SEMESTER NO. I/II/III/IV/V/VI.

Institution _____ Unit _____ Company _____

Sl. No.	Regt. No.	Rank	Name	Marks scored subject-wise out of 100										Marks reevaluated to University requirements	
				Dri-ll	W.T.	Ed. Trg.	Map-reading	Civ- il defence	st- aid	(j)	(k)	(l)	(m)		(n)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
1.	xxx	Cdt.	A (Madras)	22	20	16	5	7						70	Assessed as per Annexure I-A & Appx 'E' 70/100 x 40-28
2.	xxx	Cdt.	B (Madurai)	24	21	15	8	9						80	80/100 x 50-40

NOTES :- (a) In Columns (k) to (m) i insert the additional subjects as applicable arm/service as applicable, annexures to appendix 'E' refer.

(b) Under Column s (e) to (m) insert marks awardable as per Annexures to Appendix 'E'

APPENDIX 'G'

FINAL ASSESSMENT SHEET FOR INTERNAL ASSESSMENT OF
N.C.C. CADETS

Institution _____ Unit _____ Company _____
Year of Assessment: First/Second/Third* Semester No. I/II/III/IV/
V/VI*

Sl. No.	Regtl. No.	Rank	Name	Initial Assessment (100)				Total	Appropriate Marks
				Attendance & discipline	Personal & character	Social & service	Certificate examination		
1.	XXX	Cadet	'A' Madras	27/40	28/40	14/20	N.A.	69	69x25/100 i.e. 17225 out of 25
2.	XXX	Cadet	'B' Madurai	30/40	40/50	8/10	N.A.	78	78 out of 100.
+									

*Delete words inapplicable
Insert 40/30/35 as applicable,
Insert 50/45/40/30/20 as applicable.

\$ Insert 30/25/15/10 as applicable. 3 Applicable for second year only. Applicable for Madras University only 25 for first four semester 59 for last two.

ANNEXURE II - A TO APPENDIX 'E'
SUBJECTS FOR TESTING IN SECOND YEAR INFANTRY

Sl. No.	Subject	Marks allotted (100)	Scope	
			Third Semester	Fourth Semester
1.	Drill	15	(a) Drill with arms, all movements (b) Guard Mounting (c) Continuity drill without arms	(a) Continuity drill with arms. (b) Guard of Honour. (c) Cane drill all movements.
2.	W-eapon Training	20	(a) Rifle Handling (b) Bayonet upto 'Self Defence' (c) Rifle firing	(a) LMG Elementary handling. (b) LMG firing.
3.	Field Training	30	(a) Field craft upto observation & concealment. (b) Battle craft upto 'Section formation.'	(a) Battle craft upto section Battle drill. (b) Scout, patrols and ambush complete
4.	Map Reading	10	Upto 'Map to ground'	Upto 'Setting Compass for night march and preparation of night march chart.
5.	Quiz	25	On subjects not covered by practicals (a) Organisation (b) Field Engines (c) Health, Hygiene and Sanitation. (d) Civil Defence	On subjects not covered by practicals. (a) Organisation (b) Field Engineering (c) Health, Hygiene, and Sanitation. (d) Civil Defence.

A N N
ANNEXURE II - B TO APPENDIX 'E'
SUBJECTS FOR TESTING IN SECOMD YEAR ARMOUR

Sl. No.	Subject	Marks allotted (100)	Scope	
			Third Semester	Fourth Semester
1.	Drill	15	(a) Drill with arms all movements (b) Guard Mounting (c) Continuity drill without arms	(a) Guard of Honour (b) Continuity Drill with arms. (c) Rifle-firing
2.	Weapon Training	10	Rifle handing test	Rifle firing
3.	Field Training	10	(a) Judging distances. (b) Selection of fire positions	(a) Simple verbal orders (b) Laying of an ambush (c) Section formation
4.	First Aid	10	Upto First Aid for sprains, dislocation and fractures.	(a) Artificial respiration (b) First aid for burn-s, snake/scorpion bites. (c) Carriage of sick wounded.
5.	Map Reading	10	(a) Scales: countours. (b) Setting a compass	(a) Map to ground and ground to map (b) Preparation of a night march chart.
6.	Special to Corps	30	(a) 30 Browning stripping and assembling (b) Sending a simple message on the RS taught after setting (c) Troop formation and fire and move.	(a) 30 Browning immediate action. (b) Marking a set a call and passing KR mess ages (c) Maintenance of Armed Cars/16 Cwt trucks (d) Handsignal within the troop.
7.	Quiz	15	Upto portion covered in respect of all subjects not covered above.	

ANNEXURE II - C TO APPENDIX 'E'
 SUBJECT FOR TESTING IN SECOND YEAR
 ARTILERY

Sl. No.	Subject	Marks allotted (100)	Scope	
			Third Semester	Fourth Semester
1.	Drill	15	(a) Drill with arms all movements (b) Guard mounting (c) Continuity drill without arms	(a) Guard of Honour (b) Continuity drill with arms. (c) Cane drill
2.	Weapon Training ..	10	Miniature range firing	Long range firing
3.	Field Training --	10	(a) Selection of fire position (b) Simple verbal orders	(a) Laying an am- (b) Section formation
4.	First Aid	10	(a) Upto First Aid for fractures, sprains and dislocation	(a) Artificial Respiration (b) First aid for Burns and snake bites. (c) Carriage of the sick and wounded.
5.	Map reading	10	Map to ground & ground to Map	Setting a compass and preparing a night march chart.
6.	Special to Corps	30	(a) Fire orders community used. (b) Procedure covered so far (c) Gun drill upto section 22 (d) Development drill	(a) Orders for engagement. (b) RT procedure covered so far (c) Gun drill upto section 50 (d) Line equipment
7.	Quiz	15	Upto portions covered of all subjects not covered by practical tests.	

ANNEXURE II - D TO APPENDIX 'E'
SUBJECTS FOR TESTING IN SECOND YEAR NAVY

Sl. No.	Subjects	Marks allotted (100)	Scope	
			Third Semester	Fourth Semester
1	Drill	15	(a) Drill with Arms all movements (b) Guard Mounting (c) Continuity Drill without arms	(a) Continuity Drill 'With Arms' (b) Guard of Honour (c) Cane Drill all movements
2.	Weapon Tra-ining ..	10	Rifle handing test	Rifle Range firing
3.	S-elf Defence-Karate Judo Boxing/Wrestling	5	Attack - 1 & 2 Basic Throws	-
4.	Swimming	5	-	Be able to swim at least 30ft. length at a stretch
5.	Communication	15	Reception of morse at Four words per minute	Transmission of morse at 4 words per minute.
6.	Seamanship	30	(a) Rigging (i) To make short splice, long splice (ii) Making of round turn, two half hitches, bow line on the bight (b) Boat work Practical sailing (i) Rigging of sailing dinghy. (ii) Ability to change tacks	(a) Boat work (i) Rigging on a whaler (ii) Ability to handle a sailing boat independtly (iii) Anchoring, securing and towing at boat. (b) Demonstration of folling pipes: still, carry on general call.
7.	Quiz covering civil defence, leadership Hygiene and Sanitation. Service lecture Elementa-ry, Navigation, TAS and Ship modelling.	25	Upto syllabus covered	Upto syllabus covered

ANNEXURE - II - E TO APPENDIX 'E'
 SUBJECTS FOR TESTING SECOND YEAR
A I R

Sl. No.	Subjects	Marks allotted (100)	Scope	
			First Semester	Second Semester
1	Drill	15	(a) Drill with arms all movements	(a) Continuity Drill with arms.
2.			(b) Guard Mounting.	(b) Guard of Honour.
			(c) Continuity Drill without arms.	(c) Cane Drill all movements
2.	Weapon Training	10	Rifle-handling tests.	Rifle-range firing
3.	First Aid and casevac	10	Upto Fractures	Final test.
4.	Air Craft recognition	5	Upto syllabus covered	Upto syllabus covered.
5.	Aeromodelling	25	As per Standards	As per Standards.
6.	Quiz on service subjects, organisation, principles flight, Air Craft components, Air-manship, Air Navigation.	35	Upto portion covered.	Final test ..

ANNEXURE II TO APPENDIX 'E'
SUBJECTS FOR TESTING IN SECOND YEAR

S. W. CADETS (GIRLS)

Sl. No.	Subjects	Marks allotted (100)	Scope	
			Third Semester	Fourth Semester
1.	Drill	20	Upto saluting at the March.	Arms Drill upto saluting at the shoulder at the halt and on the march.
2.	Map Reading	10	Upto grid system	Upto types and bearing and use of service protector.
3.	Weapon Training/ Self Defence	10	Range firing	Upto disarming and counter attack.
4.	Home Nurhing	15	Upto preparation of different kinds of beds & changing sheets without disturbing the patient	Upto feeding a helpless patient.
5.	Signals	15	Upto practical passing of standard messages by phone	Upto block diagram of wireless set, link sign calling and answering.
6.	Posture Training ..	10	Upto correct walking and exercised for improving use of legs & feet.	Upto climbing ladders and chairs.
7.	Quiz	20	Quiz-on-Hygiene, and Sanitation, Child care and mother craft.	..

Annexure - VIII

ST. EDMUND'S COLLEGE:: SHILLONG

5. 9. 79

To : Dr S.C. Banwar
Pro-Vice-Chancellor, NEHU.

Sub:- NCC as an Examining Subject.

Dear Sir,

Your letter, Ref. No.C:T-1/SGM/79-2099 dt. 1.9.79 to hand, thanks for same.

After giving mature consideration to the matter, I am convinced that as the NCC students are rendering social service, the question of rewarding them in any way, especially with marks, etc., for examination purposes, does not arise.

Students involved in the NSS etc., are likewise engaged in social activities and they do not seek or get such rewards.

A service which has benefits attached to it loses the right to be termed a social service.

With renewed regards,

I remain, dear Sir,

Yours faithfully,

Sd/- M.G. Shannon

ST. MARY'S COLLEGE:: SHILLONG

To: Shri S.C. Banwar
Pro-Vice-Chancellor,
NEHU, Shillong.

Sub:- Scheme of assessments of NCC Cadets at Under-Graduate level.

Dear Sir,

With reference to your letter No.G.7-1/SGM/79-3132 dated 27.6.80 we will be pleased if you will kindly send us a copy of letter No.G.7-1/S GM/79-2099 dt. 1.9.79 as the same is not available at this Office.

Yours faithfully,

Sd/- Illegible,
Principal

PATKAI CHRISTIAN COLLEGE :: CHUMUKED IMA :
NAGALAND

October 14, 1979.

Dr S .C. Banwar
Pro-Vice-Chancellor
NEHU,
Shillong

Dear Dr Banwar,

It was good to meet with you in Shillong last week for the first time. I am fully aware of the predicament you and Dr Dhan are in, particularly political pressures that you have to live with every day. I certainly don't envy your job.

I had in mind to tell you about the proposed NCC program for the under graduate students. I am all for it. I certainly prefer NCC over NSS because at Patkai social work is something we do daily.

Discipline is one thing most of my students lack, and I will be the first person to support NCC program at Patkai.

With warm regards,

Sincerely yours,
Sd/- Tuisem A. Shishak

OFFICE OF THE PRINCIPAL:: AIZAWL COLLEGE: AIZAWL: MIZORAM
No. AC 38/79-80/18 Dated Aizawl, the 18th Sept. 1979.

To The Pro-Vice-Chancellor
NEHU, Shillong.

Sub:- Scheme of assessment of NCC Cadets at under-graduate level.

Ref:- Your letter No. G-7-1/S GM/79-2099 dt. 31.8.79.

Sir,

With reference to your letter quoted above, I have the honour to state that we have no NCC in this college. Hence there is no comment to offer.

Yours faithfully,
Sd/- Illegible,
Principal,
Aizawl College,
Mizoram

LADY KEANE GIRLS' COLLEGE :: SHILLONG

Ref.No. C/8/631447

Date 16.7.1980.

From:

Miss A.M.Marbaniang, M.A.,
Principal,
Lady Kesne Girls' College,
Shillong.

To

The Pro-Vice-Chancellor
NEHU
Lower Lachauchiere,
Shillong

Sub:- Schemè of assessment of NCC Cadets at un-dergraduate level.

Sir,

In inviting a reference to your letter No.G.7-1/SGM/79-3132 dt. 27.6.80 on the subject cited above, I would like to offer the following comments :

1. Introduction of NCC as an elective subject at the Degree level does not appear to be practical, nor helpful to the students who pass out. Students offering Honours in different subjects will not be able to take NCC as one of their pass subjects as they are to attend more classes than the pass students. Neither will they find time for attending the various physical training exercises and camping associated with the subject.
2. The pass students will have to take besides NCC only one other subject. Students who will later appear in various written competitive examinations in connection with their employment will find this a handicap as NCC is not included as one of the subjects in various competitive examinations.
3. NCC may be included as one of the subjects at the Pre-University level. At the P.U. level, students offer three subjects with an option of offering one more subject. The science students will have some difficulty as they are to attend practical classes, hence students offering Arts with four subjects may offer NCC as one of their subjects without disturbing their academic programme.

Thanking you,

Yours faithfully,

Sd/- A.M.Marbaniang,
Principal,
Lady Keane Girls' College,
Shillong.

- - -

TURA GOVERNMENT COLLEGE :: TURA

D.O. letter No. 1995 Dated Tura, the 10th July, 1980.

From:

Shri K.M.Momin,
Principal,
Tura Govt. College, Tura.

Dear Sir,

Officer Commanding, 2 Meghalaya Battalion NCC Shillong, informed that he has approached you for consideration of introducing Military Science as one of the elective subjects in the first degree course in our University. In this connection I feel that the idea is worth giving a thought as students who are now interested in NCC may get a better scope for the study of the subject and also help getting jobs in the military and para military departments.

With regards,

Sincerely yours,

Sd/- K.M.Momin
Principal,
Tura Govt. College,
Tura.

To

Dr A.K.Dhan,
Vice-Chancellor,
NEHU
Shillong.

ITEM NO. 9

To consider introduction of Defence Studies
at the Under-Graduate level in the Universities
and Colleges :

The UGC vide its letter No.F.1-59/78(CP) dated 23 February, 1980 (Annexure - IX) has forwarded a set of syllabus (Annexure - X) stating that in its meeting held on 18 January, 1980 considered the **recommendations of the** Committee appointed by it regarding **introduction of defence** studies at the under-graduate level in the Universities and Colleges. The Commission has duly accepted the recommendations of the Committee that Universities and Colleges may provide defence studies as one of the subjects at the under-graduate level, if they so desire.

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

- - -

J/C/1/

UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI

No.F.1-59/78(P)

February, 1980.

To,

The Registrar,
North Eastern Hill University,
P.O.Lower Lachumier,
Shillong.

Sir,

I am directed to say that the University Grants Commission at its meeting held on 13th January considered the recommendations of the Committee appointed by it regarding introduction of defence studies at the under-graduate level in the Universities and colleges. The Commission accepted the recommendations of the Committee that Universities and Colleges if they so desire, may provide for defence studies as one of the subjects at the under-graduate level. It was also agreed that the syllabus suggested by the Committee may be circulated to the Universities for their guidance.

Accordingly, I am enclosing a set of syllabus suggested by the Committee for defence studies at under-graduate level for guidance of the University.

Enclo: as above.

Sd/-C.M.Ramachandra)
(Under Secretary)

Undergraduate Course- Defence Studies

B.A./ B.Sc.

Paper - I

Indian Military History

AIM : The main idea behind this paper is to give a conceptual background about the events and factors which influenced the course of history and helped in developing the art of war in India.

Part - I (3rd Century B.C. to 12 Century A.D.)

- A) Comparative study of Indo-Greek art of war with special reference to the Battle of Hydaspes 326 B.C.
- B) Mauryan Military System as described by Megasthenese.
- C) Kautilya's philosophy of war, concept of Defence and Security Military Organisation and Inter-State relations.
- D) Decline of chariots and the importance of Elephants and Cavalry up to 7th Century A.D.
- E) Rajput and Turk Pattern of warfare with reference to Somnath and Tarain up to 12th Century A.D.
- F) Army Organisation during Sultanate period.
- G) Mughal Military System - with reference to the Battle of Panipat 1526 and Battle of Haldighati 1576.

Part -II

- H) Maratha Military System with reference to irregular warfare of Shivaji and the Battle of Panipat 1761. Anglo-Maratha War with reference to the Battle of Assaye- 1803
- I) Military Organisation under Guru Govind Singh, Ranjeet Singh. Anglo-Sikh Warfare with reference to the battle of Sorbraon 1846 A.D.
- J) 1857 liberation movement & Reorganisation of the Indian Army under the crown.
- K) Progressive nationalisation of the Indian Armed forces with reference to the Nationalist environment.
- L) Nationalisation of Indian Army after independence.

P. T. O.

Reading List :

1. Military System in Ancient India : B.K.Majumdar
2. Generalship of Alexander the Great : Maj. Gen. J.F.C.
- Fuller.
3. Kautilya Arthasastra : K.P.Kangley
4. Military History of India : J.N.Sarkar
5. Memoirs of Babur : Erskin
6. Army of Indian Moghals : William Irvin
7. The Military System of Sikh : F.S.Bajwa
8. The Military System of Marathas : S.N.San
9. History of the British Army : Fortesque
10. Red Coat to Clive Green : V.Longer

Other prescribed reference works.

B. A./B. Sc.

WESTERN MILITARY HISTORY

The aim of this paper is to give a historical, political and social background of the States engaged in the conflicts under the study and to the factors influencing the development of different forms of the warfare and weapon systems.

Part-I Military System of Greeks and Roman with reference to

- (a) Important battles prescribed.
- (b) Emergence and decline of Cavalry:

Barbarians and the Battle of Adrianpole (378)
Mounted Archers and the Battle of Hastings (1066)
Cavalry Tactics of Zenghis Khan, the Revival of Infantry and the Battle of Carcy (1346). Introduction of cross bow, fortifications and siegecraft.

Part -II

- (c) Impact of Science & Technology on Warfare and Military reforms of Gustavus Adolphus and Fredrick the great.

- (d) The revolution in tactics :

War of American Independence (1776-1782) French Revolution and Napolionic art of Warfare as interpreted by Clausswitz and Jomin i.

- (e) Brief Coverage of the rise of professional armies and Navies with reference to Wars in 19th Century.

- (f) American Civil War 1861-65.

Military organisation and policy of the powers on the eve of the war.

- (g) World War I : Strategy Stalmate, restoration of mobility with reference to the battles of Yapers and Somme. Role of Airforce & Navy with reference to theories of Mohan & Dauhet.

Part III. Military Organisation and policy of the powers.

- (h) World War II (i) Allied & Axis objectives and strategy.

P.T.O.

Nature of Warfare

- ii) Armoured and Mechanised Warfare with reference to theories of Fuller and Liddell Hart as by Guderian & Rommel.
- iii) Role of Air power, Weapons, doctrine and Tactics with examples.
- vi) Naval weapons, doctrine and tactics with examples.
- v) Use of Atom Bomb and its impact.

Note : It is intended that in these studies, the main emphasis should be on strategic theories and of warfare in the 20th Century.

Selected Readings :

- | | |
|--------------------|--|
| 1. Montross, L. | : War Through the Ages. |
| 2. Harkabi, Y. | : Nuclear War and Nuclear Peace. |
| 3. Earl, E.M. | : Makers of Modern Strategy. |
| 4. Fuller, J.F.C. | : Conduct of War |
| 5. Bullock, H. | : Military History of the Western World Vol. I. |
| 6. Cyril Fall | : A Hundred Years of War. |
| 7. Montogemery, V. | :/ A History of Warfare. |
| 8. Fuller, J.F.C. | : The American Civil War 1861-65. |
| 9. Fuller, J.F.C. | : Machine Warfare. |
| 10. Fuller, J.F.C. | : Armaments and History. |
| 11. Fuller, J.F.C. | : Military History of the Western World Vol. II. |
| 12. Robin C. | : We all Fall Down |
| 13. Colder, Nigel | : Unless Peace comes. |
| 14. Icu Prakash | : Science of War. |
| 15. Emme, E.M. | : The Impact of Air Power. |
| 16. Brown, F.J. | : Chemical Warfare and Study in Restraints. |

P.T.O.

17. Mao Tse Tung : Guerilla Warfare.
 18. Fuller, J.F.C. : Decisive Battles of the Western World.
 19. Brodie, B. : From Arrow to Atom Bomb,
 20. Brodie, B. : Strategy in the Missile Age.
 21. Andra Beaufre : Deterrence and Strategy.
 22. Halperin, M.H. : Contemporary Strategy.
-

B.A./ B.SC.

NATIONAL SECURITY

The aim of this Paper is to acquaint the student with the basic concept of national security and factors relevant thereto.

Part - I

1. Definition and Concepts: National interest & National Security.
2. Elements of National Power : Concept, Role and Constituents viz. Geographic, Social, Political, Economics, Military, Manpower, Science & Technology.
3. Security problems of a State in the changing international environment since world War II : Power pattern and compulsions.
4. National Security Strategies : Balance of Power Collective Security Regional Defence Non-alignment movement Deterrence.

Part II

5. An evaluation of India's National Power.
6. India in the world strategic environment.
7. Threat Perception : External and Internal threats.

(a) Significance of Political, Economic and defence factors in Pakistan's & China's relations with India.

(b) Relations with other immediate neighbours.

(c) India's special position in Indian Ocean with reference to Indonesia and Iran.

8. India's Nuclear Policy and Development.
9. Indian National Strategy to meet security threats (External & Internal).

Selected Readings :

1. Morgenthau, H. J. : Politics Among Nations.

2. - Fleming D.F. : The Cold War and its studies.
 3. Kavic, L.J. : India's Quest for Security.
 4. Khera S.S. : India's Defence Problems.
 5. Shah, A.B. : India's Defence and Foreign Politics.
 6. Prashad, B. : India's foreign policy legacy.
 7. Subramanayam.K. : Our National Security.
 8. Lyons G.M. & Morten: Schools of Strategy.
 9. Kaul Ravi : India's Strategic Spectrum.
 10. Choudhry, J.N. : India's Security in the Seventies.
 11. Chawala Vijay : India and the super Powers.
 12. Lohar J.A. : The Dynamics of China's Foreign Relations.
 13. Power : Guide to National Defence.
 14. National Security : Industrial Armed Forces College
Management Series. U.S.A.
 15. Arthur T. Hadley : The National Safety and Arms.
 16. Alwin J.Cotrell : Political-Economic and Military
Importance of Indian Ocean.
 17. Poulse T.T. : Power rivalry in Indian
Ocean.
-

Problems of War and Peace

AIM : The objective of this paper is to acquaint the students about the multidimensional problems of war and peace.

Introduction :

1. World Order, ideologies - political, social and economic Recent trends.
2. Modern Warfare : Nuclear, Guerilla and Irregular limited and specialised warfare.

Aspects of War :

3. Political :

- a) War and Politics
- b) Balance of Power.
- c) Collective Security.
- d) Cold War.
- e) Disarmament & Arms Control.
- f) U.N.O.

4. Economic :

- a) War as an economic problem.
- b) Defence and development.
- c) Mobilization of resources.
- d) Economic warfare.
- e) Post war economy and reconstruction.

5. Legal :

- a) Settlement of disputes, Belligerent and their Forces, Enemy Character, Effects of the outbreak of War.

- (b) Nuclear Warfare and Laws of War.
- (c) Guerilla Warfare and Laws of War.
- (d) Legal controls of International Conflicts.
- (e) Modern Developments and Laws of Neutrality.

Selected Readings :

1. Maurice Clark, J. : Readings in the Economics of War.
 2. Charles, J. Hitch : The Economics of Defence in the Nuclear Age.
 3. Seymour E. Marris : Post War Economic Problems.
 4. International Security: Modern Political Science series.
 5. Rajani Kothari : World Order
 6. Morgenthau : Politics among Nations.
 7. Gerald. J. : Defence Psychology.
 8. Boring : Psychology in the Armed Services.
 9. Openhim, I. : Use of Force by States and International Law.
 10. Fokorovsky. Al. : Science and Technology in Contemporary war.
 11. Haskins Cary LP. : The Scientific Revolution and Contemporary War.
 12. Know Kalus : Science and Defence.
-

B.A./ B.Sc.

DEFENCE MECHANISM OF THE MODERN STATE

AIM : To enable students to appreciate the importance of higher political direction in the formulation of national defence policy and roles of political and military leadership in furthering national security.

1. Evolution of national scheme defence policy.
2. Interdependence of foreign defence and economic policies.
3. Higher defence organisation in U.S.A., U.S.S.R., U.K., CHINA, PAKISTAN, and Alliance System (e.g. NATO, Warsaw Pact etc.).
4. Higher defence organisation in India
 - a) Powers of President in relation to Armed Forces.
 - b) Parliament and the Armed Forces.
 - c) Defence (Political Affairs) Committee of the Cabinet. Its composition, methods of working during war and peace.
 - d) National Defence Council (and its variants).
 - e) Organisation of Ministry of Defence.
 - f) Chiefs of staff organisation, its relation to defence and individual services, organisation and equipment of individual services.
 - g) Joint Services/organisations.
 - h) Intelligence, Organisation and role of intelligence agencies, their problems.

Selected Readings:

1. E.H.E. Cohen ; Indian Army - A sketch of its History and organisations.
2. Venkateswaran ; Defence Organisation in India.
3. Nagendra Singh ; Defence Mechanism of the Modern State.
4. Ministry of Defence: Annual Reports.

B.A./B.Sc.

MODERN WARFARE

AIM : To enable students to appreciate the impact of Political, economic and technological developments on the pattern of conflicts between Nations.

Part -I

- a) Development of Nuclear weapons and their effect on war; Missiles and their characteristics.
- b) Theories of Deterrence : Capability, Credibility and Intention.

Part II

- 1) Scientific and Technological.
 - a) Trends in science and technology and their impact on contemporary military affairs.
 - b) Role of Research & Development space, oceanography atomic science, new materials, Electronics and automations.
 - c) Development of weapons and their impact on tactics Command and contrl..
2. Psychological
 - a) Relevance of Psychology in Defence Problems.
 - b) Psychological warfare- Propaganda, Rumour & Brainwashing.
 - c) Mental Health Problems.
 - d) Problems of Human Engineering.

Parte III

- a) Impact of Nuclear weapons on conventional warfare emergence of the concept of limited wars.
- b), Role and importance of Guerilla and irregular warfare in Nuclear Age, concepts of Guerilla, warfare as advanced by Marx Lenin, Mao Tse Tung & Che - Guevara.

- (a) Chemical and Biological warfare :
Historical developments, Concepts and trends.
- (d) Geophysical warfare : Historical developments
concepts and trends.

Note : Examples must be given from the relevant contemporary conflicts.

Selected Readings :

1. Halperin, Morton : Contemporary Military Strategy.
 2. Brodie, B. : Strategy in the Missile Age.
 3. Markabi, Y : Nuclear war & Nuclear Peace.
 4. Liddle Hart : Mao-Tse-Tung & Cheguevera on Guerilla warfare.
 5. Lucian Pye : Guerilla Communism in Malaya.
 6. Osenka. F.M. : Modern Guerilla warfare.
 7. Falit B.K. : War in the deterrent Age.
 8. Halperin Morton : Defence Psychology.
 9. Gerald. J. : Defence Psychology.
 10. Boring : Psychology in the Armed Services.
 11. Openheim, I. : Use of Force by States and International Law.
 12. Fokorovsky. Al al: Science and Technology in Contemporary war.
 13. Haskins Cary LFn : The scientific Revolution and World Politics.
 14. Know Kalus : Science and Defence.
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B.A./ B.SC.

Principles of war and organisation of Armed Forces

AIM : The aim of this Paper is to enable the students to grasp the essential principles of war and how ~~are~~ armed forces of our country are organised.

Part I

1. Organisation of Armed Forces between 1947-62.
2. Present Organisation of our Armed Forces.

Part - II

1. Principles of war.
2. Operations of war.
3. Role and Scope of Intelligence in war and in modern State generally.

Part III

1. Political List.
 1. Kashmir : Sisir Gupta.
 2. India China War : N. Maxwell
 3. Indo Pak War : Russel Brines.
 4. Lightening War : Maj. Gen. D.K. Palit.
 5. Defence Organisation in India : A.L. Venkateswaran
- Other prescribed reference works.

ITEM NO 10

Provision for defence studies at
Post-Graduate and research levels :

The UGC vide its letter No.F.1-59/78(CP) dated 3rd December, 1979, (Annexure - XI) while forwarding a set of syllabus has considered the recommendations of the Committee appointed to suggest model courses for defence studies at Post-Graduate and research levels and has agreed that the syllabus suggested by the Committee be brought to the notice of the universities for consideration and guidance.

The recommendations of the UGC have duly been accepted by the Ministry of Defence, Government of India vide letter No.F.11(7)/77/D(Coord) dated 21 June 1979. (Annexure - XII).

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

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J/C/1

University Grants Commission
Bahadurshah Z afar Marg
New Delhi - 110 002.

No. F.1-59/78(CP)

3 December, 1979.

To

The Registrar
North-Eastern Hill University
P.O. Lower Lachumiere
Shillong - 793001.

Sir,

I am directed to say that the University Grants Commission at its meeting held on 26th October, 1979 considered the recommendations of the Committee appointed to suggest model courses for defence studies at post-graduate and research levels. It was agreed that the syllabus suggested by the Committee may be brought to the notice of the universities for their guidance alongwith the suggestion received from the Ministry of Defence for association of defence personnel in the conduct of these courses.

Accordingly, I am enclosing a set of syllabus suggested by the Committee for defence studies at post-graduate and research levels alongwith a copy of the of the letter No.F.11(7)/77(D (Coord) dated 21st June, 1979 received from the Ministry of Defence for association of defence personnel in the conduct of these courses for guidance of the university.

Yours faithfully,

Sd/- C.M. Ramachandran
Under Secretary

Encl: a.a.

POSTGRADUATE COURSES

DEFENCE STUDIES

M.A./M.Sc.

THEORY AND PRACTICE OF WAR
(1975 to date)

Part-I

- A. Nature, characteristics and impact of American Revolution and French Revolution on Warfare.
- B. Napoleonic Warfare with reference to its interpreters Clausewitz and Jomini.
- C. Industrial Revolution and Transformation of War
- D. Economic foundation of Military Power
- E. Social Revolutionary thinkers on war
- F. Strategy, doctrine and weapon systems, Military Organisation and Politics of France & Germany during the World War I
- G. Appearance of armour - a landmark in the History
- H. Concept of Air Power
- I. Concept of Sea Power

Part-II

Constitutional and political problems of Military organisation and policy 1919-45

- J. Concept of Armoured and mechanised Warfare developed by JFC fuller, Liddel Hart, Guderian Rommel and others during the interwar years and second World War.
- K. Strategy, Doctrine and Tactics during the Second World War on Land, Sea and Air.
- L. Application of Air Power during the Second World War.
- M. Application of Naval Power during the First and Second World Wars with suitable examples.

Part-III

- N. Theories of Nuclear Strategy and deterrence.
- O. Strategic Concepts: Surprise, presumption and stability.
- P. Strategic Doctorines: Minimalist and Maximalist approach.
- Q. Emergence of the concept of:
 - 1. Limited War
 - 2. Insurgency and Counter - Insurgency
 - 3. Chemical and Biological Warfare
 - 4. Arms Control & Disarmament.

Selected Reading:

- | | |
|------------------------|------------------------------------|
| 1. Alfred Vogts | A History of Militarism |
| 2. Nels, A. Parson Jr. | Missiles and Revolution in Warfare |
| 3. Stephen King Hall | Defence of Nuclear Age. |
| 4. Michael Howard | Grand Strategy of World War II |
| 5. Earle E.M. | Makers of Modern Strategy |
| 6. Monotogomery | History of Warfare |
| 7. Tedder | Air Power in War |
| 8. Kahn Harman | On Thermonuclear War |
| 9. Otto-Hailburum | Partisan Warfare |
| 10. Falls Cyrill | Hundred Years of War |
| 11. Howard M. | Theory and Practice of War |
| 12. Brodie B. | Strategy in the Missile Age. |
| 13. Beaufre A. | Introduction to Strategy |
| 14. Emme | Air Power |
| 15. Mahan A.T. | Sea Power |
| 16. Halprin, M.H. | Contemporary Military Strategy |

Note:

Major conflicts during World War II took place between Germany and Russia. Studies should not therefore be to operations in the 'Western' Front.

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Core Paper II

M.A./M.Sc.

WAR IN INTERNATIONAL RELATIONS

- A. Foundations and limitations of National Power.
- B. The place of power, ideology and ethics in International Relations.
- C. Theories of the causes of War.
- D. The theory of balance of power, and Systems of Military Alliances.
- E. War and Foreign Policy, War and the threat of War as instrument of State policy.
- F. The role of national interest in the foundation of foreign policy.
- G. War and the International Political systems, War as an agent of change, a means of disputes settlement and an instrument of law enforcement.
- H. Attempts to abolish war and to subject it to limitation and control.
- I. The Birth of new nations and changes in the patterns of international relations.
- J. Cold War and its effects on World politics.
- K. Nuclear developments and their importance in International Relations.
- L. K Major determinants of foreign policies of the:
 - (i) United States of America (USA).
 - (ii) Union of Soviet Socialist Republic (USSR)
 - (iii) France
 - (iv) China
 - (v) India

Books Recommended:

- 1. Aron, N. : War and Peace
- 2. Wright, Q. : A Study of War

3. Frankal : International Relations
4. Knorr and Verba : The International System
5. Sprouitt and Sprouitt : International Politics
6. Gibss, G : Problem of International Relations
7. Frankal, J. : Making of the foreign policy
8. Northedge : Foreign Policy of the Powers.
9. Colowin R. : Reading in World Politics
10. Gupta, M.G. : International Relations Vol I and II
11. Ball of Max : Future of British Foreign Policy
12. Bernard L & Black : War and its causes
13. Thompson, B. : Foreign Policies of the World
14. Black C. : Neutralisation.
15. Bhuniya, N. : International Organisations.
16. Kar, S.H. : Between the two World Wars.
17. Morgenthau, J.J. : Politics Among Nations
18. Palmer & Perkins : International Relations
19. Dutt, V.P. : China's Foreign Policy
20. Brownlie, I. : International Law and the use of Force by States.
21. Bandopadhyay : Making of Indian Foreign Policy
22. Knepp, W. : A History of War and peace
23. J. Frankal : National Interest.

Core Paper-III

M.A./M.Sc.

National Security

1. Concept of National Security : National Interest and its relation
National Security
2. Security Problems of a State in changing international environment.
3. National Power : Its concept and constituents.
4. Alternative strategies of National Security:
 - a. Balance of Power
 - b. Collective Security
 - c. Regional Defence
 - d. Nonalign,ent
 - e. Arms Control and Disarmament
 - f. Cold War.
 - g. Economic strength and technological self-reliance.
5. National Security Problems (a) External and Internal of India
threats
(b) Long term threat assessment-
Evolution of appropriate
defence strategies & Plans
determination of optimum
force levels, long term
equipment planning joint
operational planning.

India in World strategic Environment

6. Impact of Political, Economic and Defence factors in Pakistan's relations with India.
7. India-China relations and its significance in our Security considerations.
8. India's relations with U.S.A. & USSR and their significance in India security perspectives.
9. India's relations with South-east Asia and West Asia with reference to their role in Indian Ocean area; impact of developments in the Indian Ocean Area on India's security.
10. India's relations with immediate neighbours.
11. India nuclear policy.
12. Analysis of India's Defence Preparedness, evaluating elements of National Power.

Role of Intelligence: Intelligence systems : organisation and control: Acquisition, analysis and dissemination of intelligence : counter intelligence : intelligence inputs for policy formulation and planning.

Selected Reading:

1. Lyons CM & Morten Lonis : Schools for Strategy
2. Arthur L. Hadley : The National Safety and Arms
3. Ravi Kaul : India's Strategic Spectrum
4. Subramanayam K. : Our National Security
5. Lohen J.A. : The Dynamics of China's Foreign Relations
6. Ray Aswani : Domestic Compulsions & Foreign Policy of Pakistan
7. D.R. Fleming : The Cold War and its studies
8. Kavie L.J. : India's Quest for Security
9. Harkabi, Y. : Nuclear War and Nuclear Peace
10. Morgenthau H. : Politics among Nations.
11. Bandopadhyay J. : Making of Indian Foreign Policy
12. Frankol J. : National Interest
13. Cotrell H.A. : Political, Economic & Military Importance of Indian Ocean
14. Poulouse T.T. : Power Rivalry in Indian Ocean.
15. Northedge F.S. : Foreign Policy of Powers.

Core Paper IV

M.A./M.Sc

DEFENCE ECONOMICS

AIM: To equip the student to critically analyse the economic problems of Defence and their Management.

1. I
 - a. Contemporary Economic Systems
 - b. Natural resources in Economics and War Management
 - c. Assessing economic and are potential of the developing and developed countries
 - d. Role of Technology, Research and Development
2. General Problem of Optimization:
 - a. Elementary game theory and Linear Programming
 - b. Cost Benefit Analysis.
 - c. Economic and defence Planning : Problems of Defence in relation to limitation of resources.
3. Defence Budgeting:
 - a. Simple National Income Analysis
 - b. Determinants of Defence Budget
 - c. Factors influencing Choice alternative weapon systems.
 - d. Cost effectiveness in selection of military expansion programmes.
 - e. Economics of Conventional Vs Nuclear Weapon systems.
 - f. Analysis of defence budget in India since 1947
4. Mobilisation of Resources for Defence
 - a. Domestic Resources
 - (i) Direct Methods

Increasing duration of working hours, additional employment curtailing vacation time, wages and income freeze, consumption and controls.
 - (ii) Fiscal and monetary methods:

Taxation and borrowing & deficit financing.

Contd.

- (iii) Economic implications of technical aspects of defence production in India.
- (b) Foreign Resources:
 - (i) Role of Private foreign capital
 - (ii) Role of Foreign capital through government institution
 - (iii) Problems of imported technology in defence production

5. Industry and Defence in India:

Defence production Organisation and role of Directorate General of Ordnance Factories and various Departmental Factories. The part played by Private sector and public sector. The role and range of foreign collaboration. The part played by Research and Development in Defence production. Self reliance in defence production.

6. War Time Mobilization:

- (a) Priority transfer of resources
- (b) Emergency in the nature of the above mentioned problems.
- (c) Techniques of control and rationing with reference to production, consumption and distribution.

7. Economic Warfare - Its techniques:

- (a) Scope and content of Economic Warfare
- (b) Denial of resources to the enemy.
- (c) Rules of foreign aid.

8. Effects of War:

- (a) Problems of an inflationary economy
- (b) The problem of Balance of Payments
- (c) The danger of exhaustion of economic resources and solutions.

9. Problems of Reconstruction:

- (a) Problems of reconstruction and rehabilitation.
- (b) Institutional, technological and Industrial development due to war.
- (c) Economics of military alliances.
- (d) Economics of disarmament.

BOOKS RECOMMENDED

- a) Indian Economy its nature and problems - by Ghosh, Alak
- b) The British War Economy - by Murphy
- c) Political Economy of War - by AC Pippu
- d) The Economic Warfare - by WN Medicott
- e) The Economic Problems in War and Peace - by LR Robinson
- f) Economics of Development - by Singh D. Bright
- g) Economics of Defence - by Hitch and Makaan
- h) The New Economics of National Defence - by J J Clark
- i) Decision making for Defence - by Hitch
- j) The Theory and Working of Union Fin. in India - by RN Bhargava
- k) Economics - by Samuelson, Paul
- l) Monetary Theory and Fiscal Policy - by Hansen
- m) Problems of Economic Development - by J.K. Mehta
- n) Problems of Capital formation in under-developed countries - by Nurkse, Ragnar
- o) Mobilising Resources for War - by Tarshish, Shaw
- p) Political Economy of War - by EW Hirst
- q) The Arms Trade with the Third World - by
- r) A guide to Keynes - by Hansen
- s) A Guide to Modern Economics - by J.K. Mehta and Mahesh Chand

Core Paper : V

M.A./M.Sc.

CONTEMPORARY PROBLEMS OF WAR

Any two of the following problems may be selected at the beginning of the session and the courses can be framed by respective Universities.

1. Concepts of Modern Querilla Warfare and its practice in South-east Asia and China.
 2. Arms control and Disarmament
 3. International Economic Order.
 4. Law of the seas & space
 5. Strategic Raw Materials and their exploitation.
 6. Theory and Practice of Diplomacy since Second World War.
 7. Role of Military in Politics
 8. Arms Aid, its economic, political and strategic implications.
 9. Rise of Nationalism since 1945.
 10. Military doctrines of USA, USSR and China.
-

MILITARY HISTORY OF INDIA

(Upto 1857)

1. Military system in Vedic, Puranic and Epic Age
2. Alexander's invasion of India with special reference to Battle of Hydaspes. Contemporary Greek accounts on Indian Warfare.
3. (a) Kautilya's Philosophy of war - State craft, Military Organisation, wagons, Patterns of Warfare.
(b) Political and Military systems Chola, Chera, Pallava and Pandya Kings
4. Political and Military systems of Chandragupta Maurya with special reference to Megasthenes's accounts, Subsequent events leading to the overthrow of the Mauryas.
5. Impact of Shung, Kushana and Huns on Warfare.
6. Changes in Hindu Military system and Art of Warfare during the age of Guptas and Harshavardhana.
7. Arab and Turk Invasions of India and new trends in Warfare, Rajput Military system and Art of Warfare with special reference to the battles of Somnath and Terrain.
8. Military reforms and patterns of Warfare during the Sultanate period.
9. Babar's invasion of India with special reference to the battles of Panipat and Kanawa. New trends in Mughal art of Warfare during the reign of Akbar and subsequent period. Causes of the failure of Mughal Military System.
10. Maratha Military system, land and naval warfare during the reign of Shivaji. Changes in Maratha Pattern of Warfare during 18th Century with special reference of the Battle of Panipat, 1761 A.D. Impact of Western ideas on Maratha tactics.
11. Military system and pattern of War under Haider Ali and Tipu Sultan with special reference to Third Mysore War (1790-92 AD).
12. Military Organisation and pattern of warfare of Khalsa army. Impact of the Western art of Warfare and subsequent developments in the Sikh army. Anglo-Sikh warfare with reference to the battle of Sobraon. 1846 A.D.

13. Development of the Presidency armies under the East India Co.
14. Critical Analysis of the impact of Western art of Warfare on Indian Polity.

Selected Readings:

1. S.D. Singh : Ancient Indian Warfare with special Reference to the Vedic Period.
2. Professor R.C. Dikshitar : War in Ancient India
3. L. Bashan : The Wonder that was India
4. J.F.C. Fuller : The Generalship of Alexander, the Great.
5. R.C. Majumdar : Classical Accounts of India
6. Pharki Vidya Bhawan Publication : The age of Imperial Unity
7. K.A. Nilakanta Shastri: Age of the Nandas and Mauryas.
8. U.N. Ghoshal : A History of Indian Public Life.
9. K.A. Nila kantaSastri: A comprehensive History of India Vol.II.
10. R.C. Majumdar : The classical Age.
11. K.P. Kangley : Kautilya Arthasastra
12. James Ted : Annals and Antiquities of Rajasthan VOL.I
13. Habib : Comprehensive History of India
14. R.P. Tripathi : Some aspect of Muslim Administration.
15. Haig and Burn : The Cambridge History of India Vol.IV
16. Dr. Ishwari Pd. : The Moghal Empire
17. J.N. Sarkar : History of Aurangzeb Vol.I to IV
18. T. Irvine : Army of the Indian Moghals.
19. S.N. Sen : Military System of Marathas
20. H.R. Gupta : Marathas and Panipat

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|-----------------------|---------------------------------|
| 21. Grant Duff | : A History of Marathas |
| 22. V. Longor | : Red coats to olive green |
| 23. G.B. Malleson | : The Decisive Battles of India |
| 24. Fauja Singh Bajwa | : Military System of the Sikhs |
| 25. S. Chattopadhyay | : A History of Indian History |

Paper-VII

M.A./M.Sc.
INTERNATIONAL LAW

A. Introduction

1. International Law : Definition and Nature
2. Sources and historical development of International Law.
3. Modification of International Law.
4. State - Succession
5. Intervention
6. Right of Self-defence
7. State - Territory
8. Sea Piracy and Air Piracy.
9. Maritime Laws and conventions; conventions relating to Air space.
10. Jurisdiction including territorial waters, economic zones : special problems re: Straits, archipelagos etc.
11. Nationality.
12. Extradition and Asylum
13. Diplomatic and Consular Immunities
14. Treaties
15. Delinquencies and State Responsibility.
16. International Institutions with particular reference to the League of Nations and the United Nations Organisation.
17. Collective Security and Disarmament.

C. Laws of War

- (a) Settlement of disputes.
- (b) War in General, Characteristics of War. The Laws of War. The Belligerents. The Armed Forces of the Belligerents. Enemy Character. Effect of out-break of war.
- (c) Warfare in land. Violence against enemy persons. Treatment of wounded, the sick and the dead. Capacity. Appropriation and use of enemy public & private property.

Destruction of enemy property. Assault, siege and bombardment Espionage. Ruses. Occupation of enemy territory.

- (d) War at sea: Man of War, Attack and Seizure of enemy vessels Appropriation and destruction of Enemy Merchant Man. Prize Court. Treatment of the wounded and ship wrecked.
- (e) Air Warfare: Military Air Craft. Rules of Air warfare in relation to rules of war on land and at sea. Liability of civil aircraft to capture.
- (f) Nuclear warfare and the law of war.
- (g) Non-hostile relations of belligerents. Trucos, capitulation and surrender. Armistice.
- (h) Means of securing legitimate warfare: Appraisal, Punishment of war crimes. Hostages.
- (i) Legal controls of international conflict. Attempt to prohibit war (from pact of Paris to the charter of the United Nations).
- (j) War crimes trials.

D. Neutrality

- (a) Relations between Belligerents and Neutrals. Rights & duties of Neutrals, War like preparations and operations. Neutral asylum. Violation of Neutrality.
- (b) Blockade; Conception, Establishment, Branch and penalties for breach. The long distance blockade.
- (c) Contraband: Conception, Absolute and conditional contraband. Direct, circuitous and Indirect carriage. Penalties.
- (d) Un-neutral service: Carriage of persons. Transmission of intelligence. Other forms. Penalties.
- (e) Visitation, capture and trial of neutral vessels, right of visitations and search. Conveys. Navicerts, Trial of captured neutral vessels.
- (f) Modern developments and the law of Neutrality.

Books Recommended:

1. Oppenheim : International Law Vol. 1 and 2.
2. Starke, J.G. : An Introduction to International Law
3. Hyde, J.N. : International Law
4. Stone, Julius : Legal controls of International Conflicts.
5. Sorenson, Max. : Manual of Public International Law.
6. O' Connel : International Law.
7. Croig, D.W. : International Law.
8. Rhyne, C.R. : International Law.
9. Kalson, H. : Principles of International Law.
10. Ferwick C.G. : Internation Law
11. Castron : Modern International Law of War.
12. Wright, Q. : Study of War Vols. I and II.
13. Crab : The relativity of War and Peace.
14. Brownlio, I : Principles of Public International Law.
15. Kotzch : The concept of War in contemporary History and International Law.
16. Brienly, J.L. : The Law of Nations.
17. Svarlien, O. : An introduction to the Law of Nations
18. Brownlie, I : Use of force by States and International Law.
19. Mann, F.A. : Studies in International Law.
20. Mc Nair : The Law of Treaties
21. Visscher, C.D. : Theory and Reality in Public International Law.
22. Jonks, C.W. : The Common Law of Mankind.
23. Goodspeed, S.S. : The Nature and Function of International Organisation
24. Anand, R.P. : Asian States and the Development of Universal International Law.
25. Corbett, P.P. : The Growth of World Law.

Paper-VIII

M.A./M.Sc

Area Studies

Any two of the following areas may be selected by the respective universities.

1. United States of America (USA)
2. Union of Soviet Socialist Republic (USSR)
3. CHINA
4. JAPAN
5. SOUTH ASIA
6. SOUTH EAST ASIA
7. WEST ASIA
8. INDIAN OVEAN

M.A./M.Sc.Psychology and the Armed ForcesI. Psychology and Armed Forces

- (a) Dimensions of behaviour, motivational, affective and cognitive process. Relevance of Psychology in Defence problems.
- (b) Personnel selection and classification for defence services use of intelligence tests-Group testing procedures and elementary personality testing.
- (c) Application of principles of Psychology in military training motivation, learning, transfer of training. Group and individual training.
- (d) Factors in adjustment during army life-defence escape and psychological and mechanisms.
- (e) Problems of re-adjustment of the ex-soldiers.

II. Ergonomics:

- (a) Introduction to human engineering.
- (b) Man Machine systems.
- (c) Information displays; instrument dial legibility of numbers.
- (d) Control Devices - Functions identification, resistance in control devices - forces and rations.
- (e) Problems of display and control.
- (f) Man in motion - concept of stress and effect of vibration, noise and acceleration.
- (g) Communications - aids/tools - techniques, intra-group, lateral and vertical communications, transactional analysis, sensitivity training and responses.

III. (Group Dynamics in Military Life:

- (a) Group : Structure, types and their functions. Formation of social norms. Group problem solving.
- (b) Leadership : Nature of Leadership, Function of Leader, Emergence. Types of leadership. Leadership training.
- (c) Morale : Nature, determinates and techniques of boosting morale its significance in defence.

- (d) Attitude : Attitude organisations, Impact of Military life on the formation of attitudes, attitudes change.

IV. Psychological Warfare:

- (a) Nature, type, organisation and techniques of Military proposals.
- (b) Structure, Theories and techniques of coercive persuasion Determinant of brain washing, effects.
- (c) Psychology of rumour - Nature, techniques and its merits and its demerits, impact on war and society.

V. Mental disorders of Warfare.

- (a) Mental health and soldier in war.
- (b) Psychological disorders and emotional strains imposed by war - conversion Hysteria, Anxiety and war neurosis.
- (c) Predisposing conditions and methods of treatment.
- (d) Impact of nuclear and biological warfare.
- (e) Psychological problems of space flight.

Books Recommended :

- | | |
|------------------------|--|
| 1. Borning, E.G. | : Psychology for the Armed Services |
| 2. Lienbarger | : Psychological Warfare. |
| 3. Mac Cormick | : Human Factor Engineering |
| 4. Bartlett, F.C. | : Psychology and the Soldier. |
| 5. Hennings | : Air War and Emotional Stress |
| 6. Mann, J. | : Frontiers of Psychology |
| 7. Lifton, R. J. | : Thought Reform and Psychology of Totalism. |
| 8. Schein, E.H. | : Coersive Persuasion |
| 9. Brown, J. .C. | : Techniques of Persuasion. |
| 10. Second and Backman | : Social Psychology |
| 11. ICSSR Publication | : A survey of Research in Psychology |
| 12. Grinker, R.R. | : Men under stress. |

Paper X

M.A./ M.Sc.

DISSERTATION

1. In M. A./M.Sc. Final class in Defence Studies, in; lieu of one of the optional papers, a student may if permitted by the Head of the Department, undertake writing of dissertation under the supervision of a member of the Department. Two copies of the dissertation typed according to the required specifications shall be submitted by the students at least a week before the commencement of the M.A./M.Sc. Final Examinations.

2. The evaluation of the dissertation shall be done independently by the external and an internal examiner. The average of the marks given by both the examiners shall be the marks for the thesis submitted. The pass marks shall be the same as in theory papers.

ARMED FORCES & SOCIETY

1. Social institutions and their organisation and the armed forces. Social base of military power. Social background of defence personnel. Social changes and change in the character and composition of the armed forces.
2. The military organisation, Hierarchy, co-ordination, discipline, motivation and morale in the armed forces.
3. The military elite-its status and role in different countries. Their political and other non-military roles. Analysis of military coups. Officers and other ranks - reaction in different social set up.
4. Sociology of war, limited and total wars. Social causes of war social mobilisation forwar. Adjustment and emotional problems during war. Social aspects of victory, defeat and occupation.
5. Post-war social problems, Problems of large scale disbandment of personnel. Their rehabilitation and social adjustment of servicemen relieved after war.
6. Effects of war on national and international social, economic and political structures.
7. Ex-service personnel and their problems during peace.
8. Military - civil relationship. The soldier and society and the soldier and the political system. The soldier and the political system. The soldier and the productive system. Defence system in a democratic stage. Defence system under non-democratic governments. Image of the soldier and ex-service men in different societies.
9. Social change and changes in defence personnel and their requirements. Changing structure, composition, orientation and role of defence personnel in modern society.
10. Role of armed forces as agencies of social change, modernisation and economic development.

Selected Readings:

1. Sociology

Macmillan Co., New York

: By Bogardus.

Contd/...

2. Race, Class and Military : by Grille
3. The Role of Military in under-developed countries : by Johnson John of (ed).
4. Social Origins of Dictorship and Democracy. : by Ba-rrington Moore.
5. On the uses of Military Power in the Nuclear Age. : by Klaus Knoor
6. Defence & Development : by Subramanian
7. The Unconscious Motives of War : by Alix Strachey
8. Military Organisation & Society : by Stainslaw Androze Jewski.
9. Men in Uniform: Military manpower in Modern Industrial Society. : by Michael Fort R.D.
10. Military Institutions and Power in the New S-tates. : by William I Gutteridge
11. Sociology and the Military Establishment. : by Morris Janowitz
12. The New Military Changing Pattern : by Morris Janowitz (ed)
13. The Professional Soldier A Social and Political Portrait. : by Morris Janowitz
14. The Soviet Military and the Communist Party. : by Roman Kalkowics
15. Perspectives in Defence Planning : by K. Subramanyam
16. Politics, Economics & Welfare : by RA Dahl & GE Lindhlon
17. The Soldier and Social Change Comparative Studies in the History and Sociology of the Military Science. : by Van Doorn
18. The Social Psychology of Military Science : by Goldman
19. Military Institutions and the Sociology of War. : by Lang
20. The Power Elite : by CW Mills
21. Elites & Society : by TB Bottommore

M.A./M.S c.

INTERNATIONAL ORGANISATION-S

- I. The Development of International Organisation:
 - (a) Introduction - objectives, structure, function and setting for international organisation.
 - (b) The League of Nations -Origin, structure and brief review of its functions.
 - (c) The establishment of the United Nations - Planning and interim arrangements.

- II. The United Nations System:
 - (a) The organisational frame work of the U.N.O. - Legal character principles, objectives, membership and principle organs.
 - (b) Constitutional problems and Developments - Membership representation, voting, domestic.

- III. Political, Legal and Administrative Problems:
 - (a) The adjustment and settlement of disputes and political questions.
 - (b) Collective measures, enforcement action and Preventive diplomacy.
 - (c) The Regulations of Armaments.
 - (d) The Rule of Law - International Court of Justice, Permanent Court of International Arbitration and International Law Commission.
 - (e) Civil Servants of the World - Secretary General UNO Secretariat and International Secretariats.

- IV. Welfare and Trusteeship
 - (a) Economic and Social organisation of UNO - objectives and structure of economic and social co-operation.
 - (b) The specialised Agencies, General Nature of the following WHO, ILO, FAO, UNESCO, ICEO, IFC, IDA UPO, WMO, IMCO, and IAEA.

Contd/...

- (c) Economics, Social and Cultural Co-operation.
- (d) The trusteeship system and Non-self governing territories.

V. Recent Trends

- (a) Regionalism - Arguments Pro and Con, Regionalism under the Charter, the organisation of American States, Central American common market, Organisation of Petroleum exporting countries, OAU, EEC.
- (b) Reflections on the future.

Selected Readings:

- | | | | |
|-----|------------------|---|--|
| 1. | F.H. | : | Power and the Pursuit of Peace. |
| 2. | Duchacek, I.D. | : | Nations and Men. |
| 3. | Kalsen, H. | : | The Law of United Nations. |
| 4. | Gupta, D.C. | : | The League of Nations. |
| 5. | Saxena, K.P. | : | The United Nations and collective security. |
| 6. | Goodspeed, S.S. | : | The Nature and function of International Organisation. |
| 7. | Alker, H.R. | : | World politics in the General Ass-embly. |
| 8. | Brownile, I. | : | International Law and the use of force by states. |
| 9. | Lawson, R.C. | : | International Regional Organisation. |
| 10. | Bloomfield, L.P. | : | The United Nations at Twenty \$ after. |
| 11. | Bogardus, E. | : | Toward a world community. |
| 12. | Macmillan, H. | : | Winds of change. |
| 13. | Andrew B | : | Fifteen men on a po.keg. |
| 14. | Hasluk, P. | : | Workshops of security. |
| 15. | Telow, E. | : | The United Nations. |

GEOPOLITICAL STUDIES

1. Evolution of Geopolitical thought: Since 19th century.
Its objectives and scope and conjectures:
 - (a) National power and resources.
 - (b) Analysis of the areas of operations.
 - (c) Environmental engineering.

2. Military Strategy:
 - (a) The Planning Process.
 - (b) Principles of the Strategic Geography.
 - (c) Geography of Land, Sea and Air Warfare
 - (i) Frontiers and boundaries.
 - (ii) Buffer zones.
 - (iii) Maritime boundaries, concept of territorial sea Economic Zones etc.
 - (iv) Strategic relief, offshore islands.
 - (v) Land locked states and the problems of access to seas. Emphasis on the area and heart of the state.

3. Military Tactics:
 - (a) General principles of Military Geography.
 - (b) Weather and conditions of the Sea. Natural Landscape and geographical features of countries and regions.

4. Logistics: Resources, Problems of Supply, Transportation Mobility and Accessibility.

5. A case study of India with reference to:
 - (i) The probability notion conflict situation
 - (ii) Time factor (iii) Accessibility (iv) Mobility
 - (v) Visibility (vi) Matrix of conflict (vii) Conflict of interest (viii) Balance of Power (ix) Scale of warfare.

Selected Readings:

1. E.M. Earle : Makers of Modern Strategy.

Contd/...

2. Harm Jdi Blij : Systematic Political Geography
3. K.M.Pannikar : Geographical factors in Indian History
4. J.R.Prescot : Makers of M
5. J.R.Presscot : Political Geography
6. Charles A.Fisher : Essays in Political Geography
7. Mackinder A. : Democratic ideáls and Reality (1942).

8. Machinder H. J. : The geographical pivot of history (Geographical Journal Vol. XXIII 1904).

9. B.Sukhwar : Political Geogra-phy
10. James Fa griuwe : Geography and world power.

M.A./M.Sc.

Paper XIV

Course Title

SCIENCE, TECHNOLOGY AND NATIONAL SECURITY

A. Science and Society:

1. Science, Technology and society in different historical contexts.
2. Technological breakthroughs and societal changes.

B. Technology and Interdependence

1. Structure of International interdependence and Transfer of technology.
2. Technology and its effects on Weapon systems, strategy, industry and national economy.
3. Basic Technology e.g Heavy Engineering; Chemicals and Materials.
4. a) Nuclear technology
b) Aero-space"
c) Communications"
d) Automation and Miniaturisation"
e) Marine technology
5. Pollution and depletion of resources
6. Energy resources and their development; effect on strategy; tactics;

C. Indian Policy and Problems of National Security

1. Resource base.
 2. Science, technology and Industrial growth
 3. Defence and development and role of defence research and production.
 4. Need for an integrated science policy
-

STRATEGIES OF PEACE AND WAR

A. War and Society

1. a. War as an instrument of social change
b. War as continuation of policy by other means.
2. Changing nature of war; from limited to total war.
3. a. Rise of militarism
b. Evolution of Strategic thought
c. Mechanisation of warfare.

B. Disarmament Diplomacy: from the Hague to Geneva

C. Down of Atomic Age

1. International Control of Atomic Energy.
2. Advent of nuclear weapons
3. Nuclear Strategy
4. Problems of proliferation of nuclear weapons
5. Arms race and Strategic Arms Limitation talks
6. Impact of military technology on international politics.

D. Protracted Conflicts

1. Wars of national liberation and local conflicts.
2. Strategy of the Revolutionary: Mao-Tse-tung. Che Guevers; Giap, Nussution etc.

E. Perspectives on War and Peace in Future

1. Chemical, Biological and environmental warfare.
2. Defence, development and the third world.
3. Peace research and other approaches to conflict resolution.
4. Faces in Terroris: Manseternal quest for peace

No.F.11(7)/77/D(coord)
Government of India
Ministry of Defence
New Delhi - 11,

Dated the 21st June, 1979.

To

The Chairman,
University Grants Commission,
Bahadurshah Zafar Marg,
New Delhi - 110 002.

Sub:- Studies in Military Science in various Universities.

.. . . .

Sir,

I am directed to refer to D.O. letter No.F.1-59/78(CP) dated the 31st July, 1978 from Shri Y.D.Sharma, Deputy Secretary, UGC forwarding a copy of the draft proceedings of the meeting of the Commission held on 10th July, 1978 to advise the UGC on providing facilities for Defence Studies at Post-graduate and Research levels, and to say that the following recommendations of the UGC have been accepted by this Ministry :-

- (a) To associate serving or retired Service officers with the Boards of Studies of universities in Defence Studies and to make available the services of serving officers to the universities for this purpose.
- (b) to depute senior officers to serve as Visiting Professors/Fellows in the Schools or D-departments of D-efence Studies in various universities.
- (c) to make available the advice and guidance of senior service officers in various research studies leading to Ph.D. Degrees.

Yours faithfully,

(K.N. Singh)
Dy. Secretary to the Govt.of India

- - -

ITEM NO. 11

To consider a panel of examiners for
M.A./M.Sc. (1980-81-82) for the
D-eartment of Geography :

The list of names of examiners will be tabled for
consideration of the Council.

ITEM NO. 12

To consider a panel of experts for the selection of teachers in the Department of Geography:

It is proposed to review the panel of experts for the Selection Committee of the Department of Geography. Therefore, a fresh panel is placed before the Council for consideration.

The panel is being tabled by the Chairman.

- - -

JL/C/1

ITEM NO. 13

To consider the panel of examiners approved by the Board of Post-Graduate Studies to examine the M.Phil thesis submitted by Shri L.S.Gassah of Sociology & Anthropology Department :

Subject to ratification by the Academic Council, the Vice-Chancellor has approved the panels of examiners, approved by the Board of Post-Graduate Studies to examine the M.Phil thesis submitted by Shri L.S.Gassah of Sociology & Anthropology Department.

The Academic Council may, therefore, kindly ratify the action taken by the Vice-Chancellor and recommended the same to the Executive Council meeting.

J/C/1/

ITEM NO. 14

Amendment of Ordinances 1 & 2 of the
NEHU Academic Ordinances 1976 :

The Academic Council at its meeting held on 16th December, 1978 had resolved besides other things to open Post-Graduate Courses in Economics in both Kohima and Aizawl Campuses, but due to poor response from the students in Nagaland, the Department of Economics which was scheduled to start functioning right from the academic session 1979-80 had to be abandoned. However, many reports were received from both the public and the Government for the opening of a Post-Graduate Department in Commerce. The Government of Nagaland has agreed to provide the required accommodation, etc., for the purpose. The UGC was informed vide this University No. CDC/C-12-560 dated 29th July, 1980 (Annexure - XIII) that the University would like to start the Post-Graduate Department of Commerce with effect from 1980-81 academic session in place of the Post-Graduate Department of Economics. To implement this decision of the University, it is necessary to create a School and its Departments. This may be done by amending the Academic Ordinances 1 & 2. In the Ordinance - 1, "On the establishment of School of Studies", besides the eight Schools already envisaged, the School of Commerce may be added as School No. 9. Again, in Ordinance 2, "On assignment of Departments to the Schools", the Department of Commerce and the Department of Business Management may be assigned in the School of Commerce by adding in Ordinance 2.2 after the School of Education.

Further, it may also be pointed out that since the Post-Graduate Course in Education has been started in the Campuses at Nagaland and Mizoram, the assignment of Education Department in the School of Education need be incorporated in the Ordinance.

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

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

No. CDC/C-12-560
July 29, 1980.

The Secretary
University Grants Commission
Bahadurshah Zafar Marg
New Delhi - 110 002

Subject:- Requirement of additional staff in Nagaland
and Mizoram Campus.

Reference: UGC sanction order No.F.7-25/78(D.5a)/4275, dt.
6.7.79 and No.F.7-6/78(D.5a) dt. 19.4.79.

Sir,

As you know the Commission sanctioned the following
staff for opening the Department of Education, Economics and
English in the Mizoram and Nagaland Campuses:

1. Reader - 1) for each of the Department in
2. Lecturer- 2) each Campus

The Post-Graduate Departments of Education, Economics
and English started functioning in Mizoram Campus w.e.f. 1979-80
academic session. In the Nagaland Campus, the Post-Graduate
Department of English and Education started functioning w.e.f.
1979-80 academic session and in place of Economics, M.Com. will
start from 1980-81 session. The first year end semester
examination in both the campuses are being completed and new
admissions to the first year M.A. class is also being finalised.
As such, there will be an increase in the number of students
and also increase in the work-load of teachers the present
number of teachers are absolutely insufficient to run the full
fledged Post-Graduate Departments in both the campuses.

Since these Departments have been opened in Aizawl
and Kohima and as accommodation problem in Shillong is very
acute there is a good demand for admission to the Post-
Graduate courses offered in both the Campuses. To meet the
educational need of both the campuses the Commission is
requested to sanction the following additional posts for both
the campuses so that the teaching could be made effective
and the Departments continue to work satisfactorily:

NAGALAND CAMPUS

Department of Education

Professor - 1
Reader - 1
Lecturer - 3

Contd/...?..

Department of English

Professor - 1
Reader - 1
Lecturer - 3

Department of Commerce

Professor - 1
Reader - 1
Lecturer - 3

MIZORAM CAMPUS

Department of English

Professor - 1
Reader - 1
Lecturer - 3

Department of Education

Professor - 1
Reader - 1
Lecturer - 3

Department of Economics

Professor - 1
Reader - 1
Lecturer - 3

In the interest of the Post-Graduate education in Mizoram and Nagaland campuses, the Commission is requested to expedite sanction of the additional posts. It is hoped that it would be possible for the Commission to consider the proposal sympathetically.

Yours faithfully,

Sd/- S. C. Banwar
Pro-Vice-Chancellor

ITEM NO. 15

To consider amendment of Ordinances on :-

- (a) Committee for Advanced Studies and Research.
- (b) Board of Post-Graduate Studies in the Department :

The University has a number of students who have been registered for M.Phil/Ph.D. courses under the Supervisors appointed by the Committee for Advanced Studies & Research on the recommendation of the Board of Post-Graduate Studies in the Department. The two relevant Ordinances are stated below:-

1. Board of Post-Graduate Studies -

Clause 9.4(e) "To recommend to the Committee for Advanced Studies & Research the names of teachers in the Department to be appointed as Supervisors of research."

2. The Committee for A-advanced Studies & Research

Clause 8.5(b) "To appoint Supervisors or Advisors for Ph.D. students on the recommendation of the Board of Post-Graduate Studies of the Department."

The Ordinances are operative at present. However, in view of the fact that a number of Supervisors/Advisors who have been appointed by the Committee for Advanced Studies & Research have left this University, the candidates who were registered under these teachers are finding it extremely difficult to continue with their work. Moreover, the specialisation of the teachers concerned also stands as a bar for ending other teachers in the Department to continue guidance of the candidates registered under the teachers who have since left.

The Vice-Chancellor had discussed this problem in a meeting of the Heads of Departments and it was agreed that if a candidate is registered with a Supervisor for a year or more the Supervisor may continue to guide till completion of the work notwithstanding the fact that the Supervisor has joined another University after the said period of one year.

Contd/...

It is, therefore, proposed for consideration of the Academic Council that the above noted two Clauses of the Ordinances on the Board of Post-Graduate Studies and Committee for Advanced Studies & Research may be amended in so far as to add a proviso under each of them as follows :-

(a) Board of Post-Graduate Studies -

"Provided that if a teacher recommended for appointment as Supervisor of any candidate, leaves the University after one year of his preliminary registration he may be allowed to supervise the research of the candidate until completion of the work."

(b) Committee for Advanced Studies & Research -

"Provided that if a Supervisor/Advisor appointed by the Committee for Advanced Studies to supervise the work of a Ph.D. candidate leaves the University after one year of the registration of the candidate he may be allowed to continue to supervise the work of the candidate until the work is completed."

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J/C/1/

ITEM NO. 16

Amendment of Ordinance 10(7) relating to
Master Degree Programme in Arts, Science
and Commerce :

The existing Ordinance mentioned above, reads as follows:

"A student who does not clear a course or courses (owing to failure to pass, or to appear in the sessional work and semester examination), may clear them subsequently in any of the remaining semesters of the six semesters during which he is permitted to participate in the curricular programme for the degree".

It has been observed that the system of allowing a student to re-appear in any semester examination which he could not clear differs from Department to Department. For instance a student who could not clear the 1st semester examination, in one Department is allowed to re-appear along with the 2nd or the 3rd semester, whereas in another Department he is allowed to re-appear only when the 1st semester examination is again in progress.

As such, to obtain uniformity in all the Departments it is considered necessary to add a proviso to the existing Clause 7 of Ordinance 10 by replacing a coma in place of fullstop at the end, as under :-

"10.7. A student who does not clear a course or courses (owing to failure to pass, or to appear in the sessional work and semester examination, may clear them subsequently, in any of the remaining semesters of the six semesters during which he is permitted to participate in the curricular programme for the degree, provided that a student re-appearing in any semester examination can only do so when the semester is in progress again i.e., if one wants to re-appear in 1st semester examination he can do so only during the next first semester."

The proposed amendment is, therefore, placed before the Council for its consideration.

ITEM NO. 17

To consider the work load of the
College Teachers :

A Committee comprising of Prof. A.G.George and
Shri B.B.Kumar was constituted to go into the matter and to
submit a report vide Academic Council resolution No. AC:7:79:11.

With the resignation of Prof. A.G.George from the
membership, Dr I.U.Ahmed was nominated in his place to go
into the work load of College Teachers vide resolution
No. AC:8:80:12.

The recommendations of the Committee which is at
Annexure - is placed before the Academic Council for
consideration.

Minutes of the meetings of the Committee appointed by the Academic Council, NEHU to consider the work load of college teachers.

Meetings of the committee appointed by the Academic Council NEHU, vide its resolution No.AC:8:80:12 dated 15.3.80 were held on 20.5.80 and 5.6.80 in the S-cience College, campus, Kohima to consider the work-load of college teachers. Both the members were present.

On examining the existing work load of the teachers in different affiliated colleges, it was observed that -

a) the work load of teachers varies unreasonably from one college to another, e.g., the average work load per week in Aizawl college is 12 periods, while that in Mt. Tiwi college it is 19 periods;

b) the work load in the same subject also varies from one college to another, e.g., in Lungleh college the average work load per week for English subject was found to be only 8 periods, while the same in Synod college was 22 periods (kindly see Annexure - I).

The committee after careful examination of various facts felt that the University may formulate clear guidelines for college authorities in the matter of bringing uniformity in work load of the college teachers.

The committee recommends that maximum work load of a college teacher should not exceed 18 (eighteen) periods per week. While recommending this it was kept in mind that under the present norms a teacher apart from his dedication to teaching is also required to participate in development of courses, innovative programmes and also to contribute to advancement of knowledge in his field of specialisation. Moreover, the recommended work load is by far more than the existing work load in majority of the colleges. It was also felt that an HONOURS periods should be treated equivalent to 1/2 pass periods for counting the total work load.

Contd/...

The Committee also considered the suggestions from Dr Y.S.T.Rao in his letter No.F.3-4/Phys/Colleges/79/2766 dated 3.9.79 addressed to the Vice-Chancellor, NEHU, and felt that there should be no variation in the number of working days in the colleges under the University. The Academic Council may consider, decide and stress on the number of working days in affiliated colleges after examining the present pattern followed by various colleges. It may be useful to refer to similar provisions in other Universities in this regard.

S d/- Dr I.U.Ahmed

Sd/- B.B.Kumar

- - -

Annexure - I

Existing average work load of college
teachers in affiliated colleges under
NEHU

Sl.No.	Name of College	No. of teachers	No. of periods	Av. work load per week.
1.	Aizawl College	28	313	11'17
2.	Serchip College	7	104	14'85
3.	Champai College	11	133	12'09
4.	Sankardev College	31	519	16'74
5.	Mendipathar College	N.A.	N.A.	17'4 (20 for Eng. 17 for 7 dept.)
6.	Lunglei College	21	253	12'04
7.	Mt. Tiyi College	8	151	18'87
8.	Patkai Christian College	13	176	13'53
9.	Synod College	16	214	13'37
10.	Science College	42	687	16'35
11.	St. Edmund's College	50	688	13'76

Item No. 18

To nominate one person to be the member
of the Selection Committee for appointment
of Principal, Pachhunga University College :

The post of Principal, Pachhunga University College, Aizawl, Mizoram, fell vacant following the appointment of Shri Saingenga as Director of College Development in the University. He was appointed with effect from 11th October, 1989 as Director.

The University has since advertised the post of Principal and is to constitute a Selection Committee in terms of the provisions under Statute 20(2) which lays down that the Selection Committee shall consist of, besides the Vice-Chancellor and nominee of the Visitor, "three persons not in the service of the University of whom two shall be nominated by the Executive Council and one by the Academic Council for the special knowledge of or interest in the subject in which instruction is being provided by the College or Institution".

The Academic Council may be pleased to nominate one person or a panel of three persons from which one may be selected by the Vice-Chancellor, according to availability of the person.

ITEM NO. 19

Institution of Diploma Course in
Engineering :

The Secretary, Education, Meghalaya in referring to his discussion with the Vice-Chancellor in the Chamber of Minister of Education and in presence of the Minister of Law, etc., in his letter No. EDN.307/80/4 dated 31st July, 1980 (Annexure - XV) stated as follows :-

1. The problem of technical education in the State of Meghalaya, Nagaland needs a review. Both these States have only a Polytechnic and no Engineering Colleges;
2. These Polytechnics are affiliated to the Board of Technical Education, Assam;
3. Due to dislocation of normal life in Assam, the examinations and other academic matters related to the Polytechnics are in stale-mate.

Under the circumstances, he has proposed that the NEHU may consider constitution of a faculty of Engineering which may award Diplomas and Degrees within its territorial jurisdiction. The State Government has decided that steps should be taken to establish an Engineering College in Meghalaya and the Government is exploring the possibility of upgrading the Shillong Polytechnic into a full-fledged Engineering College in phases. He has further requested the University to give reaction on the role that it can play on the proposal of the State Government.

The NEHU Act 1973 under Clause 5 provides that the University shall have amongst the others the following powers:-

1. to provide for instruction in such branches of learning as the University may, from time to time, determine and to make provision for research and for the advancement and dissemination of knowledge;
2. to take such academic steps as would contribute to the improvement of the economic conditions and welfare of the people of the hill areas of the North East-ern region;

Contd/...

3. to grant, subject to such conditions as the University may determine, diplomas or certificate to and confer degrees and other academic distinctions on the basis of examinations, evaluation or any other method of testing, on persons, and to withdraw any such diplomas, certificates, degrees or other academic distinctions for good and sufficient cause;

Statute 15 of the first Schedule of the NEHU Act, 1973 as amended up to date provides that the Academic Council shall in addition to all other powers vested in it have the power to :-

- (a) to exercise general supervision over the academic policies of the University and to give directions regarding method of instruction, co-operative teaching among colleges and institutions, evaluation of research or improvement of academic standards;
- (b) to consider matters of general academic interest either at its own initiative or on a reference by a School or the Executive Council and to take appropriate action thereon; and
- (d) to frame such regulations and rules consistent with those Statutes and the Ordinances regarding the academic functioning of the University, discipline residence, admission, award of fellowships and studentships, fee concessions, corporate life and attendance.

Ordinance 1 as approved by the Government of India provides that the University may establish the following

Schools :

1. School of S-ocial Sciences.
2. School of Life Sciences.
3. School of Environmental Sciences.
4. School of Physical Sciences.
5. School of Medical Sciences.
6. School of Agricultural Sciences.
7. School of Languages.
8. School of Education.

Contd/...

It appears that the provision for establishment of a School of Engineering has not been included in the approved Sciences. In view of the above noted facts it may be difficult for the University to go in for full-fledged Engineering Faculty (School of Engineering) at the present moment, but the University is competent to institute a Diploma Course in Engineering without even having a School of Engineering.

As may be recalled when the University was established all the Courses of instruction which were given to the affiliated college students of the Gauhati University were taken over by the University under provision of Clause 42 of the NEHU Act, 1973. The Clause is quoted below :

"Notwithstanding anything contained in this Act, or in the Statutes or Ordinances, any student of a college or institution who immediately before the admission of such college or institution to the privilege of the North-Eastern Hill University, was studying for a Degree, Diploma or Certificate of the Gauhati University shall be permitted by the North-Eastern Hill University to complete his course for that Degree or Certificate as the case may be, and the North Eastern Hill University and such college or institution shall provide for the instruction and examination of such student in accordance with the syllabus of studies of the Gauhati University;

Provided that colleges and institutions desirous of admission to any privileges of the University during the academic session 1973-74 and 1974-75 shall be required to intimate their intention to do so in writing so as to reach the Vice-Chancellor not later than 15th September, 1973."

In view of the proposal of the Secretary, Education, Government of Meghalaya and also in view of the situation prevailing at present, it is proposed for favour of consideration that the University may consider taking over the Diploma/Certificate Course which are run in the Polytechnics under the jurisdiction of this University.

Contd/...

For purposes of examination the University may have to accept the syllabi and regulations which are at present followed by the Board of Technical Education, Assam pending creation of School of Engineering in the NEHU. The University is empowered to institute Diploma/Certificate Courses under the provision of Clause 5(3) of the NEHU Act, 1973 and the Academic Council is competent to frame such regulations and rules consistent with these Statutes and Ordinances . regarding the Academic functioning of the University. (Statute 15(d) of the First S-schedule of the NEHU Act, 1973).

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

Annexure - XV

D.O. Letter No. EDN.307/80/4 dated 31st July, 1980 received from Shri J.M.Phira, IAS, Secretary, Education, etc., Government of Meghalaya, Shillong addressed to Dr A.K.Dhan, Vice-Chancellor, NEHU, Shillong.

- - -

Dear Dr Dhan,

Kindly recall the discussion on 23rd July, 1980 in the Chamber of Minister, Education where the Minister, Law, etc., was also present. The problem of technical education in the State of Meghalaya, Nagaland needs a review. In Meghalaya we have only the Shillong Polytechnic and if I am not mistaken Nagaland have one Polytechnic and both these Polytechnics are affiliated to the Board of Technical Education, Assam. This affiliation has placed us in a highly inconvenient position for ex-aminations and other academic matters and are now in a stale-mate due to the disturbed condition of academic life in Assam. It is therefore time that we consider the constitution of a faculty of Engineering under NEHU which may award diplomas and degrees within its territorial jurisdiction. The State Government has already decided that steps should be taken to establish an Engineering College in Meghalaya. To implement this we are exploring the possibility of upgrading the Shillong Polytechnic into a full-fledged Engineering College. This can be done in phases, perhaps by first introducing condensed degree courses in the Polytechnic and gradually develop regular degree courses. This will go a long way towards promoting technical education in our State. We may kindly be given your reaction on the role that NEHU can play in this proposal at a very early date.

Thanking you,

Item No. 20

To consider introduction of Bodo Language as a Modern Indian Language under the Pre-University syllabus of NEHU

The Bodo Sahitya Sabha, Assam and the Khasi Hills District Bodo Sahitya Sabha have approached the University with the request that Bodo language may be introduced as a Modern Indian Language in the Pre-University syllabus of this University, as a number of Bodo students are studying in the affiliated colleges in P.U. and other courses. The Sahitya Sabha has stated that in the present Pre-University syllabus of Gauhati University which is being followed in NEHU as well, Bodo language is a recognised MIL.

The University has, in the meantime, written to the Gauhati University asking for a copy of the syllabus in Bodo at Pre-University prescribed by that University and their reply is awaited. At present, the Pre-University syllabus of this University allows the following MIL namely, Assamese, Bengali, Hindi, Urdu, Manipuri, Khasi Garo, Mizo, Nepali, Punjabi and Telegu.

The matter is placed before the Academic Council for consideration whether Bodo Language may be included as MIL in the Pre-University, with effect from a suitable date to be fixed.

Item No. 21

Provisional affiliation of Education subject
in Degree Class to Lunglei College from
1980-81

Principal of Lunglei College applied for permission to open Education in Degree Class. Lunglei College is a Government College. Dr K. J. Joseph, Reader of Education Department inspected the college on 23rd February, 1980. He recommended that permission may be granted provided at least one more faculty member must be appointed and more books in the subject must be purchased for the college library. Lunglei College Principal informed the University that the Government of Mizoram sanctioned the second post of Lecturer in the subject and the appointment is being processed.

The Vice-Chancellor had granted provisional affiliation to Education in Degree Class of Lunglei College from 1980-81 session pending the approval of the Academic Council.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor in the interest of Lunglei College.

Item No. 22

Provisional affiliation of Honours Course in
History and Political Science to Champhai
College from 1979-80 :

Principal of Champhai College applied for permission to introduce Honours Courses in History and Political Science. Dr S.N.Rao, Head of the Department of History and Dr R.L.Walli, Reader in Political Science Department inspected the College in March, 1979. The inspection Commission recommended that the college should appoint two more qualified lecturers each in History and Political Science Departments. They also recommended that the college should acquire additional books for Honours Courses. The Principal, Champhai College reported that the recommendation of the Inspection Commission had been implemented.

The Vice-Chancellor granted temporary affiliation to Honours Courses in History and Political Science from 1980-81 session pending the approval of the Academic Council.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor in the interest of Champhai College.

Item No. 23

Provisional affiliation of Geography upto
Pre-University Course to Champhai College
from 1979-80.

Principal, Champhai College applied for the permission to introduce Geography in P.U. Course. Dr Majid Husain inspected the college in March, 1979. He recommended that Geography should be introduced in the college upto P.U. Course from 1979-80 session. The Vice-Chancellor had granted provisional affiliation to introduce Geography in P.U.C. in Champhai College pending the approval of the Academic Council.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor in the interest of Champhai College.

JL/C;xxix/viii/

Item No. 24

Provisional affiliation of LL.B. Preliminary Course to Tura Law College from 1979-80 :

Principal, Tura Law College applied for affiliation of LL.B. Preliminary Course. The University sent Shri Jaljit Singh, Principal, Manipur Law College and also Shri K.C.Medhi, Dean, Law Faculty of Gauhati University to inspect the college in 1976. At that time the University could not consider Tura Law College for affiliation in view of the non-fulfilment of the conditions necessary to open Law College, specially financial condition. The Principal reported that there was much improvement in the financial position in 1980. Further, the Government of Meghalaya informed NEHU that if the University could grant provisional affiliation to Tura Law College then the Government could release grant to Tura Law College.

The Vice-Chancellor appointed Fr R.Geogge Michael, Head of the Department of Zoology and Dr H.Bareh, Reader in the Centre for Creative Arts to examine the whole matter once again. They submitted a report recommending provisional affiliation to Tura Law College.(Annexure - XV) The Vice-Chancellor granted provisional affiliation to Tura Law College to start LL.B. Preliminary Course from 1979-80 session pending the approval of the Academic Council.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor in the interest of Tura Law College.

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Annexure-XVI

REPORT ON THE GRANTING OF PROVISIONAL
AFFILIATION TO TURA LAW COLLEGE

As directed by the Vice-Chancellor vide orders dated 19.5.80 the question of granting of affiliation to Tura College has been discussed. It is found that the University had deputed two Inspection Commissions earlier to the Tura Law College. Both the Commissions had submitted the report along with their recommendations. As per the report of the Principal, Tura Law College dated 13th February, 1980 it appears that progress had been made by the College in implementing the recommendations. Further it appears that it is a clear case that due to lack of financial resources the implementation of the recommendations of the Commissions could not be implemented fully. As per State Government letter No. **EDN.146/77/36** dated 17th November, 1979 it is stated that the State Government is willing to render financial assistance to the College on condition that the College obtains the provisional affiliation from the University. The Committee feels that provisional affiliation could help the College to be eligible for grants from the State Government and in turn the grants would enable the College to fulfil the condition laid down earlier by the Inspection Commissions. Under the circumstances and in view of the genuine attempts on the part of the College to implement the recommendations and also in view of the Government's offer to financially help the College the committee recommends that provisional affiliation be granted subject to the approval of the Vice-Chancellor pending the approval of the Academic Council. It may be added that there is a strong case for such decision in view of the fact that the Institution meets the needs of that region where there are no other law colleges.

Sd/- (Dr. L. G. Michael)

Sd/- (Dr. H. Berek)

Item No. 25

Provisional affiliation of Honours Course
in Khasi Language to Shillong College from
1980-81 :

Principal, of Shillong College applied for affiliation of Honours Course in Khasi Language. Dr H. Bareh, Reader in the Centre of Creative Arts inspected the college on 20th May, 1980. He recommended that the affiliation of Honours Course in Khasi Language should be granted to Shillong College from 1980-81 session. The college authority obtained permission from the Government of Meghalaya for appointment of additional teacher in the subject. The Vice-Chancellor granted temporary affiliation to Honours Course in Khasi Language to Shillong College from 1980-81 session pending the approval of the Academic Council.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor in the interest of Shillong College.

Item No. 26

Provisional affiliation of S-tatistics
B.Sc.(Pass) Course to Science College,
Kohima from 1980-81 :

Principal of S-cience College, Kohima applied for
affiliation of Statistics(Pass) Course in B.Sc. Dr K.K.Gupta,
Dean of S chool of Physical Sciences inspected the College
on 26th April, 1980. He recommended that the college should
be given permission to start Statistics in B.Sc. Course
(Annexure - XVII).

The Academic Council may kindly approve the
recommendation.

Annexure XVII

REPORT REGARDING THE OPENING OF
STATISTICS (B.Sc.) IN SCIENCE
COLLEGE, KOHIMA

I visited the Science College at Kohima on 26 April, 1980. There is an adequately trained teacher in the Mathematics Department there who can undertake the work of teaching this subject. They should, however be asked to procure a calculator (Preferably electronic) for practical work.

I recommend that the college be given permission to start Statistics in their B.Sc. curriculum.

Sd/- K.K.Gupta
Dean,
School of Physical
Sciences
North-Eastern Hill University
Shillong.

Dated: 24.6.80

Item No. 27

Provisional affiliation of Honours Course
in Khas-i Language to Lady Keane Girls'
College from 1980-81

Principal, Lady Keane Girls' College applied for affiliation of Khasi Honours Course in the College. Dr H. Barih inspected the college and his recommendation had been placed before the Academic Council. Vide resolution No. AC:8:80:18 the Council resolved to refer the matter to Dr A.G. George, Dean, School of Languages for comments. The Council further resolved to authorise the Vice-Chancellor to take final decision on the report of Dr A.G. George. Dr A.G. George visited the college on 7th July, 1980. He recommended that Lady Keane Girls' College should be granted permission to start Khasi Honours Course from 1980-81 session. The Vice-Chancellor granted provisional affiliation of Khasi Honours Course in Lady Keane Girls' College from 1980-81.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor in the interest of Lady Keane Girls' College.

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Item No. 28

Provisional affiliation of LL. B.
Intermediate Course to Kohima Law
College 1980-81:

Principal of Kohima Law College applied for affiliation of LL.B. Intermediate Course to Kohima Law College. Shri J.P. Bhattacharjee, Senior Advocate, Nagaland High Court, Shri S.N. Phukan, Secretary to the Government of Meghalaya, Law Department and Shri A. Barthakur, Bar-at-Law Advocate, Gauhati High Court inspected the college. They recommended that the affiliation should be granted to the Kohima Law College upto LL.B. Intermediate Course from 1980-81 session. (an extract of the recommendations is placed at Annexure - XVIII).

Annexure - XVIII

1. An extract of the Recommendation of Shri.A.R.Barthakur, Bar-at-Law Advocate, Gauhati High Court and Shri.J.P.Bhattacharjee, Senior Advocate, Nagaland High Court - Inspection Commission on affiliation of LL.B. Intermediate Course in Kohima Law College from 1980-81.

** * **

The above, the question of grant of affiliation to the Law College at Kohima may be considered and we feel that affiliation may be granted, if otherwise permissible under the University Rules. At any rate, some workable arrangement should be made so that the students joining the College with high hopes may be able to appear in the Law Examinations of the University."

SD/-
A.R.Barthakur
Bar-at-Law Advocate
Gauhati High Court
12.4.1980

SD/-
J.B.Bhattacharjee
Senior Advocate
Nagaland High Court
12.4.1980

2. Extract of the Recommendation of Shri. S.N.Phukan, Secretary to the Govt. of Meghalaya, Law Department, Inspection Commission on affiliation of LL.B. Intermediate Course in Kohima Law College from 1980-81.

"After inspecting the College, I am satisfied that provisional affiliation to the Kohima Law College may be granted both for Preliminary and Intermediate Course of the LL.B.

SD/-
S.N.Phukan
Secretary to the Government
of Meghalaya, Law Department
2.7.1980

Item No. 29

Equivalence of Elementary Teacher
Certificate with H.S.S.L.C./P.U.C. :

The Head of the Department of National Council for teachers Education in his letter No.F.16-5(12)(2)(c)/78-80/NCTE, dated 3rd May, 1980 (Annexure - XIX) requested this University to equate the Elementary Teacher Education Certificate with H.S.S.L.C./P.U.C. for admission into 3-year Degree Course. The matter is placed before the Academic Council for its consideration.

- - -

Jl/C/xxix/viii/

Annexure - XIX

P.16-5(12)(2)(c)/78-80/NCTE
NATIONAL COUNCIL FOR TEACHER EDUCATION
(Department of Teacher Education)
Shri. Aurobindo Marg,
New - Delhi-110016

Dated 3 - 5 -1980

All Registrars (Academic)
Indian Universities

Subject :- ~~Equivalent~~ of Elementary Teacher Education Certificate with Higher Secondary School Certificate enabling Elementary School teachers to get admission into 3 years Degree Course.

Ref : Letter No.16-5(12)(2)(c)/78-80/NCTE, dated 21st September, 1978.

Sir,

Elementary School Teachers who have undergone a two year Teacher Training programme after High School or one year Teacher Training programme after Higher Secondary Course have completed a total of 12 years or more of education including the period covered by teacher training. During teacher training, they have studied subject like Psychology, Sociology, School Organisation Health Education etc. besides the content and methodology of various school subjects. The standard of these subject is comparable to that of the higher secondary (12) level.

Taking the above into consideration, the 3rd annual meeting of the NCTE recommended that the product of two year elementary teacher education may be made eligible to join 3 year degree courses for further higher education. This question may kindly be considered by the appropriate body in your University. If necessary you may organise a bridge course to make up for the deficiencies if any before admitting them to 3 year degree programme.

Action taken in this regard may kindly be informed to the undersigned in due course for reporting to the NCTE general body.

(R.C.Das)

Head of the Department

Copy to i) All the Field Advisors of NCERT
ii) Chairman, S.B.T.Es.
iii) Directors of School Education with a request to follow up with Universities in their States

Item no. 30

Provisional affiliation of Regional
Medical College, Imphal to NEHU :

Shri R.K.Dorendra Singh, Hon'ble Chief Minister of Manipur and the Chairman of N.E.R.M.C.S. in their letter Nos.1/1/80-(M) dated 1st April, 1980 (Annexure - XX) requested this University for temporary affiliation of the Regional Medical College, Imphal to NEHU and to establish Medical Faculty and to arrange Medical Examinations at the earliest possible opportunity.

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

- - -

Annexure - XX

R.K.DOLENDRA SINGH
CHIEF MINISTER
MANIPUR
& Chairman, N.E.R.M.C.S., Imphal

D.O.No.1/1/80-(M
Imphal
The 1st April, 1980

My dear Vice-Chancellor,

You may be aware that the Regional Medical College Imphal which caters the needs of Medical Education for the States of Manipur, Meghalaya, Arunachal, Mizoram, Tripura and Nagaland is affiliated to the University of Gauhati. Due, unfortunately, to the situation in Assam, the students of R.M.C. Imphal have not been able to undertake the University examination scheduled normally in December, 1979. Due to the uncertainty of situation, it is not known if the students of Regional Medical College will be able to undertake the forthcoming examination in April/May '80 either. This has resulted not only in severe disruption in the non-production of the qualified doctors which is so urgently and acutely needed for running the Medical services of the various concerned states. In addition, the students of the R.M.C. have become very restive and the Government of the concerned states have felt concerned about it.

I shall be extremely thankful if you could take urgent steps for temporary affiliation of the Regional Medical College, Imphal to the North Eastern Hill University, establish a medical faculty and arrange the University examination at different levels at the earliest possible opportunity. Your serious effort in the direction will be highly appreciated.

I am also writing to the Hon'ble Minister, Education, Government of India in this regard to sanction his approval and facilitate the normal procedure in the matter.

With regards.

Yours sincerely

Dr. Dhan,
Vice-Chancellor,
N.E.R.M.C.S., Shillong.

ED/-(R.K.Dolendra Singh)

Item No. 31

Taking over of Shillong Law College by
NEHU - a proposal from the Principal of
Shillong Law College :

Principal of Shillong Law College in his letter D.O.
No. LC dated 19th April, 1980/has submitted a proposal to the
University for handing over of the College with all its
assets with a view to form a nucleus of the Law Faculty in
the University.

/(Ann-
exure-
XXI)

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

CONFIDENTIAL

Annexure - XXI

D.O.No. LC

19.4.80

Dear Dr Dhan,

The Shillong Law College established in September, 1964 has now grown to full dimension, it is a Private Institution maintained from its own resources. We bought the land nearly one acre in ideal situation of the city. We made the spacious building, furnished it adequately, built up a library none too small for our need, kept a reserve fund of Rs 23,100/- interest and holding a current account fund of nearly half a lakh in the minimum, besides we have other funds totalling not less than a lakh of rupee. In addition we have an extra plot of land measuring 1,746 acre situated in educational part of the city and this is earmarked for hostel or expansion. Our entire assets including land and building are now worth over 20 lakhs in any moderate estimate. The staff of 9 members is paid regularly out of our fund. We have no liability at all.

In order to make room for further expansion and fuller growth, I have a proposal to make. At this stage I think the College with all its assets (it has no liability) be taken over either by the University or by the State Government. Falling in line with law colleges of this part of the country, to form a nucleus of a Law Faculty. Some other universities have also law colleges under their law faculty. So I do not think there may be objection to run this institution as well by the Law Faculty of North-Eastern Hill University. I accordingly make this suggestion to know your view. If you agree on principle then we can go ahead with require formalities. I shall be obliged to have an early reply.

/we would like
to hand it
over to your
University

With kind regards,

Yours sincerely,

Sd/- L. Sharma,
Principal,
Shillong Law College, Shillong.

Dr A .K.Dhan,
Vice-Chancellor,
NEHU, Shillong.

*Support
Conference.
A. 12/9/80.*

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

ADDITIONAL AGENDA FOR THE NINTH ~~MEETING~~
OF THE
ACADEMIC COUNCIL

Friday, the 12th September, 1980
Shillong

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

ADDITIONAL AGENDA FOR THE NINTH MEETING
OF THE ACADEMIC COUNCIL

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*Regulations Committee
Committee of all Heads of U/grad. Courses
Science & Arts for U/grad. Courses*

Item No.1

Minutes of the School Board of Life Sciences
in respect of Pre-Ph.D.Course for Zoology
Department :

Approved

The Pre-Ph.D. Course for Zoology as approved by
the concerned School Board meeting is placed at
Annexure - I for consideration & approval of the
Council.

Pre-Ph.D. Courses

BIOGEOGRAPHY

Historical, Zoogeography - Principles- Zoogeographic Studies - Biogeography; Zoogeographical Realms - Land bridges - Geological Claciations; Animal migrations - Dispersal - Centres of Origins - Faunal regression and transgression; Distribution - area and dynamics- circumpolar and pantropical - Zonal and marginal distributions; Chorology - Faunistics - Systematics zoogeography and inter relationship. Continental Pattern - drift - faunal regions - Discontinuities - Tectonics - effects on faunal regions - Palaobiogeography - Orogenic effect of the Himalayas on the Oriental fauna; Natural regions of India - Biogeographical Evolution of India - Role played by Eastern and Western Ghats - Extra peninsular regions; Evolution of the geographical patterns - Ranges, Population and Zoogeographic movements - Dispersal and climate - Dispersal between old and new Worlds - Area, Climate and Evolution; Geological Calender - Era - Periods - Evolution of animal life - Adaptation; Hypotheses and theories of zoogeography. Sclator, Darwin, Wallace, Blanford, Meyr, Darlington, Hinning, Modern concept of Zoogeography.

TECHNIQUES

Mapping, Range representation, Statistical analysis - ecological methods.

ANIMAL CYTOGENETICS

Genes, Species and Populations Genes and Development - Mutagenesis at cellular level - Cytogenetics of insects, fish and mammals - Cancer: The misguided cell - Cell culture and various - Chromosome methodologies - Hybridization and helerosis.

Contd/....

FUNCTIONAL MORPHOLOGY OF VERTEBRATES

Introduction - adaptation - their evolutionary value - cursorial adaptation in different systems of various vertebrates; Fossorial adaptation; aquatic adaptation, terrestrial and desert adaptation - different types of eggs; Flight adaptation - Gliding adaptation; Deep sea adaptation; arboreal adaptation; cave adaptation; ionic and osmotic regulatory adaptations in fresh water, brackish and marine habitats.

ALTITUDINAL PHYSIOLOGY

(i) The Himalayan system : The north-west Himalaya the mountain ranges; the rivers; the lakes; glaciers; permanent snow-line, geology Biotic province above the timber line in north-west Himalaya-Timber lines. The insect life above the timber-line in the North-west Himalaya.

(ii) Origin and history of altitudinal lakes, hill stream fauna and flora : adaptation for life in high altitudinal stream and lakes.

(iii) Ecological specialisation : High altitude melanism; reduction and loss of wings in insect some other general structural peculiarities; Cold stenothermy; Hygrophila and terricolous; general activities of insects; food habits.

(iv) Ecological interpretations : Essential basis of interpretations; interrelations with plants of the nival biota; interrelations with animal of the nival biota.

(v) Insect communities above timber-line: The nival insect communities; Rock communities; understone communities; Soil communities; phytophile communities.

(vi) Some Nival Insects and other arthropods.

(vii) The origin and Evolution of the Nival Insect Fauna : The sources of endemism, the major changes during evolution, major factors in evolution. The age of the nival insect fauna; some recent trends.

Contd/.....

DEVELOPMENTAL PHYSIOLOGY OF ARTHROPODS

Metamerism as a special type of symmetry, Comparison in various subphyla of Articulata, Heteronomous metamerism in (a) trilobites, (b) Chelicerata orders. Developmental systems; Insects.

Cogenesis; Development of apterygote, hemimetabolous and holometabolous insects; eggs cleavage and blastoderm formation, elongation and segmentation of germ band, gastrulation, somites, ganglia, rupture of embryonic membranes (Katalepsis), further development of the embryonic ectoderm and gut.

Polyembryony in Hymenoptera Strepsiptera; Development of spatial patterns in the integument of insects - Cell polarity; precisely placed bristles. The imaginal Disc of *Drosophila* - State of determination, long term cultures of marginal discs; genetic control of disc development, neuroendocrine system. development hormones; hormonal influences in developmental events, mode of action of hormones.

BIOCHEMICAL TAXONOMY

Primary structure of animal proteins as guide in taxonomic studies; Haemoglobin in Man and Animal; Acrylamide gelelectrophoresis of Prelerin. The application of gelelectrophoresis to the classification of microorganisms; Species differences in amino acid. Sequenced; Serotaxonomy of vertebrate and invertebrate soluble proteins; Taxonomic applications of DNA Hybridization techniques. Evolution of Ribosomal RNA Base salt differences in relation to Taxonomy and systematics. The assessment of new types of character in Taxonomy, Techniques - Chromatography. TLC, Ion exchange and absorption chromatography, column chromatography, Electrophoresis, Isoelectric focusing and isoelectrophoresis, Spectrophotometry Protein sequencing, density gradient centrifugation Immunological methods and statistical analysis.

EXPERIMENTAL LIMNOLOGY

The Calcium-bicarbonate system; Photosynthesis, energy, nutrient supply and adaptation, Intracellular conversions and extracellular, Net production, respiration and mineral issues; Variations of Photosynthesis in time and space; The metabolic and geochemical phosphate cycle; Interconversions of different forms of Nitrogen; Nitrogen fixation and blue-green algae; Physiological properties of blue-green algae stimulating bloom; Silicon - its compounds chemistry, biochemistry and physiology of uptake by diatoms; Oxidative and Anaerobic mineralisation, the (H) donor and the carbon source; The oxidative - reduction

Contd/...

(redox) sequences, the pH sequences; Algal cultures and growth equations; Chelation of trace elements; Organic matter - occurrence, structure and fractionation; algae and their pigments; Zooplankton - Field studies (Population dynamics approach) measurement of t and b and daily increases; bacterial limnology; Nutrient budget calculations, Eutropication; Sediments.

FOREST SOIL ECOSYSTEM

Principles and theories of the study of soil fauna; Methods and techniques of the study of soil fauna - extraction - preservation - identification; Classification and description of soil fauna - extraction - preservation - identification; Classification and description of soil fauna; importance of taxonomy in soil Zoology; habitant preference - activity (carnivores, phytophagous etc); Concept of soil environment and microclimate; physico-chemical factors; basic concepts on the above technique and instrumentations; Study of the relationship between soil animals and vegetation; Concept of distribution of soil fauna in space and time - habitant selection - factors determining the distribution - diurnal and seasonal rhythms - Statistics in soil Zoology - Factors determining/regulating population size; Concept of demography in soil Zoology - age structures - sex ratio - life tables. Biomass and metabolism in soil animals - the role of soil animals in litter break - down and decomposition Food chain relationships between soil faunal populations - the herbivore level - carnivore level - decomposer levels; Characteristic of soilfaunal community - grassland, forest, cultivated land effects of pesticides, fire, flood on the qualitative and quantitative composition of soil fauna.

FOREST INVERTEBRATE CONSUMERS

Study of the forest pests and other sexual insects which are present in that particular forest ecosystem; Nature of the pest, damage, population study of the insect by quadrat method, selection of key organisms for the study of 2 - 3 annual cycles, Estimation techniques - light - trapping etc., and taxon only; Biology of some pests which are very common in the forest, relation with the other aerial insects and organism; Interrelationship among the consumers and decomposers; Effect of different physical, chemical and Biological - factors on the insect population; Effect of different physical, chemical and Biological factors on the different life-stages of the Key Organisms; Effect of the parasites and predators on the insect population in a particular community of the forest.

Contd/...

PROTEIN CHEMISTRY

Primary, secondary, tertiary and quaternary structure of proteins, Chemical modification of protein side chains, enzymatic and chemical methods of protein degradation. N and C - Terminal determination, Structure - function relationship of proteins. Prediction of tertiary structure of proteins from the amino acid sequences.

Principles of techniques used in the study of proteins - Electrophoresis, electrofocusing, column chromatography, affinity chromatography, gel filtration, ultracentrifugation, x-ray crystallography.

ANURAN BIOLOGY

Distribution of anurans in space and time - Anurans found in India with special reference to those of North-Eastern regions. Habit, habitat and life cycles of selected species. Study of anuran populations - Food and feeding habits - Induced breeding and development - Ecological aspects controlling development - Ecological aspects controlling development - culture techniques.

EXPERIMENTAL EMBRYOLOGY

Glassware, Instruments and Laboratory requirements. Study of development and Staging of embryos with special reference to fish, frog and chick. Analytical experiments (ligature, decapsulation, transplantation and parabiosis in anura; explantation and transplantation experiments in chick; immunoelectrophoretic analysis of lens proteins; effect of thyroxine on amphibian metamorphosis) Theoretical knowledge of various after techniques.

Contd/...

ANIMAL MORPHOGENESIS

Glasswares, instruments and laboratory requirements.
Study of animal development with special reference to
anyone of the chick Hydra and Insects.

Chick: Staging of chick embryos. Detailed development
of chick upto 96 hrs. Effect of incubation on different
temperatures. Study of various experimental techniques.
Transplantation techniques and study of differentiation
tendencies.

Hydra: Detailed study of development of Hydra. Collection
and study of various species of Hydra at Shillong.
Study of breeding cycles and development of Hydra in
relation to environmental conditions.

Insects: Detailed study of development of Hemi and Holome-
tabolous insects. Maintenance and culture technique of
insects. Modes of reproduction and breeding habits of
insects; Fate mapping and other experimental techniques
employed in the study of insects. Hormonal regulation
of metamorphosis.

ADAPTATIONAL BIOLOGY & PHYSIOLOGY

Concepts of environmental stress and strain,
and organismal responses; types of stress injury;
stress resistance; stress avoidance and stress
tolerance; adaptation, acclimation and acclimatization;
Homeostasis. Different types of environmental stresses
and their effect on the animals :- Thermal stress,
osmotic and ionic stress, Oxygen deficit stress and
pollution stress. Biological rhythms.

Contd/....

BIOCHEMISTRY OF DEVELOPMENT & DIFFERENTIATION

Chemical and metabolic changes of the gametes during growth and maturation; Biochemistry of fertilisation; Biochemical changes during cleavage and differentiation; Organizer concept; Biochemical regulations of development and differentiation by different intrinsic and extrinsic factors including metamorphosis; Differential gene expression as the basis of differentiation; differentiation.

- - -
- - -

TAXONOMY AND BIOLOGY OF FRESHWATER ORGANISMS

Freshwater as an environment - major groups of freshwater organisms - different systems of classification of freshwater organisms - lentic and lotic animals, similarities and differences - conventional and modern tools in taxonomy with regard to freshwater forms - construction of keys - culture methods in invertebrates - collection, preservation and mounting procedures employed in taxonomy studies.

BIOSYSTEMATICS

International codes of Zoological nomenclature - population in systematics - factors influencing morphological changes - concept in new systematics - current methods in morpho-cyto and chemo-taxonomy - species concept - data collection. Processing and cataloguing - phylogenetic considerations - biogeographic considerations of systematics plate tectonics and its implications.

FISH BIOLOGY

Fish taxonomy; Basic fish anatomy and physiology - integument, scales form and locomotion, food and feeding; migration, respiration, circulation, osmoregulation and excretion, reproduction, nervous system; age and growth; induced breeding; hybridization. sex-reversal; population dynamic of fishes, fish disease and parasites; interrelationship between fishes and their environment; fish behaviour; outline of fish - culture methods.

Item No. 2

Revised Programme Outline of M.A.
(Education) and M.Ed. (New Scheme)
Courses :

The Department of Educational Research & Studies has formulated a revised programme outline of the M.Ed. (New Scheme) and M.A.(Education) courses. The same has since been got circulated to members of the Post-Graduate Board and School Board. (Annexure - II)

The Academic Council may approve the programme outline for implementation in respect of M.A. (Education) (1979) and M.Ed.(New Scheme) (1980) batches.

- - -

Annexure - II

M.A. (Education) Programme Outline

<u>Semester - I</u>	<u>Credits</u>
EC.1 Philosophy of Education	4
EC.2 Sociology of Education	4
EC.3 Educational Psychology (I)	4
EC.4 Development of Educational Thought-I (Eastern)	4
<u>Semester-II</u>	
EC.5 Research Methodology	4
EC.6 Educational Psychology (II)	4
EC.7 Educational System in Ind-ia	4
EC.8 Practicum (Survey, Laboratory work, case studies, testing, etc.)	4
<u>Semester-III</u>	
EC.9. Development of Educational Thought- (II) (Western)	4
EC.10 Educational Management	4
Optional - I	4
Dissertation work	
<u>Semester-IV</u>	
EC.12 Educational Technology	4
EC.13 Comparative Education	4
Optional - II	4
Dissertation (The work on the dissertation will be spread over the third and fourth semesters).	

Total:- 64

Optional (Students are to select any two optionals from the following - one in Semester III and one in Semester - IV)

- EO.1 Economics of Education
- EO.2 Advanced Educational Statistics
- EO.3 Educational Planning
- EO.4 Curriculum Development
- EO.5 Evaluation and Measurement
- EO.6 Innovations and change in Education
- EO.7 Adult Education
- EO.8 Population Education
- EO.9 Problems of Education in the North-Eastern India

*minutes for
Ordinances*

- 160 -

Item No. 3

To consider certain items received from the
Department of Philosophy :

Three items received from the Department of Philosophy
are placed below for consideration of the Academic Council.

(a) Anomalies in the Academic Ord-inances
and Regulations -

We would like to point out certain anomalies and
unclearities in the Academic Ordinances and Revised Regulations
relating to Courses, Credits, etc., in respect of cases where
a candidate might "repeat" a course given in any of the four
semesters.

There are two possible situations where such a case
might arise : (i) the candidate's failure to clear a course in
a particular semester and ; (ii) the candidate's desire to
improve his grade point average in a particular course which
he has already cleared.

I. (i) There seems to be an incompatibility between
Academic Ordinance 10.7 and Clause 4 of the Revised Regulations.
Academic Ordinance 10.7 says "a student who does not clear a
course or courses (owing to failure to pass, or to appear in
the sessional work and semester examination), may clear them
subsequently in any of the remaining semesters of the six
semesters during which he is permitted to participate in the
curricular programme for the degree". And Clause 4 of the
Revised Regulations says, "the normal work load for a
semester will be 16 credits". It appears, therefore, that if a
candidate decides to clear a course in which he had failed in
the previous semester, he might have to be given the work
load of more than 16 credits which is not allowed in Clause 4
of the Revised Regulations. Such a situation will arise in
the event of the candidate's deciding to clear a course in
which he has failed within the remaining semester of the
first four semesters of his stay in the Department.

Contd/...

(ii) The concept of "unsatisfactory performance" used in Academic Ordinance 10.3(c) is not made clear. From Academic Ordinance 10.7 it would appear to be the case that "unsatisfactory performance" does not mean failure. What does then "unsatisfactory performance" mean?

II. (i) Corresponding to the incompatibility pointed out at I(i) above, there is a similar incompatibility between Clause 4 of the Revised Regulations and Clause 10 of the same in respect of credit requirements of a candidate.

(ii) The only clause in the Revised Regulations concerning improvement of grades (Clause 10) says : "subject to availability of the course, any student securing a 'D' grade or above may be permitted to improve the grade by repeating the course once". This may give rise to cases of unfairness and injustice. A candidate who would like to improve his grade in a particular course when this course is not made available to him in any of the semesters of the remaining six semesters will be at a disadvantage compared to a candidate who wishes to repeat a course which is made available.

(iii) Should it therefore be obligatory on the part of the Department to make available any course which a candidate might wish to repeat?

(iv) In case a particular course is not available during the time remaining for a candidate in the Department, would it not be fair to provide the possibility of his being able to take any one of the courses instead, which are being offered during this time? Of course, such a course must not be one which he might have already taken in his previous semesters.

(v) For improving his grade in a particular course, should a candidate repeat both the sessional work and the semester examination in the course or should he only repeat either of them?

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Contd/...

(b) Courses for M.A. and M.Phil -

The Courses for Semesters I & III of M.A. and Semester I of M.Phil ., 1980 are placed at Annexure - III for consideration of the Council.

(c) Courses for 2-Year B.A. Pass & Honours -

The 2-Year B.A. Pass and Honours Courses as approved by the Board of Under-Graduate Studies of the Department of Philosophy are placed at Annexure - IV for consideration of the Academic Council.

- - -

DEPARTMENT OF PHILOSOPHY
M.A. (Previous)
Semester : I
1980

Course I Descartes and Modern Philosophy

Prof. M. Miri

Method of doubt; the problem of the "foundation of knowledge; Cogito Ergo Sum; self and self-knowledge; knowledge of other minds; knowledge of the external world; the problem of body and mind.

Recommended Readings

1. Descartes, R : Meditations on first Philosophy.
2. Williams, B : Descartes
3. Doney, W. (ed) : Descartes
4. Kenny, A : Descartes
5. Ryle, G : The Concept of Mind (Chapter - I)
6. Lindsay : S-elections from Descartes.

Course II Indian Philosophy I (Dr. (Mrs) S. Miri)

1. Man and Transcendence. This world and the other world. Nature of the relationship between the two worlds.
2. Defining Transcendence : the world of the gods; the Brahma; communication between man and God; the identification of man with the Brahman; the concepts of Moksa, Nirvana.
3. Techniques for man's transcendence of this world: technique of Mantra, Tantra, Tapas.
4. Man as sacred - the concept of Bodhisattiva, tirthaakara, avtara.

Recommended Readings

1. Zimmer : Philosophies of India.
2. Nikhlananda, S : The Upanishads (extracts).
3. Ghurye, M.S. : Indian Sadhus.
4. Bharati, A : The Tantric Tradition.
5. Smith, H : The Legend of Man.
6. Prasad, R : Theory of Purusarthas : Revaluation and Reconstruction.

Contd/...

7. Khandekar, V.S . : Yayati
8. Murthy, Ananda Trans : Sanskara
A.R.Ramaniyan , OUP

Course III Symbolic Logic

Dr J. Pal

1. Truth functional Logic
2. Quantificational Logic
3. Elementary Set Theory.

Recommended Readings

1. Donald Khlish & Techniques of Formal Reasoning
Richard Montague
2. Copi, I.M. Symbolic Logic
3. Basson, A.H.& Introduction to Symbolic Logic.
O'Connor , D.J.

Course IV Moral Philosophy I

Dr R.V.Vyas

1. Morality and Moral Philosophy
2. The Concept of Godd and Hight
3. Fact and Value
4. Naturalistic Fallacy
5. Freedom and Responsibility
6. Meaning and Justification in Ethics
7. Puruarthas

Recommended Readings

1. Frankena, W.K. Ethics
2. Brandt, R.B. Ethical Theories
3. Melon, A.I.(ed) Ethical Theories
4. Warnock, M. Ethics Since 1900
5. Sellars, S.W. & Readings in Ethical Theories
Hospers, J.
6. Mac Intyre, A History of Ethics
7. Prasad, R Theory of Purusarthas :
Revaluation and Râconstruction.

Contd/--...

SEMESTER : III
1980

Course I Problem of Causality in Indian Philosophy

Dr Harsh Narain

1. Meaning of 'causality'
2. Being, becoming, and happening
- iii. Sequence versus simultaneity
- ii. Casual nexus
- iv. Cause and condition
- v. Cause and reason
- vi. Causation and production
2. Identity, continuity, or discontinuous continuity between cause and effect
3. Changeless causality
4. Illusory causality
5. Explaining causality away
6. Rejection of causality

Recommended Readings

1. Kalupahana, David J Causality: the Central Philosophy of Buddhism
2. Bhaduri, S Studies in the Nyaya-Vaisesika Metaphysics
3. Shastri, D.N. Critique of Indian Realism (Chaper V, Sections 1-4, VII)
4. Mishra, Umesh Conception of Matter According to Nyaya-Vaisesika
5. Bhartiya, M.C. Causation in Indian Philosophy
6. Santinatha, Sadhu A Critical Examination of the Philosophy of Religion, Vol. I
7. Smart, Ninian Doctrine and Argument in Indian Philosophy

Course II

R.M.Hare : Language of Morals

Dr J.Pal.

1. Hare, R.M. Freedom and Reason
2. Warnock, G.J. Contemporary Moral Philosophy
3. Warnock, M. Ethics since 1900
4. Grice, H.P. Grounds for Moral Obligation

Course III

Philosophy of History

Dr R. V. Vyas

1. What history is about
2. Historical Explanation
3. Objectivity in History
4. History and Progress

Recommended Readings

1. Cray, W.H. Philosophy of History
2. Walsh, W.H. Philosophy of History : An Introduction
3. Carr, E.H. What is History?
4. Rouse, A.L. The Use of History
5. Collingwood, R.G. The Idea of History
6. Mac Iver, R.M. "Historical Explanation", in Essays in Logic and Language, Second Series (Oxford Basil Blackwell, 1953).
7. Toynbee A study of History (Abridged) Vol. I.

Contd/...

Course IV

Early Buddhism

Dr(Miss) R. Gupta

1. Doctribe of Impermanence and Momentariness
2. Doctrine of Non-substantiality of Things
3. Pratitya Samutpada
4. The Middle Way
5. Conception of Nirvana
6. Concepts of Arhat and Pratyekabuddha
7. Buddha's attitude towards the Concept of a Creator God
8. Place of Reason and authority in Early Buddhism

Recommended Readings

- | | |
|------------------------|---|
| 1. Humphrey, Christmas | Buddhism |
| 2. Conze, E | Buddhist Thought in India |
| 3. Murti, T.R.V. | Central Philosophy of
Buddhism (relevant portions) |
| 4. Radhakrishnan, S. | Indian Philosophy, Vol.I. |
| 5. Glassenapp, H.Vonn | Buddhism : A Non-Theistic
Religion |
| 6. Thomas, E. J. | History of Buddhist Thought
in Indian and Ceylon |
| 7. Stcherbatsky, Th. | Central Conception of
Buddhism |
| 8. -do- | Buddhist Logic, Vol.I
(Relevant Portions) |
| 9. Mookerji, S | Buddhist Philosophy of
Universal Flux (relevant
portions) |
| 10. Tatia, N | Nava-Nalanda Mahavihar
Publication, (Paper on
Pratitya-Samutpada, Vol.I). |

Contdp....

4. Mc Pherson Philosophy and Religious Beliefs
5. Basic Mitchell (ed) The Philosophy of Religion
6. Radhakrishnan, S. (tr) Dhammapada

Course VI

Philosophy of Social Sciences

Dr N. Malla

1. The idea of a social science
2. Differences between Natural and Social Sciences
3. Laws and Theories in Social Sciences
4. Explanation in Social Sciences
5. Values in Social Sciences

Recommended Readings

1. Winch, Peter The Idea of a Social Science
2. Vonwright, G.H. Explanation and Understanding
3. Ryan, A The Philosophy of Social Explanation
4. Manners, R.A. & Theory in Anthropology
Kaplan (ed)
5. Feigl, H & Readings in the Philosophy of
Brodbeck, M.(ed) Science
6. Rudner, R Philosophy of Social Science
7. Vesey, A.N. The Proper Studies
8. Northrop, F.S.C. Logic of the Sciences and the
Humanities.

M.Phil
1980

Course I Thought, Experience and Reality :
A Study of Kant's Critique of Pure
Reason

Prof. M.Miri

Recommended Readings

1. Kant, I The Critique of Pure Reason
(Tr. N.Kemp-Smith)

Contd/..

3. Autonomy versus interdependence of religions
4. Rationale of interreligious dialogue
5. Verdict of the religions

Recommended readings

1. R.C. Zaehner Concordant Discord
2. Frithjof Schuon Transcendental Unity of Religions
3. Rudolf Otto Idea of the Holy
4. Williams James Varieties of Religious Experience
5. Harsh Narain "Feasibility of a dialogue between
Hinduism and Islam" , 'Islam and
the Modern Age, Vi. 4, (November, 1975)
57-85
6. Niniam Smart World Religions : A Dialogue
7. Don Aelred Graham Conversation : Christian & Buddhism
8. N.K. Devaraja Hinduism and Christianity

Course IV

Existentialism

Dr (Mrs) S. Miri

1. The Course will consist of a detailed critical study of the existentialist's concept of bad faith. The following will be the basic texts :-

1. Jean Paul Sartre Extracts from Being and Nothingless
(Bad Faith)
2. - do- No. Exit (Penguin)
3. - do- Men Without Shadows (Penguin)
4. Albert Camus The Fall (Penguin)
5. -do- Caligula (Penguin)

Recommended readings

1. Hainemann, F.H. Existentialism and Modern Predicament
2. Warnock, M Existentialism
3. Paul, R Extentialism for and Against

Contd/...

13. Ayer, A .J. Philosophy of Language.
14. Ryle, G Systematically Misleading
 Expressions.
15. Waismann Language Strata

- - -

Item No. 16A

Amendment of Ordinance 10(7) relating to Master's Degree Programme in Arts, Science and Commerce :

The Courses offered by the Post-graduate Departments sometime differed from academic session to academic session. For example, one Course offered at the Third Semester may not be repeated in the next Third Semester. Under the circumstances, students opting for the same Course and desiring to improve their results, are not able to get the benefit of guidance if he desires to repeat the Course for improvement of his results.

It is, therefore, proposed that we may perhaps add a further proviso to the amendment proposed under Item 16 so that such students may opt for a new Course of the Third Semester which is given in lieu of the Course in which he participated. A draft amendment is given below:

"Provided that a student who desires to repeat any Course in which he participated in the First, Second, Third or Fourth Semester and which is dis-continued from the programme, may opt for a new Course of study given in lieu thereof. However, in such cases, the student will be subjected to both internal assessment as well as Semester examinations. He will have to clear the course within the prescribed limit of six Semesters;

Provided also that any student who desires to improve his results will have to surrender his results obtained at the previous examination before he is allowed to repeat the course or undertake a New Course for the purpose. In case, he fails to get a Pass in the course repeated by him he will be deemed to have failed the examination and his results already declared will be cancelled if he is unable to clear the course within the prescribed limit of six Semesters.

The proposed amendment is submitted for consideration of the Academic Council.

JL/C/iii/ix/

Main Agenda
Item No. 11.

PANEL OF EXAMINERS FOR M.A./M.SC. (1980-1981-1982)

.....

1. Prof. C.D. Deshpande, C.R.D., J.N.U.,
New Delhi - 110067
2. Prof. Moonis Raza, CSRD, J.N.U., New Delhi-67
3. Prof. M.Shafi, Head, Deptt. of Geography,
A.M.U., Aligarh
4. Prof. M.Anas, Deptt. of Geography, A.M.U., Aligarh
5. Prof. G.S.Gosal, Panjab University, Punjab,
Chandigarh
6. Prof. L.S.Bhat, I.S.I. New Delhi
7. Prof. S.M.Alam, Osmania University, Hyderabad
8. Prof. S.L.Kayastha, B.H.U., Varanasi
9. Prof. B.Misra, Town and Country Planning,
New Delhi - 110002
10. Prof. Jasbir Singh, Kurukshetra University,
Haryana
11. Prof. Indrapal Gupta, Rajasthan University,
Jaipur
12. Prof. J.R.Pathak, I.I.T., Kharagpur
13. Prof. N. Bhattacharjee, North Bengal University,
Siliguri
14. Prof. S.M.Rafiullah, A.M.U., Aligarh
15. Prof. N. Ahmad, Kashmir University, Srinagar
16. Prof. B.S. Parakh, NCERT, New Delhi - 110016
17. Prof. Vaidyanathan, Andhra University, Waltair
18. Prof. Ramachandran, Delhi University, Delhi
19. Prof. M.R. Choudhury, Burdwan University
20. Prof. V.C. Misra, Saugar University, Saugar
21. Prof. K.N. Singh, B.H.U., Varanasi
22. Prof. L.R. Singh, Bhagalpur
23. Prof. N.B.K. Reddy, Tripuri
24. Prof. R.P. Misra, Mysore
25. Prof. Arunachalam, Bombay
26. Prof. Gupta, Pune

27. Prof. B.L.S. Prakasha Rao
28. Prof. R.L. Devidi
29. Prof. P.C. Aggarwal, Raipur
30. Prof. S. Tiwari, Bhopal University, Bhopal
31. Dr. A.B. Mukerjee, Panjab University, Punjab, Chandigarh
32. Dr. Aijaz Ahmad, CSRD, J.N.U., New Delhi-110067
33. Dr. S.M. Karimi, Patna University, Patna
34. Dr. A. Aziz Tonki, Deptt. of Geography, A.M.U., Aligarh
35. Dr. B. Thakur, Gauhati University, Gauhati
36. Dr. M. Tahir, Gauhati University, Gauhati
37. Dr. Atiya Habib, CSRD, J.N.U., New Delhi-110067
38. Dr. Dharendra, CSRD, J.N.U., New Delhi -110067
39. Dr. M. Raza, A.M.U., Aligarh
40. Dr. I.K. Singh, Utkal University, Bhubaneswar
41. Dr. S.Z. Alvi, A.M.U., Aligarh
42. Dr. A.R. Tiwari, St. John's College, Agra
43. Dr. P. Kumar, Director, Hindi Granth Academy, Bhopal
44. Dr. D.S. Srivastava, Sagar
45. Dr. R.S. Dube, Sagar
46. Dr. R.J. Goel, Meerut College, Meerut
47. Dr. S. Roy, Rajasthan University, Jaipur
48. Dr. T.P. Singh, Lecturer, Delhi University, Delhi
49. Dr. S.M. Ahmad, Jamia College, New Delhi - 25
50. Dr. K.N. Gopi, Osmania University, Hyderabad
51. Dr. T.K. Srivastava, Ghorakhpur
52. Dr. Rama-Chandran, Institute of Social Sciences, Bangalore

53. Dr. L.N. Ram, Deptt. of Geography, Patna University, Patna
54. Dr. S.K. Sarma, Sagar
55. Dr. R.K. Sukla, National Atlas Organisation, Calcutta
56. Dr. A.K. Singh, Reader, Bhagalpur University Bhagalpur
57. Dr. K.Z. Amani, A.M.U., Aligarh
58. Dr. G.B. Singh, Reader, Patiala
59. Dr. M.F. Siddiqui, Reader, Deptt. of Geography, A.M.U., Aligarh
60. Dr. H.M. Qureshi, C.S.R.D., J.N.U., New Delhi
61. Dr. Majid Husain, Deptt. of Geography, NEHU
62. Dr. R.K. Rai, Deptt. of Geography, NEHU
63. Dr. R. Gopalakrishnan, Deptt. of Geography, NEHU
64. Mr. A.C. Mohapatra, Deptt. of Geography, NEHU
65. Mr. A. Ahmad, Deptt. of Geography, NEHU
66. Mr. S.S.A. Jafri, Deptt. of Geography, NEHU
67. Mr. P.G. Momin, Deptt. of Geography, NEHU

B.A. PASS COURSE

The B.A. Pass Course in Philosophy should consist of the following Papers :-

Paper I (Pass and Honours)

Moral Philosophy : (i) Nature of Moral Philosophy, (ii) Ethics, Society and Religion, (iii) Nature of Moral Judgement, (iv) Concepts of good, right and virtues, (v) Human action and freedom, (vi) The Platonic notion of the good, the idea of the categorical imperative, hedonism (Mill), the idea of niskama karma, (vii) Gandhi and the ideal of ahimsa.

Readings

Lillie, W.	: Introduction to Ethics
Sharma, I.C.	: Ethical Philosophy of India
Warnock, G. J.	: Contemporary Moral Philosophy
Mc Intyre, A	: A short History of Ethics
Kottur, G.	: Ahimsa from Gautam to Gandhi
Maitra, S .K.	: Hindu Ethics

The following articles should also be added to the list of readings for this Paper :-

- (a) "The moral and the axiological ought" -
Daya Krishna - The Journal of Philosophy, U.S.A.
October, 1956, No. 8
- (b) "The Nature of value Judgements" - Daya Krishna -
Australian Journal of Philosophy, May, 1958.
- (c) "An attempt towards a theory of Ethics " - Daya
Krihsna - Saugar University Journal, 1957.
- (d) "An attempted analysis of the Concept of
Freedom" - Daya Krishna - Philosophy and
Phenomenological Research, June, 1952.
- (e) "The Concept of Moksa " - R.Prasad - Philosophy
and Phenomenological Research
- (f) "Justification in Ethics " - R.Prasad - Indian
Journal of Philosophy, Bombay - Vol. I August, 1959.

Contd/....

Paper - II (Pass & Honours)

Theory of Knowledge and Metaphysics

1. Meaning of Philosophy : Philosophy, Science, Religion
2. Scepticism and answers to it.
3. Origin of Knowledge : Common Sense, Empiricism, Rationalism and Intuitionism.
4. Theories of Perception : Realism, Idealism and Phenomenalism.
5. Categories of Knowledge, Substance, Causality, Space and time.
6. Theories of Evolution
7. Idea of God and Proofs for God's Existence.
8. God and the World.

Readings

- | | |
|--------------------|---------------------------------------|
| Russel, B. | : The Problem of Philosophy |
| Ewing, A.C. | : Fundamental Questions of Philosophy |
| Hamlyn, D.W. | : The Theory of Knowledge |
| Bhattacharya, H.M. | : Principles of Philosophy |
| Ayer, A.J. | : Central Questions of Philosophy |

Paper III

History of Philosophy -

1. Plato (theory of Justice and theory of Knowledge).
2. Descartes (problem of mind-body distinction; place of doubt in philosophical thinking; existence of God).
3. Hume (causality and self-identity)
4. Kant (distinctions between analytic and synthetic, a priori and posteriori; possibility and synthetic a priori propositions).

.....
Contd/.....

5. Buddha (concept of suffering, problem of self)
6. Carvaka (materialist conception of the world; pleasure as the ideal of life).
7. Sankara (self and the world).
8. Samkhya (Theory of Evolution)

Readings

- (a) F. Copleston : A History of Western Philosophy
(relevant volumes)
- (b) W. Falkenberg : A History of Modern Philosophy
- (c) C. D. Sharma : A Critical Survey of Indian
Philosophy

Logic or Philosophy of Religion

The Course on Logic should consist of the following :-

- (a) Nature of Logic
- (b) Truth and Validity
- (c) Sentence, Proposition and Argument
- (d) Types of Proposition : relation among proposition
- (e) The Concept of Class : Class Membership and
Class Inclusion
- (f) Null Class
- (g) Logical connectives and testing of validity by
means of truth table constants variable
- (h) Paradox of material implications
- (i) Scientific Method : Its basis, causality,
uniformity of nature and paradox of induction

Contd/...

The course on Philosophy of Religion will consist of the following :-

- (a) Towards a definition of religion
- (b) The idea of God : Christianity, Hinduism, Buddhism and Tribal religions
- (c) The Problem of Suffering : Judaism, Christianity, Buddhism and Hinduism
- (d) Salvation : Buddhism, Christianity and Hinduism
- (e) Inter-relationship between religions

Readings

- (a) Abernelling, G.L. : Philosophy of Religion & Langford, T.A (ed)
- ~~(b)~~
- (b) K.Nielson : Introduction to the Philosophy of Religion (Macmillan)
- (c) Smart, N : Religious Experience of Mankind.

Contd/..

B.A .HONOURS COURSE

The B.A .Honours Course in Philosophy should consist of the following Papers :-

Paper I same as Paper I of Pass Course except for the following additional topics :-

Ethical Theories of Moore, Stevenson and Hare.

Readings

Same as Paper I of Pass Course.

Paper II same as paper II of Pass Course except for the following additional topics :-

Theories of Truth, Knowledge of Ourselves and of Others.

Readings

Same as Paper II of Pass Course.

Paper III

Logic or Philosophy of Religion

The Logic course should have the following topics in addition to the topics for the B.A.Pass Logic Course.

Hypothesis and its confirmation. Explanation: Its different forms. Explanations in Natural and Social Sciences.

Readings

Stebbing, S. ; Introduction to Modern Logic
Cohen, M.R.& : Introduction to Logic and
Nagel, E Scientific Method
O'Connor, D.J. & : Symbolic Logic.
Basson, A.H.

The Philosophy of Religion course should have the following additional topics :-

(a) The idea of a tribal religion, (b) Mysticism

Readings

Abernelling, G.L.& : Philosophy of Religion
Langford, T.A. (ed)
Prichard, Evans : Theories of Primitive Religion
Smart, N : Religious Experience of Mankind

Contd/...

PAPER IV

HISTORY OF WESTERN PHILOSOPHY

1. Plato (Theory of Justice and Theory of Knowledge)
2. Descartes (problem and mind-body distinction place of doubt in philosophical thinking; existence of God).
3. Hu : (causality abd self- lentity)
4. Kant (distinction between analytic and synthetic, a priori and a posteriori; possibility of synthetic a priori propositions).

S-pecial study of Plato's Phaedo with reference to Book VI of the Republic.

This Paper should consist of two parts with at least two questions being compulsory from each part.

Readings

- | | |
|--------------------|---|
| (a) F. Copleston | History of Western Philosophy
(relevant volumes) |
| (b) D. J. O'Connor | A Critical History of Western
Philosophy |

PAPER V (Honours)
Philosophy of Mind

1. Philosophy of Mind and Psychology
2. Chief Theories of Mind
3. The Concept of Privacy and Self-knowledge
4. Feeling and Emotion
5. Volition
6. Thought
7. The Unconscious

Readings

- (a) P. Edwards (ed) : Encyclopaedia of Philosophy
(relevant chapters)

PAPER VI (Honours)
History of Indian Philosophy

This course will be as follows :-

- (a) Distinctive features of Indian Philosophy
- (b) Pramanas, Perception, Inference, Verbal Testimony, Comparison
- (c) Causation : Satkaryavada, Asatkaryavada, Vivartavada
- (d) Self and God
- (e) Brahman
- (f) Liberation

Readings

- (a) S. Radhakrishnan : History of Indian Philosophy
Vol. I and II
- (b) C.D. Sharma : A Critical Survey of Indian
Philosophy
- (c) M. Hiriyana : Outlines of Indian Philosophy
- (d) N.V. Bannerjee : Spirit of Indian Philosophy

.....
Contd/.....

- (e) T.M.P.Mahadevan : Invitation to Indian Philosophy
- (f) Daya Krishna : "Three Conceptions of Indian
Philosophy"
Philosophy : East and West,
Jan., 1965
- (g) -do- : "Three Myths of Indian
Philosophy", Diagemes, Vol. 53
Paris.

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ITEM NO. 4

Taken along

To consider items received from the
Department of Economics :

A letter dated 12th June, 1980 from the Department
of Economics is placed at Annexure - V for consideration
of the Academic Council.

- - -

No.Econ: 9-3/79-80/179

June 12, 1980.

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

Dear Sir,

I am enclosing a copy of the minutes of the meeting of the Department held on 26th May, 1980. I would like to draw your kind attention to pages two and three of the minutes where recommendations of the Department regarding the existing examination system are given. The recommendations of the Department on these matters are as follows :-

1. The present system of letter grading may be replaced by numerical grading.
2. The weight assigned to the internal assessment may be reduced from the present 50percent of the total marks to 25 percent. There was also an opinion that internal assessment may be completely abolished and the entire marks may be assigned to the external examination.
3. The examinations may be held annually instead of at the end of each semester. However, teaching may be done course-wise.
4. The M.A. Ordinance may be suitably amended so as to classify the successful candidates in the first, second and third divisions.

These may be kindly placed for the Academic Council's decision.

Yours faithfully,

Sd/- T. Mathew,
Head of the Department

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ITEM NO. 5

Optional Course in Agricultural
Economics, M.A. :

The optional course in Agricultural Economics of the M.A. Programme in Economics is placed at Annexure - VI. The change in the Course on Agricultural Economics has been approved by the Department at its meeting held on 26th June, 1980.

The matter is placed before the Academic Council for approval.

- - -

ECONOMICS OF AGRICULTURE

1. Role of Agriculture in a developing Economy (historical pattern); share in output, investment, employment, revenue, trade, etc.
2. Agricultural statistics in India - coverage, source and reliability.
3. Relationship between agricultural sector and the rest of the economy - movements in terms of trade.
4. Production function analysis in Indian agriculture.
5. Agricultural labour in India-Labour absorption, labour surplus, migration, wages, etc.
6. Trends in growth of agricultural output in India - green revolution and technological change.
7. Institutional structure :
 - (a) Mode of production in Indian agriculture
 - (b) Farm size, return to scale and productivity
 - (c) Size of holdings, marketed surplus and savings.
 - (d) Policies for the growth of the small sector :-
ceilings on land holdings, determination of ceilings, on estimation of surplus land,
legislation, implementation, conditions of success.
8. Agricultural price and distribution policy, agricultural taxation in India, agricultural credit.

Essential Readings

1. C.Eicher & L.Wilt (Ed). : Agriculture in Economic Development
2. American Economic Association : Readings in the Economics of Agriculture
3. Nurul Islam (Ed). : Agricultural Policy in Developing Countries
4. T.W.Schultz : Transforming Traditional Agriculture
5. Tara Shukla : Capital Formation in Indian Agriculture
6. E.Heady & J Dillion : Agricultural Production Functions

Contd/.....

7. J.S.Uppal : Disguised Unemployment in an Underdeveloped Economy
8. P.C.Bansil : Agricultural Statistics in India
9. D.Warriner : Land Reforms in Principle and Practice
10. Nurul Islam (Ed) : Agricultural Policy in Developing Countries
11. A.M.Khusro : Economics of Land Reforms and Farm Size
12. Ministry of Food & Agriculture (Govt. of India) : Agricultural Price Policy in India (by L.F.Herman)
13. Ministry of Finance (Govt. of India) : Report of the Committee on Taxation of Agricultural Wealth and Income
14. Ministry of Food & Agriculture (Govt. of India) : Reports of the Agricultural Prices Commission

Additional Readings

1. S.Kuznets (Ed) : Economic Growth -India, Brazil and Japan
2. -do- : Modern Economic Growth, rate, structure and spread
3. W.A.Lewis : Theory of Economic Growth
4. Clifton Wharton (Ed) : Economic Development in Subsistence and Peasant Agriculture
5. A.Rudra : Relative rates of Growth of agriculture and industry
6. A.M.Khusro (Ed) : Readings in Agricultural Development
7. E.Bosrup : Conditions of Agricultural Progress
8. Indian Society of Agricultural Economies (Ed). : Readings in Agricultural Economics
9. R.S.Ecksus & K.Parikh : Planning for Growth-Multi-Sectoral, Intertemporal models applied to India
10. Krishna Bharadwaj : Production Conditions in Indian Agriculture
11. S.Dasgupta : Agriculture: producer's relationality and technical change

Contd/.....

12. Upton : Agricultural Production Economics and resource use.
13. C. Clerk : Economics of Irrigation
14. G. Sahota : Fertilizer and Economic Development
15. D. Thorner : Land and Labour in India
16. E. C. Edwards (Ed) : Employment in Developing Nations
17. N. Ansari : Economics of Irrigation Rates
18. Paul Duane : Price Policy for Irrigation Rates (World Bank)
19. N. C. A. E. R. : Long term projection of demand for and supply of selected agricultural commodities 1960-61 to 1975-76.
20. C. R. Rao (Ed) : Data base of Indian Economy, Vol. I.
21. S. N. S. Choung : The Theory of Share Tenancy
22. P. C. Joshi : Land Reforms in India - Trends and Perspective
23. W. Froehlich (Ed) : Land Tenure, Industrialisation and Social Stability
24. E. V. Szeepanik (Ed) : Symposium on Economic and Social Problems of the Far East
25. D. Lehmann (Ed) : Agrarian Reform and Agrarian Reformism
26. A. M. Khusro & A. N. Agarwal : The Problem of Cooperative Farming in India
27. M. Dobb : Soviet Economic Development since 1971
28. J. R. Berhrman : Supply response in underdeveloped agriculture
29. Southworth & Johnnton (Ed) : Agricultural development and growth
30. A. M. Khusro : Buffer stocks and storage of food grains in India
31. D. S. Tyagi : Farmer's response to Agricultural prices in India

Contd/....

32. N. Ansari : Economics of Irrigation Rates
33. H.P. Wald : Taxation of Agricultural lands in underdeveloped countries
34. Reserve Bank of India: Report of the All India Rural Credit Review Committee, 1969.
35. D. Narain : Distribution of marketed surplus of agricultural produce by size level of holdings in India 1950-51
36. Uma Lele : Foodgrain marketing in India
37. G. Saini : Farm size, resource use efficiency and income distributions
38. C.H. Hanumantha Rao : Technological change and distribution of gains in Indian agriculture
39. S.L. Shetty : Structural retrogression in Indian economy
40. Ashok Mitra : Term of trade and class relations.

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Item 6 - approved

Item No. 8

Equivalence Committee - Constitution of :

This University is at present having on the rules, regulations and syllabi of various examinations conducted by other Universities/Institutions in India. So that the students who have passed these examinations may be admitted into this University, the Vice-Chancellor has been pleased to constitute the Equivalence Committee, for a term of two years consisting of the undermentioned members, to examine the equivalence of courses and make recommendation from time to time to the Academic Council for consideration and decision.

1. Dr C.L.Amand - Chairman
2. Dr D.P.Singh - Member
3. Dr H.Junjappa - Member
4. Dr T.Mathew - "
5. Prof. D.Saikia - "
6. Two members (having special knowledge of the subject coming before the Committee) to be co-opted later with the approval of the Vice-Chancellor.

The Academic Council may, therefore, be pleased to approve the action taken by the Vice-Chancellor in this respect.

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ITEM NO.8

file wanted
P21 note sheet
of file NO
EX/M.Phil/1951

Exemption of one course in the M.Phil Examination for the three scholars of Geography Department :

The Vice-Chancellor has granted exemption of one course iz., Quantitative Geography in the M.Phil Examination of the undermentioned three scholars of Geography Department. The exemption is due to the fact that the Paper was already completed by them in their M.A. as per recommendation by the Head of the Department concerned, and it was considered not necessary to repeat the same in M.Phil. The M.Phil results is, therefore, being processed exempting the said course.

Name of the scholars -

1. Shri G.P. Bhakta
2. Shri J.S. Chauhan
3. Shri P.G. Momin

The Academic Council may, therefore, approved the action taken by the Vice-Chancellor.

ITEM NO.9

Panels of Examiners for Ph.D. Thesis :

Approved

Box
School of Life Sciences

(1) The Committee for Advance Studies & Research, School of Life Sciences has recommended the panels of examiners to examine the thesis of Shri Bhaskar Neogi and Shri Spenliwell Myrthong and subject to ratification by the Academic Council, the Vice-Chancellor, has appointed the examiners from out of the panel to examine the thesis submitted by Shri Neogi.

The Academic Council may ratify the action taken by the Vice-Chancellor and recommend the panels to the Executive Council for approval.

The panels are not shown to maintain secrecy.

(2) The Vice-Chancellor has approved the panel of examiners approved by CASR for examining the Ph.D. thesis submitted by Shri S.C. Daniel of Philosophy Department.

The Academic Council may kindly ratify the action taken by the Vice-Chancellor and recommend the same to the Executive Council for final approval.

The panel of examiners is not revealed in the agenda to maintain secrecy.

(3) Subject to ratification by the Academic Council and Executive Council, the Vice-Chancellor, has approved the panel of examiners to examine the M.Phil thesis submitted by Shri Sankar Kumar Ghosh of Economics Department.

The Academic Council may, therefore, ratify the action taken by the Vice-Chancellor and recommend the same for final approval by the Executive Council.

The panel is not shown in the agenda to maintain secrecy.

ITEM NO. 10

B.Ed. Examination, 1978 - The case of
a missing answerscript :

The result of Shri Avtar Singh of P.G.T.College, Roll No. 304 of B.Ed. Examination, 1978 was kept withheld on the ground that his Answerscript on the subject "Development and Problem of India" was reported missing on the day of the Examination. Attempts to trace the missing script were made by the Principal but failed. The Vice-Chancellor has, therefore, allowed the candidate to re-appear in the above subject only, in the B.Ed. Examination of 1980, as a very special case.

The Academic Council may, therefore, ratify the action taken by the Vice-Chancellor.

Item No. 11

To consider a panel of Examiners for
Ph.D.Thesis in the Department of
Philosophy:

A handwritten signature in black ink, appearing to be 'M. S. Kumar', written in a cursive style.

The Vice-Chancellor recommended that the panel of Examiners for examining the Ph.D.Thesis of Anju Joshi of Philosophy Department be placed before the Academic Council for its approval.

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

The panel is now shown in the agenda to maintain secrecy, it will be table by the Chair in the meeting.

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Item No. 12

Admission of one subject failed candidates of P.U. into the Degree Course :

The subject indicated was discussed at the 7th meeting of the Academic Council held on 1st September, 1979 which considered as under:

"Resolved that the present practice of permitting the PU failed candidates of the University to take admission to Degree classes be discontinued with effect from the academic session beginning in 1980".

Accordingly, the University has informed to all the colleges concerned vide letter No.EX/2-Yr/Ad/78-80/1332 dated 9th May, 1980 (Annexure - VII) for taking necessary action. Later on it is found that the above resolution does not indicate the time of application which should not affect the category of students who were once regulated under this University's Notification No.E.1/Con/75-76/185/379 dated 15th July, 1975 (Annexure - VIII). To avoid serious lapses due to sudden switch-over at the middle of its continuous course, a Notification No.EX.2/Yr/Ad/78-80/3314-54 dated 9th July, 1980 (Annexure - IX) had to be issued as an amendment to the earlier one.

Hence, the matter is placed before the Council for its ratification.

ratified

NORTH-EASTERN HILL UNIVERSITY
Shillong - 793 001

No.Ex/2/Yr/Ad/78-80/1332 Dated, 9th May, 1980

To

The Principal of all Affiliated Colleges
of the NEIU.

Sub:- Admission of one subject failed candidates of
PU into the Degree Course.

Sir/Madam,

With reference to the above, I am directed to
furnish below the resolution of the Academic Council
of this University at the meeting held on 1.9.79 for
favour of information and necessary action with
effect from the academic session, beginning in 1980.

AC:7:79:26 - "Resolved that the present practice
of permitting the PU failed candidates
of the University to take admission to
Degree classes be discontinued with
effect from the academic session
beginning in 1980".

The above resolution has a reference to the
benefit granted to those one subject failed candidates
at the first appearance of the P.U. Exam. for
admission into the 1st year class of the Degree Course
vide this University letter No. E.1/Con/75-76/185/379
dt. 15.7.75.

Kindly acknowledge receipt.

Yours faithfully,

Sd/- S. Rynjah,
Asstt. Registrar (Exam)

Copy for information to :-

1. All officers of the NEIU.
2. D.P.I. (Meghalaya), Shillong.
3. Director of Education, Nagaland, Kohima.
4. Director of Education, Mizoram, Aizawl.
5. Director of Publicity & Information, Megh./Nagaland/
Mizoram.
6. Notice Board.
7. Private Assistant to Registrar.

NORTH EASTERN HILLUNIVERSITY :: SHILLONG::793001

No.E.1/Con/75-76/185/379 Dated Shillong, the 15th July/75/

To

The Principals of all affiliated colleges
of the N.E.H.U.

Sir/Madam,

Sub:- Two-year P.U.Examination failed candidates
- Relief measures ordered provisionally.

Representations have been received from the students who have failed in the two-year P.U.(Arts/Science/Commerce) Examination and also from the guardians of such students requesting that the Compartmental Scheme may be introduced for the P.U.(Arts/Science/Commerce) examinations with a view to afford some academic relief to those failed candidates. After thoroughly examining all aspects of the issues involved, the Vice-Chancellor has now provisionally ordered, subject to ratification by the appropriate authorities, that with effect from the P.U. examination of 1976 the candidates who have failed in the P.U. examinations of the previous years, and re-appearing at that examination in 1976 and/or thereafter need appear only in all the papers (both theory and practical where practical is also involved) of the subject(s) in which they have not passed. They will not be required to appear for the subjects in which they have already passed. The Ordinances pertaining to the above examinations shall be suitably amended for the purpose.

The students, passing under the Compartmental Scheme, as mentioned above, shall be declared to have secured only 'Simple Pass' whatever might be the aggregate marks scored by them. But, those candidates who want to appear for the whole examination may do so; and they shall be eligible to be placed in the appropriate division (class), depending on the aggregate marks secured by them at that appearance.

It has also been provisionally ordered by the Vice-Chancellor, subject to ratification by the appropriate authorities, that such of those students who have/pass only one subject of the two-year P.U. (Arts/Science/Commerce) examination shall be eligible for admission into the 1st year class of the two-year B.A./B.Sc./B.Com (Pass Course) respectively, at the

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discretion of the Principal of the affiliated college concerned, with effect from the current academic year (1975-76). Such students shall be allowed to appear for their final degree examination only after passing all subjects of the P.U. examinations.

Receipt of this communication may kindly be acknowledged.

Yours faithfully,

Sd/- C.C.David
Officer on Special Duty
(Affiliations & Examinations)

Copy for information to :-

1. All Officers of the NEMU.
2. The Director of Public Instruction (Meghalaya) Shillong.
3. The Director of Education, Nagaland, Kohima.
4. The Director of Education, Mizoram, Aizawl.
5. The Director of Publicity & Information, Meghalaya/
Nagaland/Mizoram
6. The OSD, NEMU Campus, Kohima, Nagaland.
7. Notice Boards.

NORTH-EASTERN HILL UNIVERSITY
SHILLONG-793001

No.Ex/2-Yr/Ad/78/80/3314-54

Dated 9th July, 1980

To

The Principals of all affiliated Colleges
of the North Eastern Hill University.

Sub:- Admission of one subject failed
candidates of P.U. into the
Degree Courses.

Ref:- This office letter No.Ex/2Yr/Ad/
78-80/1332 dated 9th May, 1980

Sir/Madam,

For further clarification of the Academic Resolution
forwarded under this office letter referred to above, the resolu-
tion will be made applicable to those batch of students who will
be seeking admission into the First Year of the Pre-University
classes of 1980-81 Session onwards.

Yours faithfully

Sd/-(Mrs.S.Rynjah)
Assistant Registrar(Exams)

Copy for information to :-

1. All Officers of the NEHU.
2. D.P.I.(Meghalaya), Shillong.
3. Director of Education, Nagaland, KOHIMA.
4. Director of Education, Mizoram, AIZAWL.
5. Director of Publicity & Information, Meghalaya/Nagaland/
Mizoram.
6. P.A. to Registrn
7. Notice Board.

ITEM NO13

Anomalies relating to conduction of
University Examinations, 1980 :

A letter dated 20th August, 1980, from Dr I?U.Ahmed,
Member, Academic Council is placed at Annexure - X for
consideration of the Council.

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Annexure - X

From : Dr I U Ahmed
Member, Academic Council, NEHU,
Science College,
Kohima, Nagaland

Dt. Kohima, the 20th August, 1980.

To

The Registrar,
NEHU, Shillong,
Meghalaya

Sub:- Agenda for Academic Council - meeting -
Anomalies relating to conduction of
University examinations, 1980.

Sir,

Members of the teaching faculty of this college have expressed their views regarding various anomalies in the conduction of examinations by the NEHU. These pertain to question paper setting, moderation, appointment of external examiners and maintenance of secrecy in confidential matters.

NEHU, being a new University, should make all out efforts to bring in uniformity and credibility in examination matters. I may, therefore, request you kindly to include this item in the agenda of the forthcoming Academic Council meeting so that the subject could be discussed thoroughly and follow up measures adopted.

Yours faithfully,
Sd/- I. U. Ahmed
Member, Academic Council,
NEHU

Copy to :

The P.S. to the Vice-Chancellor,
NEHU, Shillong, for favour of information
to the Vice-Chancellor.

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Item No. 14

Request on humanitarian consideration considered
not accepted

Admission to the 2nd year of the Two-Year Degree Course :

The University has received several requests from parents and guardians of students who were reading in colleges affiliated to the Gauhati University for admission to the 2nd Year of the Two-Year Degree Course. The requests have been made in view of the fact that due to the recent movement in Assam the academic work of the Gauhati University has come to a stand-still and students who were due to appear for their final examination in 1980 could not do so although they have completed their course work for two years. It may be stated in this connection that the students have already lost one complete academic year due to the prolonged movement in Assam.

In our Ordinance relating to the admission of students to any course of study in this University on migration from another recognised University/Board and on transfer from other affiliated Colleges and enrolment, as such Clause 1(ii) provides as follows:

"Provided also that the application of a student who has not completed his course of study and has not appeared at the examination for which he was reading in any other recognised University or Board in India shall be considered for admission to the University if the course pattern and syllabi of the University or Board from which the student is migrating are similar to that of this University."

There is, therefore, no bar for admitting a student in the middle of the course migrating from any other recognised University. The Academic Council approved the regulations and syllabi of the Gauhati University for the Degree Course in 1975. Although, there has been slight revision in the

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syllabi, the course pattern inclusive of syllabi is not very different from that which is followed in Gauhati University. If students who desire admission in this University take admission at their own risk, the University may perhaps consider such migrations.

The matter is, therefore, placed before the Council for consideration.

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Item No. 15

Guidelines for sanction of grant for support of publications of learned research papers/thesis :

In view of the fact that the University has been teaching several subjects which are specially related to the North Eastern region and also in view of the fact that not enough published materials are available for consultation and reading on these subjects, the University would make available suitable funds to individual teachers to enable them to publish their research papers/thesis if the same is useful for the above noted purpose and is recommended for publication by the respective Heads of Departments/Boards of Post-Graduate Studies.

The grant would be made available on the following terms and conditions:

1. To ensure high academic standard, the manuscript would be reviewed by a Committee consisting of the Dean of the School concerned, the Head of the Department and one expert in the field of specialisation in which the research has been made;
2. The fund would be a rotating fund and would not be an outright grant. This would mean that the teachers applying for sanction of such funds will have to enter into an agreement with the University that if funds are made available for publication of the research papers/thesis, the teacher concerned would agree that the royalty paid by the publisher would be credited to the University;
3. Applications for sanction of fund will have to be submitted through the Head of the Department to the Vice-Chancellor. The Head of the Department while forwarding the application must take into consideration the usefulness of the research publication/thesis in so far as the teaching work of his Department is concerned;

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4. Repetative publications would not be considered for sanction of funds;
5. The University would follow the Copy-right Act for deciding the question of Copy-right of the work approved for the publication grant.
6. The author will have to take appropriate care for making proper editing of the research paper/thesis for publication;
7. The amount of subsidy for publication would be limited to Rs 3,000;
8. The author will have to arrange for publication of his work directly with any publishing house of repute. The University would pay the amount of subsidy directly to the publishing house. The publishing house will have to enter into a contract with the University in so far as the payment of royalty and Copy-right are concerned.

The matter is placed before the Council for consideration.

ItemNo. 16

Opening of Evening Shift in Lunglei College,
Mizoram :

Approved

Principal of Lunglei College applied for permission to open evening shift in that college. Dr K. J. Joseph, Reader of Education Department, Dr D.P. Singh, Professor in English Department and Dr R.K. Rai, Reader in Geography Department inspected the college on 23rd February, 1980. As many persons could not afford to attend the regular day class due to poverty there was a demand for the evening shift, so that employees may attend the evening classes while working during the day. The Principal of Lunglei College submitted basic informations about Lunglei College for starting evening shift. In this connection, it may be pointed out that while the Vice-Chancellor visited Mizawl in the month of August, 1980, students representatives approached him to give permission to start Evening Shift to Lunglei College. The Vice-Chancellor discussed the matter with the Education Minister of Mizoram. He had been informed that Mizoram Government was keen to open the evening shift in Lunglei College.

The report of the Inspection Commission is placed before the Academic Council for its consideration.
(Annexure - XIX).

Annexure - XI

Report of the Inspection of Lunglei
Government College on 23.2.1980

We, the undersigned, inspected the Lunglei Government College, Mizoram on 23rd February, 1980 to examine the feasibility of starting evening classes for which the college has sought affiliation to the North-Eastern Hill University.

Lunglei being a District headquarters, the number of Government employees seeking admission to the evening shift to improve their qualifications and enhance their prospect is likely to be considerable. We, therefore, recommend that the evening shift be granted temporary affiliation on fulfilment of the following conditions.

1. The premises of the college are used for the evening shift without dislocation of the regular classes.
2. The students who join the evening shift are allowed to utilise the existing library facilities.
3. Till such time^{as} the college has a separate staff for the evening shift, the regular staff of the college is employed to teach in the evening classes as part-time teachers and the Government of Mizoram agrees to grant extra allowances to the teachers concerned.
4. The Government agrees to provide adequate funds for the establishment of the evening shift.
5. The evening shift runs on a temporary basis till such time as the Government is in position to develop it into a separate and full-fledged college.

S d/-
R. K. Rai

Sd/-
D. P. Singh

Members, NEHU Inspection Team for Saiha College
and Lunglei Government College.

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Report of Inspection of Lunglei College

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The Lunglei College had requested affiliation of night shift for Pre-University and B.A. The commission visited the college on 23rd February 1980 at 10 a.m.

The Lunglei College was established in 1964 and was taken over by the Government in 1976. At present it offers English and Lushai as languages, history, political science, economics and geography in the arts groups and physics, chemistry, mathematics, biology and geography in the science stream. It had honours courses in economics and political science. In the Pre-University course it has an enrolment of 258 in the arts stream and 34 in the science stream. There are 36 students in the B.A. first year and 13 in the B.A. second year.

The College is situated close to the town and it has an excellent location in terms of accessibility. The College has plans to increase the available accommodation. The College also has a hostel for boys with 14 seats. The College shares the water scarcity with the rest of the town.

The College has a faculty of 21 lecturers. Generally the average workload of a teacher per week was found to be 12 to 13 periods. This indicates that there is spare capacity of staff which could be engaged in providing more teaching.

The request of the college to permit affiliation of the night shift in which the existing faculty will teach in additional shift on payment of a special allowance is a proposal which needs consideration in the light of the policy issues involved. With the introduction of the UGC pay scales which is applicable to teachers in Lunglei College also permission is never granted for teachers to teach in a second shift. However, in this region due to a provision existing in the Gauhati Ordinance night shift was started in many colleges

Contd/...

with teachers teaching in this manner. Even then, with the introduction of the UGC pay scales the University is liable to correct this deviation.

Even though the University may not permit a second shift in the same college to be taught by the same set of teachers it may be worth while to explore ways and means of making available the benefits of college education to those who cannot avail it on a full-time basis. By re-allocating teaching work it should be possible to free some of the teachers so that they can work in a part-time programme. This could also be possible by allocation of work in such a way that teachers need not be present more than the normal duration even though he may teach in a second shift also. However, all this can be done only if the University designs special P.U. and degree programme for Part-time students. Such a programme for part time students can be of longer duration than the regular one and if it could be organised on semester and credit basis it would provide enough flexibility for employed persons to take them.

The Commission suggested to the Principal that before further steps are taken in this matter he may perhaps make a proper assessment of the demand for such a programme. For this it was proposed that he should publicise the proposal to open a part time programme and request intending candidates to register themselves. The Commission learnt that the Principal has already started this and that the candidates are being registered now. It may be stressed that the University should give all encouragement to institutions like this which try to make education available to a clientele outside regular students. We may now take steps to design a suitable programme as early as possible.

Sd/- K.J. Joseph

Contd/...

see with item 15 of m/199.

**Duties and functions of the Committee for
Advanced Studies vis-a-vis- Board of
Post-Graduate Studies :**

The University has two academic authorities, duties and functions of which are alike. These are - the Board of Post-Graduate Studies which is a statutory authority and the Committee for Advanced Studies which has been created under Section 26(m) of the NEHU Act, read with Statute 18(3) of the first Schedule of the NEHU Act, 1973 which are quoted below:

Clause 26(m) of the Act

"The creation, composition and functions of any other Body which is considered necessary for improving the academic life of the University:"

Statute 18(3) of the First Schedule
of the NEHU Act

"The functions of the Board of Post-Graduate Studies shall be to approve subject for research for various Degrees and other requirements of research degrees and to recommend to the concerned School Board in the manner prescribed by the Ordinances".

In interpreting the above two provisions of the Act and Statutes, it appears that the creation of the Committee for Advanced Studies was not necessary in the first instance. The functions of the Committee for Advanced Studies could easily have been included in the functions of the Board of Post-Graduate Studies. The University is in difficulty at present as each can pass through the Board of Post-Graduate Studies and then through the Committee for Advanced Studies, is taking a long time for processing. Thereafter the recommendations of the Committee for Advanced Studies are submitted to the Board of the School concerned. As a result all actions are delayed.

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It is, therefore, proposed for favour of consideration that the Academic Council may perhaps be requested to abolish the Committee for Advanced Studies and delegate all its functions to the Board of Post-Graduate Studies. In doing so, it will be necessary to amend the respective provisions of the Ordinances wherein it is provided that all recommendations etc are to be routed through the Committee for Advanced Studies.

Moreover, there are certain provisions in the Ordinances relating to the Master of Philosophy Degree programme and Degree of Doctor of Philosophy programme wherein the Committee for Advanced Studies has been given certain functions. These Ordinances also will have to include only the Board of Post-Graduate Studies in place of Committee for Advanced Studies.

It is, therefore, further proposed that if the Academic Council agrees to abolish the Committee for Advanced Studies, the Council may also be requested to resolve that all Ordinances in which the name of Committee for Advanced Studies appear for any functions should be deleted and the name of the Board of Post-Graduate Studies only should be inserted.

The matter is, therefore, pleased before the Council for consideration.

Item No. 18

Common course on North-Eastern Region
of India in the School of Social
Sciences :

At a meeting of all Professors and Heads of Departments in the School of Social Sciences held on 3rd September, 1980, chaired by Prof. T. Mathew, Dean of the School, it was decided that a common course on North-Eastern Region of India be offered on an inter-departmental basis in all the departments under the School of Social Sciences. A sub-committee with Dr(Mrs.) S. Miri was constituted to work out the details of the course to be offered. The consensus at the meeting was that the Course could be offered from the beginning of the academic year 1980-81.

It has also been proposed that the Board of the School may be empowered to finalise the contents, etc., of the course, subject to approval at the next meeting of the Academic Council, so that the course may be introduced from the beginning of this semester.

The matter is placed before the Academic Council for information.

Item No.19

University College in Meghalaya :

A letter dated September 4, 1980 from Shri H.W. Sten, Member, Academic Council is placed at Annexure - **XII** along with a draft resolution.

The matter is placed for consideration of the Academic Council.

H.W.Sten,
Member, Academic Council, NEMU

Shillong,
September 4, 1980.

To

The Vice-Chancellor
NEMU,
Shillong-

Dear Sir,

I request your honour to kindly consider inclusion of the following draft resolution in the agenda for the Academic Council meeting to be held on the 12th of this month.

Yours faithfully,

Sd/- H.W.Sten

Draft Resolution

1. WHEREAS Section 5(14) of the North-Eastern Hill University Act, 1973, empowers this University "to establish and maintain colleges, institutions and Halls" in the area of jurisdiction; and whereas Shillong the capital of Meghalaya does not have either a Government college or University college, this Academic Council meeting today, the 12th September, 1980 resolves to request the Vice-Chancellor and the appropriate bodies of the University to establish its own college or take over one of the existing colleges at Shillong for the interest and welfare of the students of Meghalaya,

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Item No. 20

To consider constitution of the Board of Under-Graduate Studies in Sociology and amendment of Academic Ordinance :

At its meeting held on 12th May, 1979 the Academic Council vide resolution No.AC:6:79:2(1) "resolved that a separate Department of Anthropology be started by separating it from the existing Department of Sociology and Anthropology as soon as feasible."

While action on this matter is at hand, the Council may amend the Academic Ordinance on assignment of Department to the Schools of Studies to read as follows:

"2.1 The School of Social Sciences

1. Department of Economics
2. Department of History
3. Department of Philosophy
4. Department of Political Science
5. Department of Sociology
6. Department of Anthropology

The present Department of Sociology and Anthropology has proposed the following names to constitute the Board of Under-Graduate Studies in Sociology.

1. A.P.Sinha, Head of the Department of Sociology & Anthropology, NEHU, Shillong (Ex-officio Chairman)
2. Prof. of the Department (Vacant).
3. Dr A.C.Sinha, Reader, Department of Sociology & Anthropology, NEHU, Shillong - Member
4. Dr V. Xaxa, Lecturer, Department of Sociology & Anthropology, NEHU, Shillong - Member.
5. Mrs. Phukon, Lecturer, Department of Education, St. Mary's College, Shillong - Member.

Contd/...

6. G. Monglow, Lecturer, St. Anthony's College, Department of Political Science Shillong - Member.
7. Prof. I. Yangar, Principal, Fazl Ali College, Kokokchung, Nagaland - Member.
8. Mr. M.Saha, Science College, Nagaland - Member.
9. Prof. Rokomlova, Principal Aizawl College, Mizoram - Member.
10. Dr D.Doley, Department of Sociology, Dibrugarh University, Dibrugarh - Member.
11. Dr U.M.Jha, Head, Department of Sociology, L.M.Mithila University, Dharbbanga, Bihar - Member.

As Sociology is not taught in any affiliated college in NEMU, the names of teachers from allied disciplines have been suggested.

The matter is placed before the Academic Council for consideration.

Item No. 21

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 is placed before the Academic Council for consideration.

Item No.22

Permission to open Honours Classes in
the Departments of English and History
at Aizawl College :

The following is the representation dated 9th September, 1980 received from the President, the Aizawl College Teachers' Association which is placed before the Council for its consideration:

"We have the honour to lay the following few lines of representation, in respect of permission for opening Honours classes in the Departments of English and History, for your kind consideration.

The Aizawl College has been allowed to open Honours in the departments of Political Science and Economics from the session 1978-79. The session 1979-80 marked the entry of the first batch of Honours in these departments into University examinations, the results of which has the effect of enhancing our confidence. Considering the progress made so far by our college we believe that it is not too early to extend facilities of Honours to the departments of English and History. At present the college has the minimum strength of teaching staff in these two departments respectively of six and four, which we believe meet the minimum strength in number required under rules.

We, therefore, earnestly pray you to grant the Aizawl College permission to open Honours in the departments of English and History from the session 1980-81. We hope this humble prayer will be met with your kind approval.

Item No. 23

To consider proposal from Pachhunga
University College :

Two letters from Pachhunga University
College, Aizawl requesting for permission to
introduce Honours Course in Botany and Zoology
are placed at Annexures XIII and XIV.

Annexure - XIII

To

Dt. 8.9.80.

The Vice-Chancellor,
North-Eastern Hill University,
Shillong - 793001.

Through the Principal, Pachhunga University
College, Aizawl.

Sub - Application for opening Honours Class in the
Department of Botany, Pachhunga University
College.

Sir,

With reference to the above subject, I beg to
submit the following few lines for favour of your kind
consideration and favourable decision.

That Sir, the Pachhunga University College has
been running B.Sc. (Pass Course) for four years and has
produced two batches of students in the University
Examination. The results of our students were also
quite commendable.

Further, the number of students enrolled for B.Sc.
increases considerably and it is our feeling that Honours
course in at least some of the subjects must be started
at once. The need for Science graduates in the region is
apparent and since this college is the only college in
the region with facilities for B.Sc. class to open
Honours class is considered necessary both by students
and teachers.

I, therefore, request you to kindly grant permission
to open Honours class in the Deptt. of Botany at the
earliest convenient. The strength of teacher and
student enrolment is attached herewith.

Yours faithfully,

Sd/- C. Lalrayma
Lecturer,
Department of Botany,
Pachhunga University College,
Aizawl, Mizoram.

Forwarded

Sd/- Illegible,
8/8/80

Principal,
Pachhunga University College
Aizawl, Mizoram

Present No. of Teacher	Addl. No. of Teacher require	No. of students in 2Yr. B.Sc.1980	No. of students in 1st Yr. B.Sc. 1980	No. of students in II PUC 1980	No. of students in I PUC 1980
2	3	10	19	114	130

Sd/- C.Lalrawma.
8/9/80

To

The Vice-Chancellor,
North-Eastern Hill University,
Shillong - 793001.

Through the Principal, Pachhunga University College, Aizawl.

Subject:- Opening of Honours classes in Zoology from
1981-82 session.

Sir,

With reference to the above subject I have the honour to state the following few lines in order that we may start honours course in the Deptt. of Zoology, Pachhunga University College.

Sir, you will be aware that the results of Pachhunga University College are quite satisfactory and this is more so in Science with 100% pass percentage in this year results. Presently the college has been running 4 years with Pass Course in different Science subjects. As the number of the students increases year by year, the college is fit enough to open honours Course in Zoology. Besides there is a demand from the students side too to open Honours course in Zoology and Botany.

Following this I would like to put into your notice that the Deptt. of Zoology is under staff with two Lecturers only at present without demonstrators or Lab. Technicians. As per the University Rules and Regulations, the number of teachers in Honours subjects should be 5 (five) as the basic minimum.

I, therefore, request you kindly to see the matter to implement all the facilities so that Honours course may be opened in Zoology from 1981-82 session.

The chronology of the Department condition is attached herewith for your reference for opening Honours course in the Department.

Yours faithfully,

Sd/- C.Thanthianga
Head, Deptt. of Zoology,
Pachhunga University College,
Aizawl, Mizoram

Forwarded,
Sd/- Illegible,
Principal,
Pachhunga University College,
Aizawl, Mizoram

Present No. of Teacher	Adml.No. of Teacher Require	No. of students in 2Yr. B.Sc. 1980	No. of students in 1st Yr. B.Sc.1980	No. of students in II PUC '1980	No. of students in I PUC 1980
2	3	10	19	114	130

Item No. 24

To consider the report of the Committee appointed by the Vice-Chancellor on the various aspects of the Research Degree Programme :

At a meeting of the Heads of Departments held on 7th August, 1980, the Vice-Chancellor appointed a Two-Man Committee consisting of Prof. P.S.Ramakrishnan, Head, Department of Botany and Prof. M.Miri, Head, Department of Philosophy to report on the various aspects of the Research Degree Programme in the University. The report of the Committee is placed at Annexure - XV for consideration of the Academic Council.

Report of the Committee on Research Programme in
the University.

. . .

A. Difficulties with relevant Ordinances

I.(i) Academic Ordinance No.13 (Ph.D)

Clause 1 of this Ordinance says : "A candidate who has been admitted to the M.Phil Programme of this University in the subject in which the candidate proposes to pursue the course of research or in an allied subject, and secures at least an "A" grade or 60% marks in the first semester examination may be admitted as a candidate to the degree of Ph.D".

Comments

(i) The Ordinance, as it stands, rules out the possibility of anyone who might have completed his M.Phil in this University seeking admission to the Ph.D. programme except when he happens to have secured an 'A' grade in his first semester M.Phil examination. This is unreasonable on account of the following considerations: (a) A candidate with a grade lower than A in his first semester examination might go on to write a dissertation on the basis of which he gets an overall grade in M.Phil higher than B.

(b) A candidate who secures an A grade in the first semester examination and decides to complete his M.Phil might write a much poorer thesis than the candidate envisaged in (a), and consequently get an overall grade less than A. The Ordinance allows for the possibility of the second candidate being admitted to Ph.D. but not the first. And this will be unfair because, after all it is the dissertation that reflects the candidate's capacity for research, and M.Phil is a research degree.

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(ii) The Ordinance does not envisage the possibility that a candidate securing an A grade in the first semester examination of the M.Phil programme might wish to complete his M.Phil instead of seeking admission as a candidate for the Ph.D. degree. Presumably this would be allowed, and after completing his M.Phil he may seek admission to Ph.D. However, what happens if the candidate fails to complete his M.Phil within the time-limit prescribed for this programme. It seems as though it would be possible for him to abandon his M.Phil programme and seek, on the basis of his A grade in the first semester examination, admission to the Ph.D. programme. And this will not be desirable.

(iii) Since the M.Phil is a research degree, and meant primarily for assessing the suitability of a candidate for further research and for preparing him for such research, it is somewhat odd that the Ordinance allows for the possibility of a candidate being admitted to the Ph.D. programme without his having undertaken the "research" part of the M.Phil programme.

Suggested amendment to Academic Ordinance
No.13:1

This Ordinance might, therefore, be amended to read as follows: "A candidate who has successfully completed the M.Phil programme of this University in the subject in which the candidate proposes to pursue the course of research or in an allied subject, and secures a B grade with a grade point average of 4.00 or a higher grade (or 55% marks or more) may be admitted as a candidate for the Ph.D. degree. However, a candidate who, after completing his course-work for the M.Phil programme, goes on to show, in the opinion of the Department concerned, outstanding ability for research, may, on the recommendation

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of the Department, be directly (without/^{his}having to complete the M.Phil programme) admitted as a candidate for the Ph.D."

I. (ii) Academic Ordinance No. 13:4 says : "Notwithstanding what/^{is/}provided in Ordinance 13:1 above, a scholar may be admitted as a candidate to the degree of Ph.D. on the completion of and satisfactory performance in the course or courses specially prescribed by the Department. In such cases the courses prescribed shall be approved by the Committee for Advanced Study and Research on the recommendation of the Department concerned and should include written tests comparable in standard to the examinations in the courses specified in 13:1 above. The tests shall in each case be prescribed and conducted by the Department concerned."

Comments

(i) This refers presumably to the much talked about Pre-Ph.D. programme. Such a clause is necessary because a particular department might not for technical or other reasons be wanting to commence the M.Phil programme but yet wish, quite justifiably, to have a research programme leading to the Ph.D. degree.

(ii) However, it is only fair that the programme envisaged in this clause must be seen to be equivalent in content and spirit to the M.Phil programme.

Suggested amendment to Ordinance 13:4

Ordinance 13:4 should be amended to read as follows: "Notwithstanding what is provided in in Ordinance 13:1 a student may be admitted as a candidate for the Ph.D. degree on the completion of and satisfactory performance in a programme of study

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specially prescribed by the Department. Such a programme will normally be spread over a period of two semesters, but shall in no case exceed four semesters. The course of study prescribed for such a programme shall be approved by the Committee for Advanced Studies and Research on the recommendation of the Department concerned and shall include course work with written tests comparable in standard to the semester examinations in the M.Phil programme and similarly comparable research work. A candidate who secures a B grade with a grade point average of 4.00 or a higher grade (or 55% marks and above) in this programme will be eligible for admission to the Ph.D. programme. The tests and manner of evaluation of the research work shall, in each case, be prescribed by the Department concerned and approved by the Committee for Advanced Study and Research. However, a candidate who after having successfully completed the course work for the programme, goes on to show, in the opinion of the Department concerned outstanding ability for research may on the recommendation of the Department, be directly (without having to complete the programme) admitted to the Ph.D. programme".

I. (iii) Ordinance 13:7 says; "(a) The name of a candidate shall be removed from the rolls of the University, if he fails to submit his thesis within four years of the date of his confirmation.

(b) The Committee for Advanced Study and Research, on the recommendation of the concerned Board of Post-Graduate Studies of the Department may, however, extend the registration of the candidate at his request, provided that he is required to submit his thesis not later than the expiry of one year from the date of reenrolment".

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Comments

Should a candidate, who fails to submit his dissertation before the expiry of five years after his registration as a candidate for the Ph.D. degree, be allowed fresh registration? It seems only fair that he should. But in such an event the candidate, according to the provision of Ordinance 13:6, will be debarred from submitting his thesis before the expiry of at least another two years after the fresh registration. And this might, in many cases, be unfair, because after having already worked for five years on his dissertation, a candidate may be in a position to submit it much before the expiry of the required two years.

Suggested amendment to Ordinance 13:7

This Ordinance should be amended to include another sub-clause (c) which might read as follows:

13:7 "(c) If a candidate fails to submit his thesis before the end of the period mentioned in (b) above, he may, on the recommendation of the Department concerned, be permitted to be re-registered as a candidate for the degree. After such re-registration the candidate may submit his thesis at any time during the two years following the re-registration but not later".

I. (iv) Ordinance 13:3 (b): "If the Committee is so satisfied, it may, subject to confirmation by the Board of School, admit the candidate provisionally as a candidate to the Ph.D. degree and at the appropriate time appoint, on the recommendation of the Department concerned, a teacher of the University as a Supervisor to guide and supervise the work of the candidate.

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Provided that the Committee for Advanced Study and Research may, on the recommendation of the concerned Board of Post-Graduate Studies appoint a group of two or three Supervisors from the related areas for which the scholar registered for interdisciplinary topic to guide and supervise the work of the candidate."

Comments

(i) Para 2 of this sub-clause of Ordinance 13:3 envisaged the possibility of the appointment of more than one Supervisor for a candidate only when the candidate's proposed topic of research is of an "Interdisciplinary" nature. However, it is possible that even in cases where the topic of research is not of an interdisciplinary nature, it may be advisable, for various reasons, that the candidate in question have more than one person to guide his research.

(ii) In cases where it is thought advisable that more than one person should guide a candidate's research, it should not be necessary that all of them should be teachers of this University (as required in para 1 of the clause).

(iii) Where more than one guide is thought advisable, one of them should be designated the "Supervisor" and the others as either Joint Supervisors or Consultants. The Supervisor should be in-charge of the overall supervision of the research work and should be a teacher of this University.

(iv) There is also no provision, in this clause, for the following contingency : A teacher who has supervised a candidate for a considerable time (say, three years)

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may cease to be teacher of the University. To appoint another Supervisor for the candidate at this stage may be unfair for both the candidate and the new Supervisor. There should, therefore be provision for retaining a person as a Supervisor even after he has ceased to be a teacher of the University.

Suggested amendment to 13:3 (b)

Para 2 of 13:3 (b) should be amended to read as follows: "Provided that the Committee for Advanced Study and Research may, on the recommendation of the concerned Board of Post-Graduate Studies, appoint, in addition to a Supervisor, one of two Joint Supervisors or Consultants, to guide the work of the candidate. In such a case, the Supervisor shall be in overall charge of the supervision of the candidate's work, and shall as provided in para 1 of this clause, be a teacher of this University. Joint Supervisors or Consultants need not necessarily be teachers of this University. In the event of a Joint Supervisor or a Consultant being from outside this University, he should be a person officially recognised through appropriate procedures for this purpose, by the University."

There should be a further para to clause 13:3 (b) corresponding to comment (iv) above. This may read as follows:

"Notwithstanding what has been said in the above two paragraphs, if a teacher of this University who has supervised the research of a candidate for at least one ceases to be a teacher of this University, he may, on the recommendation of the Department concerned, be retained as the candidate's Supervisor for the remaining period of his research.

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I(v) Ordinance 13:22 makes special provision for employees of this University and teachers of colleges affiliated to this University.

Comments

(i) No special provision should waive the two-year residence requirement for the degree.

(ii) Such special provision should also be extended to persons who might have taken the M.Phil degree of another University, or who might have done successfully research in a research laboratory.

(iii) Employees of this University should not enjoy the privilege of this special provision.

Suggested Amendment to 13:22

The clause may be amended to read as follows:

"Notwithstanding what is provided in 13:1 and 13:4 above, the categories of persons mentioned below may, on the recommendation of the department concerned and the Committee for Advanced Study, be permitted to be registered directly (without having to take either the M.Phil or the Pre-Ph.D. programme) for the Ph. D. programme: (i) Teachers of Colleges affiliated to this University, who have a minimum of three years of teaching experience (ii) persons who have taken the M.Phil degree from another University recognized by this University and have secured at least B grade with a grade-point-average of 4.00 (or 55% marks) in the M.Phil examination and (iii) persons who have completed at least three years of research in a research laboratory."

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A. I(vi) Academic Ordinance 12 (M.Phil)

This Ordinance is inconsistent with Ordinance 13 (Ph.D), as it stands. The contradiction is quite apparent even in the first paragraphs of the two Ordinances. However, the major contradictions will be removed with the acceptance of the suggested amendments to Ordinance 13.

However, Ordinance 12 would still seem to need the following amendments.

(1) The clause entitled "OBJECTIVE" might be amended to read as follows: "The M.Phil degree will be the first research degree of the University. This degree will be considered as a minimum requirement for a fresh Master's degree holder for undertaking further research leading to the Ph.D. degree. This will, however, be subject to the provisions of Academic Ordinance 13, clause 1 and 4 (as amended)".

(ii) The last sentence of the clause entitled "EVALUATION" should be amended to read as follows: "Candidates who secure a B grade with a grade point average of 4.00 or a higher grade (or 55% marks or above) may be allowed to proceed for works towards the Ph.D. degree." Also the following sentence should be added to this clause: "Provided that a candidate who has submitted his M.Phil dissertation and is awaiting the examiner's reports on it, may, on the recommendation of the Department, be provisionally allowed to continue his research in the Department."

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B.I. a) Junior Research Fellowships

The present rules for the award of Junior Research Fellowships do not expressly link the Fellowships with any research degree of the University. This, to my mind, is wrong, because the Fellowships are awarded to Fresh Master's degree holders for research within the framework of the University; and, at this stage, the University admits only such people for research as would work for a research degree. The rule for JRF should therefore be changed so that such fellowships are explicitly linked with the official research programme of the University.

Suggested amendments to the Rules for the Award of JRF.

Clause 4 ("Conditions of the Award") should be amended to read as follows :

✓ "(A) The Fellowship is tenable at North-Eastern Hill University".

"(B) The Fellow shall be attached to any of the Academic Departments of the University doing full time research leading to any of the research degrees of the University."

✓ "(C) The Fellow shall not accept or hold any appointment paid or otherwise or receive any emoluments, salary, stipends, etc., from any other source during the tenure of the award. The Fellow may be required to undertake upto four hours of teaching assignment per week, e.g. assisting in tutorials, evaluation of test scripts, laboratory demonstration work etc.

✓ "(D) If a Fellow wishes to leave the Fellowship before the end of the tenure it should be done with the prior approval of the University. He should also obtain prior permission of the

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University for applying for any post or appearing for any interview or at any examination conducted by the any univeersity or public body".

"E. The work of the Fellows shall be assessed at the end of the first year, and the procedure for assessment shall be similar to the one laid down in academic ordinance 13, clause 9, sub-clause(a). If on assessment, it is found that the Fellow lacks potential for useful research, the Fellowship may be terminated.

"(F) Notwithstanding what is provided in E above, if a Fellow who is registered as a candidate for the M.Phil degree of this University fails to submit his dissertation for this degree within a period of two years of his having been registered - irrespective of the time of the award of the Fellowship to him - his Fellowship shall be terminated at the end of the above two years.

"(G) At the end of the second year of the Fellowship, a Fellow's work shall be assessed again, and, if the work is found satisfactory the Fellowship will be renewed for another two years. The Fellow will, normally, be allowed to complete the full four years of the Fellowship even if his Ph.D. dissertation is submitted before the expiry of the full term of the Fellowship.

"(H) Notwithstanding what is provided in (E) and (G) above, the University may terminate a Fellowship at any time if it is not satisfied with the progress or conduct of the Fellow".

C. Policy for Research

The Committee feels that the research programmes of the various academic departments of this University should clearly embody the spirit of Clause 4 of the University

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Act which says, "The objects of the University, shall be to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit, to pay special attention to the improvement of the social and economic conditions and welfare of the people of the hill areas of the North-Eastern region and, in particular, their intellectual, academic and cultural advancement".

The Committee recommends, therefore, that the Academic Council issue a directive to this effect to the various bodies of the University concerned with research policy and administration.

Sd/- M.Miri,

Sd/- P.S.Ramakrishnan
