

## 5: 6 - ESTT. of new Deptts. / centres / courses -

## (i) Introduction of a Course on Environment Awareness

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

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

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

The matter was placed before the 53rd Academic Council held on 3rd and 4th June, 1996 which considered the recommendations of the Committee and RESOLVED to accept the same.

The matter is placed before the Executive Council for consideration.

Yours Sincerely,

25/

(A.C. Mohapatra)

Copy to  
The Registrar, North-Eastern Hill University, (Non-member  
Sec retary, E.C. NEHU Shillong.

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

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

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

To,

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

(Chair person, Executive Council, NEHU)

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

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

Sir,

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

Yours Sincerely,

Sd/-

( A.C. Mohapatra )

Copy to :-

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

M I N U T E S

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

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

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

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

The following decisions were taken.

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

TITLE : Man and Environment.

MARKS : 100

Broad objectives placed before the course.

The Course is designed with the following broad Objectives :

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

TITLE :

No. OF LECTURES : 50

UNIT - I

(CONCEPTUAL BACKGROUND)

Meaning of environment

Elements of Environment

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

Need for environmental education

Define Eco-System, Ecology and Habitat.

UNIT-2

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

Energy Path

Energy Flow

Energy Budget

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

UNIT-3

(POPULATION AND ENVIRONMENT).

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

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

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

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

UNIT-4

(PRESSURE OF POPULATION ON INDIA'S ENVIRONMENT)

Trends in Population growth in India.

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

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

UNIT-5

(ENVIRONMENTAL CONSEQUENCES OF HUMAN INTERVENTIONS -I)

Populations and Pollutants :

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

UNIT-7

(EFFECTS ON BIO-SPHERE)

Species vulnerability:

- Endangered Species
- Genetic Resources

Concept of bio-diversity and bio-reserves.

UNIT-8

(ENVIRONMENT AS RESOURCE)

Concept of resource

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

Conservation of Resources and Alternative Strategies.

UNIT-9

(EFFECTS OF DEVELOPMENT)

Predicament of man and sustainable development.

Peoples movement in protecting environment.

the case of Green movement, Chipko movement, Bishnoi efforts  
The Narmada debate.

UNIT-10(ENVIRONMENT AND NORTH-EAST)

Extent and type of forests in the N.E.

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

Flooding and causes of Flooding in N.E.

Shifting cultivation and its impact on Land-degradation

Concept of watershed management.

SUGGESTED READING LIST

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

Contd.....5/-

ANNEXURE - B

- 5 -

RECOMMENDATION - 5

It is recommended that

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

Sd/-

( Prof. A.C.Mohapatra )

Dean

School of Human & Environmental Sciences

North-Eastern Hill University

Shillong.

Convener of the Committee

Dated 30.3.1996  
Shillong.

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SSG/24/4/96)

I regret that there was some delay in sending our final reports on the P.G. level courses, since we were waiting response from the departments.  
 We have already sent the details of the course structure and recommendations of the U.G. Committee for the purpose which met twice, on 19.3.96 & 26.3.96.

Conc...P.2)

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 Shillong-793014, INDIA, Tel: 91-0364-228499/223325(R) Fax:  
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Dr. A. C. Mohapatra  
 Professor & Dean

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

53/SHES/Syllabus/363.  
 No. /96  
 April 19, 1996

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

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

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

Sir,

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

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

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

Cond...P.2)

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

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

Sd/-

( PROF. A.C. MOHAPATRA )

Dean

School of Human & Environmental Sciences  
NEHU, Shillong.

SSG/25/4/1996

LIST OF P.G. DEPARTMENTS

( COURSES FRAMED AND RECEIVED)

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

(No response yet)

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

Sd/- A.C.Mohapatra  
Dean

School of Human and Environmental Sciences  
NEHU:::: SHILLONG

M I N U T E S

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

The following members attended the meeting :-

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

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

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

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

Thanking you

Yours sincerely,

Sd/-

A.C.Mohapatra

Copy to AR. (Conf)

NEHU Shillong for information & necessary action

A.C.Mohapatra

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

(i) Introduction of a Course on Environment  
Awareness.

No: EC: 90: 96: 5: 6: (i): The Council considered the recommendations of the Committee appointed by it for the Introduction of a Course on Environment Awareness both at the Under-Graduate and Post-Graduate levels and RESOLVED that the Controller of Examinations should immediately notify the recommendations of the Committee to all Colleges and Post-Graduate Departments with copies to the Ministry of Human Resource Development and the University Grants Commission and relevant modifications may be made in the Ordinances. The Council also further RESOLVED that the Committee under the Dean, School of Human and Environmental Sciences may devise the Course content, reading materials and also orientation of teachers for the Under-Graduate Courses.

(ii) Location of the Post-Graduate Deptt.  
in Mizo.

No: EC: 90: 96: 5: 6: (ii): The Council considered the introduction and location of the Post-Graduate Department in Mizo and RESOLVED to accept the recommendations of the Academic Council. The Council also noted the latest development as informed by the Chairman.

(iii) Impact on North-Eastern Hill University  
consequent upon establishment of a Mizoram  
University and taking over of a College or  
opening of a University College in Shillong/  
Jowai.

No: EC: 90: 96: 5: 6: (iii): The Council considered the impact on the University in the event of the establishment of a Mizoram University and RESOLVED that a Committee consisting of the following may go into the Memorandum of Understanding to be executed between the Government of Mizoram and discuss the matter further with the Government.

Contd/.../-