CURRICULUM AND CREDIT FRAMEWORK FOR UNDERGRADUATE PROGRAMMES

Syllabus for

Department of Environmental Science Nagaland University

MULTIDISCIPLINARY COURSES

Course Code	Title of the Course	Credit	Semester
MD-1	Environmental Science	3	1

MULTIDISCIPLINARY COURSE: ENVIRONMENTAL SCIENCE

Unit1: Ecosystem and the Environment

Definition, Scope and importance of Environmental science; Concept, Structure and functions of an Ecosystem; Bio-geographical classification of India; Value of biodiversity; Need for Public awareness towards conservation.

Unit 2: Natural Resources

Renewable and non-renewable resources; Use and over exploitation of natural resources; Role of individual in conservation of natural resources.

Population growth;Impact of human population growth on natural resources and environment; Sustainable development.

Unit 3:EnvironmentalPollution, Laws & Management

- a. Definition, Causes, Effects and Control/Preventive measures of Air, Water, Soil and Noise pollution.
- b. Legal, administrative and constitutional provisions for environmental protection in India; Evolution and development of International Environmental laws and treaties; Concept and scope of environmental Management; Solid waste management; Waste-to-wealth technologies.

Unit 4: Environmental hazards

Definition - Hazard, vulnerability and risk; Strategies for mitigation - warning system, forecasting, emergency preparedness; Education and Training Activities, planning for Rescue and Relief works.

Suggested Readings:

- 1. BharuchaErach (ed) Text Book of Environmental Studies., University Press (India) Pvt. Ltd.
- 2. BharuchaErach, 2003. The Biodiversity of India, Mapin Publishing Pvt. Ltd, Ahmedabad 380013.
- 3. IndiaSantra S.C, (ed), Environmental Science, New Central Agency Pvt Ltd. Kolkata, India.
- 4. Kaushik, Anubha& Kaushik, C.P. 2006. Perspectives in Environmental Studies, New Age International (P) Ltd. Publisher, New Delhi.
- 5. Singh Savindra 2003. Environmental Geography, PrayagPustak Bhawan, Allahabad