## Semester IV

Course Code: EITG - 205 Course Title: Environmental Studies				
Number of Cre		Total Hours: 42	Total Marks: 7	5
Prerequisites for the course				
Concern and watchfulness about current status of environment				
Objectives of Course				
To provide various awareness programs required for the welfare of the environment apart from the emphasis on the general and conventional issues surrounding the environment				
Course Content				
Unit I	Introduction			10 Hours
Definition, scope, and importance, need for public Awareness, Renewable and non- renewable resources. Natural resources: associated problems, Role of an individual in conservation, Equitable use for sustainable lifestyles.				
Ecosystems: Concept, Structure, and function of an ecosystem. Producers, consumers, and decomposers. Energy				
		l succession. Food chains, food y	webs and ecological py	
Unit II		nd its conservation		11 Hours
India as a mega diversity Nation, Bio-geographically classification of India. Biodiversity: Hotspots, Value of biodiversity, Biodiversity at global, National, and local levels. Threats to biodiversity: habitat loss, poaching of wildlife, man- wildlife conflicts. Endangered and endemic species of India. Conservation of biodiversity: In– situ and Ex- situ conservation of biodiversity.				
Unit III	Pollution			11 Hours
Environmental Pollution: Definition, Cause, effects, and uncontrolled measures of: Air pollution, Water pollution,				
Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards. Solid waste Management: Causes, effects, and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Pollution case studies. Disaster management: floods, earthquake, cyclone and landslides.				
Unit IV	Social Issues			10 Hours
Social Issues and the Environment: From Unsustainable to Sustainable development. Urban problems related to energy. Water conservation: rainwater harvesting, watershed management. Resettlement and Rehabilitation of				
people; its problems and concerns. Case Studies. Environmental ethics: Issues and possible solutions. Climate				
change, global warming, acid rain, ozone layer depletion, nuclear accidents, and holocaust. Case Studies.				
Wasteland reclamation. Consumerism and waste products. Issues involved in enforcement of environmental				
legislation. Public awareness.				
Pedagogy				
Lectures/Tutorial/Assignments/ Practice Sessions				
Course Outcome				
Vigilance and actions to prevent degradation of environment will be inculcated				
References/Readings         1. Mike Hulme, Climates and Cultures.				
<ol> <li>Mike Hulme, Climates and Cultures.</li> <li>Mark Garrett, Encyclopaedia of Transportation Social Science and Policy.</li> </ol>				
<ol> <li>Mark Garrett, Encyclopaedia of Transportation Social Science and Policy.</li> <li>Steel, Science An A - to - Z Guide to Issues and Controversies.</li> </ol>				
<ol> <li>John A Matthews, Encyclopaedia of Environmental Change.</li> </ol>				
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