Course Code	Title			
18U4ENV101	Ability Enhancement Compulsory course (AECC) Environmental Studies			
Semester: I	Credits: 2 (Common to all UG Programmes)	ESE : 50 Marks		

Course Objective: This course enables the students to recognize the interconnectedness of multiple factors in environmental challenges and communicate clearly and competently matters of environmental concern.

Course Outcome:

CO 1	To understand key concepts from economic, political, and social analysis as they pertain
	to the design and evaluation of environmental policies and institutions.
CO 2	To understand concepts and methods from ecological and physical sciences and their
002	application in environmental problem solving.
CO 3	To solve the ethical, cross-cultural, and historical context of environmental issues and
005	the links between human and natural systems.
CO 4	To reflect critically about their roles and identities as citizens, consumers and
004	environmental actors in a complex, interconnected world.
CO5	To apply systems concepts and methodologies to analyze and understand interactions
005	between social and environmental processes.

Course Content

Instructional Hours / Week : 2

Unit	Description	Text Book	Chapter
Ι	Natural Resources: Forest resources, Water resources, Mineral resources Food resources and Energy resources.	1	5
Instructional Hours			6
п	Ecosystems: Concept of an ecosystem, Structure and function; Introduction, types characteristic features, structure and function of ecosystem Activity: Prepare an album on types of Ecosystem.	1	3
Instructional Hours			6
ш	Environmental Pollution: Definition Causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution and Noise pollution, Solid waste management Activity: Discuss the solutions for water pollution.	1	8,9,11, 10,12,15
Instructional Hours			6
IV	Social Issues and the Environment Water conservation, rain water harvesting, watershed management, Environmental ethics : Issue summits' and possible solutions and Public awareness Activity: Identify and analyze a Social Issue and an Environment issue in your locality.	1 2	17 9

Instructional Hours			4
V	Disaster Management: Floods, Earthquakes, Cyclones, Landslides: From management to mitigation of disasters: The main elements of a mitigation and measures of strategy: Floods, Earthquakes, Cyclones and Landslides	3	16
Instructional Hours			6
Case Studies: Use Social media for e-networking and dissemination of ideas on environmental issues. (Or) Visit to a Nearby biome / Wildlife Sanctuary/ our own campus & study the various bioresources.		2	
Total hours		30	

Text Book(s):

- 1. Agarwal,K.M.,Sikdar,P.K.,Deb,S.C. (2002). A Textbook of Environment. Macmillan India Ltd. Kolkata, India.
- Dash.M.C. (2004). "Ecology, Chemistry & Management of Environmental Pollution". Published By Rajiv Beri For Macmillan India Ltd. 2/10 Ansari Road, Daryaganj, New Delhi – 110002.
- 3. From UGC website: https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf

Reference Book(s):

- 1. Agarwal, K.C. 2001 Environmental Biology, Nidi Public Ltd Bikaner.
- 2. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws Himalaya Pub. House, Delhi 284 p.
- 3. Mckinney, M.L. & Schoch R.M. 1996. Environmental Science systems & Solutions
- 4. Odum, E.P. 1971 Fundamentals of Ecology. W.B. Saunders Co. USA. 574 p
- 5. Rao MN & Datta, A.K. 1987 Waste Water treatment, Oxford & IBH Publication Co. Pvt. Ltd 345 p.