

Branch Name:	MANAGEMENT
Program Code:	MS301
Course Name:	Environmental Science and Sustainability
Course Code:	3MS3010105T
Pre-requisite Course:	None

Course Objectives:

1. Understand the environmental concept, components, relationships, and technological impacts, while differentiating between renewable and non-renewable resources. Define pollution types and identify causes, effects, and control measures.
2. Understand global environmental issues and social aspects such as climate change, sustainability, water conservation, and the impact of consumerism.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
2	-	-	2	25	25	-	-	50

Subject Contents:

Module No.	Contents	Total Hours	Weightage (%)
1	Introduction of Environment: Definition and Components of Environment, Relationship Between the Different Components of Environment, Impact of Technology on Environment, Environmental Degradation and Importance of Environmental Issues in Current Scenario, Natural Resources Renewable and Non-renewable Resources.	12	40%
2	Environmental Pollution: Definition, types of Pollution, Cause, effects, and Control Measures of: - Air pollution, Water pollution, Soil pollution, and Noise pollution.	6	20%
3	Global Environmental Issues: Climate Change, Global Warming and Green House Effect, Acid Rain, Depletion of Ozone Layer, Environment Protection Act, Environmental Awareness and Ethics. Social Issues and The Environment: Sustainable development, Water conservation, rainwater harvesting, watershed management, Consumerism and waste products.	12	40%

Text Books

1. Environmental Studies: R. Rajagopalan, Oxford University Press
2. Environmental Pollution: Causes, Effects & Control by K.C Agrawal
3. Environmental Sciences by Daniel B Botkin & Edward A Keller Publisher: John Wiley & Sons.
4. Environmental Studies by Dr. Suresh K Dhameja, Published by: S K Kataria & Sons New Delhi

Reference Book

1. Basics of Environmental Studies by Dr. N S Varandani, Publisher: LAP -Lambert Academic Publishing, Germany

2. Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha Second edition, 2013 Publisher: Universities Press (India) Private Ltd, Hyderabad.
3. Environmental Studies by Anindita Basak, Publisher: Dring Kindersley (India) Pvt. Ltd Pearson
4. Textbook of Environmental Studies by Deeksha Dave & S S Kateva, Cengage Publishers.

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Explain the fundamental concepts of environmental science, natural resources, ecosystems, biodiversity, pollution, and the impact of human activities and technology on the environment, and evaluate appropriate pollution prevention and resource conservation measures.	Understand–Analyze
CLO2	Analyze global environmental challenges and sustainability practices, including climate change, water conservation, sustainable development, responsible consumption, and environmental management, and recommend sustainable solutions for business and society.	Analyze–Evaluate

Mapping of CLOs with Pos & PSOs

Course Learning Outcomes	Program Outcomes (POs)								Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
CLO1	H	M	L	L	M	H	M	L	M	L
CLO2	M	H	H	M	H	H	H	M	H	M

H: High, M: Medium, L: Low
