

Branch Name:	Management
Program Code:	MS101
Course Title:	Environmental Science and Sustainability
Course Code:	21-VAC154-1C

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

Course Contents:

Unit No	Topic	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.	06	20%
3	Global Environmental Issues: Climate Change, Global Warming and GreenHouse 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%
	Total Hours	30	100%

Text Books:

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

Reference Books:

- Basics of Environmental Studies by Dr. N S Varandani, Publisher: LAP -Lambert Academic Publishing, Germany
- Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha Second edition, 2013 Publisher: Universities Press (India) Private Ltd, Hyderabad.
- Environmental Studies by Anindita Basak, Publisher: Dr. King's College (India) Pvt. Ltd Pearson
- Textbook of Environmental Studies by Deeksha Dave & S S Kateva, Cengage Publishers.

Course Outcomes (CO):

1. Students will demonstrate a comprehensive understanding of environmental concepts, including the components of the environment, their relationships, and the impacts of technology. They will differentiate between renewable and non-renewable resources and effectively define pollution types while identifying their causes, effects, and appropriate control measures.
2. Students will develop an understanding of global environmental issues and social aspects, including climate change, sustainability practices, water conservation strategies, and the environmental impacts of consumerism.

Mapping of CO with PO and PSO

Course Outcomes	Program Outcomes (POs)							Program Specific Outcomes (PSOs)
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1
CO1	M		H	L		M	H	M
CO2	L		H		H		H	L

H: High, M: Medium, L: Low