

Subject Code: 1MS1010503	Subject Title: Environment Studies
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1. Course Objectives:

This course aims to bring together the principles of different streams so as to solve contemporary environmental problems. To intends to inculcate the environmental values translating into pro-conservation actions.

2. Teaching Scheme (Hours per week):

Lecture (Hrs.)	Tutorial	Practical	Credit	Evaluation Scheme (Marks)				
				Theory		Practical		Total
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
4	-	-	4	70	30	-	-	100

3. Syllabus:

Module No.	Contents	Total Hours	Weight
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.	12	25%
2	Natural Resources A. Renewable and Nonrenewable Resources, Exploitation and Conservation, Role of Individual in Conservation of Natural Resources. B. Water Resources: Water Sources- Surface and Ground Water Sources, Indian and Global Scenario. C. Land as a Resource, Social Issues D. Forest Resources: Definition and Classification of Forests Ecological and Economic Importance and Benefits of Forest, Indian Scenario, Deforestation: Causes and Effects, Remedial Measures. E. Energy Resources: Conventional and Non-Conventional Sources of Energy, Advantages and Limitations, Utilization, Exploitation and Related Environmental Problems.	12	25%
3	Environmental pollution Types of Environmental Pollution: A. Water Pollution: Introduction – Water Quality Standards, Sources of Water Pollution: Industrial ,Agricultural, Municipal; Classification of Water Pollutants, Effects of	12	25%

	Water Pollutants, Eutrophication B. Air Pollution: Composition of Air, Structure of Atmosphere, Ambient Air Quality Standards, Classification of Air Pollutants, Sources of Common Air Pollutants Like PM, SO₂, NO_x, Natural & Anthropogenic Sources, Effects of Common Air Pollutants C. Land Pollution: Land Uses ,Land Degradation: Causes, Effects and Control, Soil Erosion D. Noise Pollution: Introduction, Sound and Noise, Noise Measurements, Causes and Effects E. Thermal Pollution: Causes and Effects F. Role of Individual in the Prevention of Pollution		
4	Global Environmental Issues And Legislation Global Environmental Issues: Climate Change, Global Warming and Green House Effect, Acid Rain, Depletion of Ozone Layer. Environmental Acts: Water, land, Air and Forest. Environmental Awareness and Ethics.	12	25%

4. Suggested Readings

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