



DEPARTMENT OF MATHEMATICS

Semester : II

Integrated M.Sc. Mathematics

Academic Year : 2017-18

Subject : 060090201 AECC2 Environmental Studies

Teaching Schedule

Course Objectives:

- ✓ To make students understand the importance of environment.
- ✓ To develop a managerial understanding of environment and to follow sustainable development practices.
- ✓ To make students aware about the variation in environment and its impact on business and on the society as a whole.

Unit	Sub Unit	No. of Lect.(s)	Topics	Reference Chapter/ Additional Reading	Teaching Methodology to be used
Unit 1: THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES:					
[04]	1.1	3	Definition, scope and importance	Textbook of Environmental Studies Bharucha, Erach	Chalk & Talk
	1.2	1	Need for public awareness <ul style="list-style-type: none"> ✓ Institutions in Environment ✓ People in environment 		
Unit 2: NATURAL RESOURCES:					
[05]	2.1	1	Introduction	Textbook of Environmental Studies Bharucha, Erach	Chalk & Talk
	2.2	4	Renewable and non-renewable resources <ul style="list-style-type: none"> ✓ Natural resources and associated problems ✓ Non-renewable resources ✓ Renewable resources 		
Unit 3: BIODIVERSITY					
[04]	3.1	1	Introduction	Textbook of Environmental Studies Bharucha, Erach	Chalk & Talk, Audio Visual Tool
	3.2	1	Biodiversity at global, national and local level.		
	3.3	1	Hot-spots of biodiversity		
	3.4	1	Threats to biodiversity: habitats loss, poaching of wild life, man wildlife conflicts		
Unit 4: ENVIRONMENTAL POLLUTION					
[06]	4.1	1	Definition	Textbook of Environmental Studies Bharucha, Erach	Chalk & Talk
	4.2	4	Causes, effects and control measures of pollution <ul style="list-style-type: none"> ✓ Air Pollution ✓ Water Pollution ✓ Soil Pollution ✓ Noise Pollution ✓ Thermal Pollution ✓ Nuclear hazards 		



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	4.3	1	Role of an individual in prevention of pollution		
Unit 5: SOCIAL ISSUES AND THE ENVIRONMENT					
[07]	5.1	1	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust	Textbook of Environmental Studies Bharucha, Erach	Chalk & Talk, Audio Visual Tool, Assignment
	5.2	1	Consumerism and waste products		
	5.3	1	Environmental ethics: Issues and possible solution		
	5.4	1	The Environment Protection Act		
	5.5	1	The Air (prevention and control of pollution) Act		
	5.6	1	The Water (prevention and control of pollution) Act		
	5.7	1	Forest Conservation Act		
Unit 6: HUMAN POPULATION AND ENVIRONMENT					
[05]	6.1	1	Environment and human health	Textbook of Environmental Studies Bharucha, Erach	
	6.2	1	Woman and child welfare		
	6.3	1	Ill effects of fire works		
	6.4	1	Role of Information Technology in environment and human health		
	6.5	1	Solid waste management: Causes, effects and control measure of urban and industrial waste		

Text books:

1. Bharucha, Erach(2005), Textbook of Environmental Studies, Universities Press.(BE).

Reference books:

1. Benny Joseph (2009), Environmental Studies, Second Edition, The McGraw-Hill Companies, New Delhi.
2. Bharucha Erach, (2003), The Biodiversity of India, Mapin Publishing Pvt. Ltd,
3. Schramm, Gunter, J. Warford, Jeremy (1989), Environmental



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