

Subject Code: BP205T	Subject Title: Environmental Sciences (Theory)
Pre-requisite: --	

Course Objective: Upon completion of the course student shall be able to

1. Summarize basic knowledge about the environment and its allied problems.
2. Narrate various Environmental Pollution like Air pollution, Water pollution and Soil pollution.
3. Describe basic concept, structure and function of an ecosystem.

Teaching Scheme (Hours per week)			Evaluation Scheme (Marks)			
Lecture	Tutorial	Credit	Theory			Total
			University Assessment	Continuous Assessment	Internal Assessment	
3	-	3	50	10	15	75

Detailed Syllabus:

Sr. No.	UNIT	Hours	Weightage (%)
1.	<p>The Multidisciplinary nature of environmental studies Natural Resources Renewable and non-renewable resources: Natural resources and associated problems a) Forest resources; b) Water resources; c) Mineral resources; d) Food resources; e) Energy resources; f) Land resources: Role of an individual in conservation of natural resources</p>	10 Hours	33.33%
2.	<p>Concept of an ecosystem. Structure and function of an ecosystem. Introduction, types, characteristic features, structure and function of the ecosystems: Forest ecosystem; Grassland ecosystem; Desert ecosystem; Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)</p>	10 Hours	33.33%
3.	<p>Environmental Pollution. Air pollution; Water pollution; Soil pollution</p>	10 Hours	33.33%

Recommended Study Material:

1. Environmental Science, Y.K. Sing, New Age International Pvt, Publishers, Bangalore
2. Environmental Biology, Agarwal, K.C. 2001, Nidi Publ. Ltd. Bikaner.
3. The Biodiversity of India, Bharucha Erach, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India
4. Hazardous Waste Incineration, Brunner R.C., 1989, McGraw Hill Inc.
5. Marine Pollution, Clark R.S., Clarendon Press, Oxford
6. Environmental Encyclopedia, Cunningham, W.P., Cooper. T.H., Gorhani, E. & Hepworth, M.T., 2001, Jaico Publ. House, Mumbai
7. Environmental Chemistry, De A.K., Wiley Eastern Ltd.
8. Down of Earth, Centre for Science and Environment