Course related to Environment

Sem	Course Code	Foundation Course - I:	Total M	arks: 50	Hours Per Week	Credits	
1	21ES01	Environmental Studies	CIA:-	ESE :50	2	2	

Course Objectives:

- 1. To identify the major challenges in environmental issues and find the possible solutions.
- 2. Develop socio-economic skills for sustainable development.
- 3. To analyze an overall impact of specific issues and develop environmental management plan.

	Course Outcomes (CO): On completion of the course, students should be ab	le to		
CO 1	Compile different types of ecosystem and its energy flow.			
CO 2	Analyze the impacts of Natural resources			
CO 3	CO 3 Apply the concepts of biodiversity and its conservation.			
CO 4	Create awareness on disaster management and measures to prevent pollution.			
CO 5	Outline the environmental policies and its practices.			

K1: Recall; K2: Understand; K3: Apply; K4: Analyze;

Unit –I Ecosystems

Ecosystems: Meaning - Structure and function of Ecosystem; Types of Ecosystem; Structure and function of the following Ecosystem: (a) Forest Ecosystem (b) Grassland Ecosystem (c) Desert Ecosystem (d) Aquatic Ecosystems; Energy flow in an Ecosystem: Food Chains, Food Webs and Ecological Pyramids. Need for a Balanced Ecosystem and Restoration of degraded Ecosystem.

Unit – II Natural Resources: Renewable and Non-renewable Resources

Land Resources and land use change; Land degradation, Soil erosion and desertification.

Deforestation: Causes and impacts due to mining, Dam building on Environment, Biodiversity and Tribal Populations.

Water: Use and over-exploitation of surface and ground water, Floods, Droughts, Rain water Harvesting. Energy Resources: Renewable and Non Renewable Energy Sources, Use of Alternate Energy Sources, growing energy needs.

Unit – III Biodiversity and Conservation

Levels of Biological Diversity: Genetic, Species and Ecosystem diversity; Biogeographic zones of India; Biodiversity hot spots.

India as a Mega-Biodiversity Nation; Endangered and Endemic species of India.

Threats to biodiversity: Habitat loss, Poaching of Wildlife, Man - Wildlife conflicts, Biological invasions; Conservation of Biodiversity: In-situ and Ex-situ conservation of biodiversity.

Unit – IV Disaster Management & Environmental Pollution

Disaster: Types – Natural and Manmade; Earthquakes, Volcanic eruption, Landslides, Flood, Drought, Fire, Nuclear, Chemical and Biological Disasters.

Disaster Management: Floods, Earthquake, Cyclones and Landslides.

Causes, Effective trol measures of: (a) Air Pollution (b) Water Pollution (c) Soil Pollution (d) Noise Pollution (c) 11. Const Pollution (f) Radioactive Pollution.

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	Waste Management, E -Wa Inmental Sanitation – Socioe	aste Management - Sources, Chara conomic Benefits	cteristics & Disposal methods							
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Unit		Environmental Policies & Prac								
Comm Enviro Water Intern Public Skill J	nunities and Agriculture. onment Laws: Environmen (Prevention & control of Polational Agreements: Montre	on India Movement – Swachh Bharat Government on Ecosystems Ecosystems	& Control of Pollution) Act; Forest Conservation Act.							
<u>J.</u>	Dist out the various Disaster	TEXT BOOKS								
1.	Environmental Studies for Coimbatore, 2004.	or Under Graduate Course, 1st e	dition, Bharathiar University,							
2.	Environmental Studies (for Non-Engineering Students) by Prof. B.Sudhakara Reddy, Prof. T.Shivaji Rao, Prof. U.Tataji and Prof. K.Purushotham Reddy, published by Maruthi Publications, Guntur. (Prescribed by APSCHE).									
3.	Environmental Studies Dr.G.Rambabu and Dr.V.V	iveka Vardhani, Published by Telugi	or.M.V.R.K.Narasimhacharyulu, u Academy, Hyderabad.							
		REFERENCE BOOKS								
1.	Limited.	vironmental Studies", Tata McGraw								
2.	R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley Indi Private Ltd., New Delhi.									
3.	S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007.									
12.75	Course Designed By	Verified By	Approved By HOD							
	Rod S.T.Radha	Ms.C.Radhamani	Ms S. Yasmin							
3 t = 12		QUESTION PAPER PATTERN								
		SECTION – A								
		100 X ½ = 50 Marks Answer ALL the questions Multiple Choice Questions								
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CO 2	М	L	S	М	L	S	S	М	М	S	S	S
CO 3	М	L	S	М	М	S	S	М	М	S	S	S
CO 4	S	М	S	S	М	S	М	М	M	S	S	S
CO 5	M	М	M	S	M	S	S	M	M	S	S	S

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