Foundation Course-2: Environmental Studies (Common for All UG Programmes)

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50	(Common for All UG Programmes)		
50	Unit-I : Natural Resources:	6 Hrs	
60	Definition, scope and importance. Need for public awareness. Brief description of;	01113	
co	Forest recourses: Use and over-exploitation. Deforestation; timber extraction, mining, dams. Effect of deforestation environment and tribal people		
Fo	Water resources: Use and over—utilization. Effects of over utilization water. Floods, drought.	on of surface and ground	
50	Mineral resources: Use and exploitation, environmental effects mineral resources.	of extracting and using	
2	Food resources: World food problems, Effects of modern agricult salinity problems.	ure; fertilizer- pesticide,	
3	Energy resources: Growing energy needs, renewable and non-reduce of alternate energy sources.	newable energy sources,	
3	Land resources: Land as resources, land degradation, man induced and desertification	l landslides, soil erosion	
3	Unit-II: Ecosystems, Biodiversity and its conservation Concept of an ecosystem	6 Hrs	
3	Structure and function of an ecosystem Producers, consumers and decomposers		
)	Food chains, food webs and ecological pyramids Characteristic features of the following ecosystems:-Forest ecosystem, Desert ecosystem,		
)	Aquatic ecosystem.		
9	Value of biodiversity: Consumptive use, productive use. Biodiversity Threats to biodiversity: habitat loss, poaching of wildlife, man wildli		
9	Endangered and endemic species of India Conservation of biodiversity		
7	Unit-III: Environmental Pollution	6 Hrs	
,	Definition, Causes, effects and control measures of:- Air pollution, Water pollution, Soil pollution, Noise pollution		
7	Solid waste management; Measures for safe urban and industrial waste disposal Role of individual in prevention of pollution		
7	Disaster management: Drought, floods and cyclones		
,	Unit-IV: Social Issues and the Environment	6 Hrs	
7	From Unsustainable to Sustainable development Water conservation, rain water harvesting, watershed management.		
7	Climate change, global warming, ozone layer depletion, Environment protection Act		
7	Wildlife Protection Act, Forest Conservation Act		
4	Unit-V: Human Population and the Environment Population explosion, impact on environment.	6 Hrs	
4	College (47%)		
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Family welfare Programme	
Environment and human health	
Women and Child Welfare	
Value Education	
Role of Information Technology in Enviro	nment and human health.

References:

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- Environmental Studies by Dr.M.Satyanarayana, Dr.M.V.R.K.Narasimhacharyulu, Dr.G. Rambabu and Dr.V.VivekaVardhani, Published by Telugu Academy, Hyderabad.
- 2. Environmental Studies by R.C.Sharma, Gurbir Sangha, published by Kalyani Publishers.
- 3. Environmental Studies by Purnima Smarath, published by Kalyani Publishers.

