

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA

DEPARTMENT OF ELECTRICAL ENGINEERING

Academic Lesson Plan for 3rdSemester - 2023 (Winter)

Subject: EVS (TH 5)

Name of the Teaching Faculty- Sri Kishore Chandra Prusty (PTGF)

SEMESTER FROM DATE:01/08/2023	No. of periods per week: 4 NO.OF WEEKS: 15 Total periods: 60	Internal Exam. : 20 Marks End Semester Exam.: 80 Marks Total Marks: 100 Marks
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WEEK	CLASS DAY	UNIT	THEORY/PRACTICAL TOPICS	REMARK
1ST	1ST	The Multidisciplinary nature of environmental studies	Introduction and definition of environment	
	2ND	The Multidisciplinary nature of environmental studies	scope and importance of environment	
	3RD	The Multidisciplinary nature of environmental studies	Need for public awareness	
	4TH	The Multidisciplinary nature of environmental studies	Need for public awareness	
2ND	1ST	Natural Resources:	Natural resources and associated problems	
	2ND	Natural Resources:	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	
	3RD	Natural Resources:	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	
	4TH	Natural Resources:	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
3RD	1ST	Natural Resources:	. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.	
	2ND	Natural Resources:	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	
	3RD	Natural Resources:	LandResources: Landasaresource, landdegradation.	
	4TH	Natural Resources:	Man induces landslides, soil erosion, and desertification.	
4TH	1ST	Natural Resources:	Role of individual in conservation of natural resources.	
	2ND	Natural Resources:	Equitable use of resources for sustainable life styles.	
	3RD	Systems:	Concept of an eco system.	
	4TH	Systems:	Structure and function of an eco system.	
5TH	1ST	Systems:	Producers, consumers, decomposers.	

	2ND	Systems:	Energy flow in the eco systems	
	3RD	Systems:	Ecological succession , Food chains, food webs and ecological pyramids	
	4TH	Systems:	Introduction, types, characteristic features, structure and function of the following eco system:	
6TH	1ST	Systems:	Forest ecosystem	
	2ND	Systems:	Aquatic eco systems (ponds, streams, lakes, rivers, oceans estuaries)	
	3RD	Biodiversity and it's Conservation:	Introduction-Definition: genetics, species	
	4TH	Biodiversity and it's Conservation:	Introduction-Definition: ecosystem diversity..	
7TH	1ST	Biodiversity and it's Conservation:	Biogeographically classification of India	
	2ND	Biodiversity and it's Conservation:	Value of biodiversity: consumptive use, productive use,.	
	3RD	Biodiversity and it's Conservation:	Value of biodiversity: social ethical, aesthetic and optin values.	
	4TH	Biodiversity and it's Conservation:	Biodiversity at global, national and local level.	
8TH	1ST	Biodiversity and it's Conservation:	Threats to biodiversity: Habitats loss, poaching of wild life	
	2ND	Biodiversity and it's Conservation:	Threats to biodiversity: , man wildlife conflicts..	
	3RD	Environmental Pollution:	Definition Causes, effects and control measures of Air pollution.	
	4TH	Environmental Pollution:	Definition Causes effects and control measures of Water pollution.	
9TH	1ST	Environmental Pollution:	Definition Causes effects and control measures of Soil pollution.	
	2ND	Environmental Pollution:	Definition Causes effects and control measures of Marine pollution	
	3RD	Environmental Pollution:	Definition Causes effects and control measures of Noise pollution.	
	4TH	Environmental Pollution:	Definition Causes effects and control measures of Thermal pollution 5.1.7 Nuclear hazards	
10TH	1ST	Environmental Pollution:	Definition Causes effects and control measures of Nuclear hazards	
	2ND	Environmental Pollution:	Solid waste Management: Causes, effects and control measures of urban	
	3RD	Environmental Pollution:	Solid waste Management: Causes, effects and control measures of industrial wastes.	
	4TH	Environmental Pollution:	Role of an individual in prevention of pollution.	

11TH	1ST	Environmental Pollution:	Disaster management: Floods, earth quake,	
	2ND	Environmental Pollution:	Disaster management: cyclone and landslides	
	3RD	Social issues and the Environment	Form unsustainable to sustainable development.	
	4TH	Social issues and the Environment	Urban problems related to energy.	
12TH	1ST	Social issues and the Environment	Water conservation, rain water harvesting, water shed management.	
	2ND	Social issues and the Environment	Resettlement and rehabilitation of people; its problems and concern.	
	3RD	Social issues and the Environment	Environmental ethics: issue and possible solutions	
	4TH	Social issues and the Environment	Climate change, global warming, acid rain, ozone layer depletion,	
13TH	1ST	Social issues and the Environment	nuclear accidents and holocaust, case studies.	
	2ND	Social issues and the Environment	Air (prevention and control of pollution) Act.	
	3RD	Social issues and the Environment	Water (prevention and control of pollution) Act	
	4TH	Social issues and the Environment	Public awareness	
14TH	1ST	Human population and the environment:	Population growth and variation among nations.	
	2ND	Human population and the environment:	Population explosion	
	3RD	Human population and the environment:	Family welfare program	
	4TH	Human population and the environment:	Environment and humanhealth	
15 TH	1 ST	Human population and the environment:	Human rights.	
	2 ND	Human population and the environment:	Value education	
	3 RD	Human population and the environment:	Role of information technology in environment	
	4 TH	Human population and the environment:	Role of information technology in human health.	