Government Polytechnic, Dhenkanal WINTER 2022-2023

Semester:3RD

LESSON PLAN

Subject: Environmental studies

Branch:Civil Engineering Faculty Name:Bikramsingh Seluni Subhadarshini Samal

WEEK NO.	DATE	Topic to be covered	PERIODS ASSIGNED PER TOPIC	PERIODS AVAILABL E PER WEEK
W-1	15.09.22 TO 17.09.22	The Multidisciplinary nature of environmental studies	4	
		Definition Of Environmental Studies; introduction to environmental studies		4
		Scope Of Environmental Studies		
		Importance Of Environmental Studies		
		Need for public awareness		
		2. Natural Resources :Renewable and non		
		renewable		
W-2	19.09.22 TO 23.09.22	Forest resources: Use and over-exploitation, deforestation, case studies	-	4
		Timber extraction mining, dams and their effects on forests and tribal people		
		Water resources: Use and over-utilization of surface and ground water, floods, Drought, conflicts over water, dam's benefits and problems		
		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources		
W-3	26.09.22 TO 01.10.22	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture		
		Fertilizers- pesticides problems, water logging, salinity		
		Energy Resources: Growing energy need, renewable and non-renewable energy sources		4
		use of alternate energy sources, case studies.		
		Land Resources: Land as a resource, land degradation		
		Man induces land slides, soil erosion, and desertification		
		,Role of individual in conservation of natural resources, Equitable use of resources for sustainable life styles		2
W-4	10.10.22 TO 15.10.22	3. Eco-Systems:		

		Concept of an eco system, Structure and function of an eco system		2
		Producers, consumers, decomposers : definitions and their role in an ecosystem		
		Energy flow in the eco systems, Ecological succession, Food chains, food webs	8	
W-5	17.10.22 TO 22.10.22	Ecological pyramids, Introduction, types, characteristic features Of Forest Ecosystem		4
		Structure and Function Forest ecosystem:		
		Introduction and types of Aquatic eco systems		
		Characteristics of Aquatic eco systems		2
		Structure and Function of Aquatic eco systems		
W-6	25.10.22 TO	4. Biodiversity and its conservation		
	29.10.22	Introduction-DefinitionGenetics, Species and Ecosystem diversity		2
		Bio-geographical classification of India		
		Value of biodiversity: consumptive use, productive use		4
	31.10.22 TO	Social ethical, aesthetic values	8	
W-7	05.11.22	Biodiversity at global, national and local level.		
		Threats to biodiversity: Habitats loss		
	07.11.22 TO 12.11.22	Poaching of wild life man wildlife conflicts		2
W-8		DISSCUSSIONS ON CHAPTERS COVERED		
		5. Environmental Pollution.		
	12.11.22	Definition, Causes& effects of Air Pollution		2
		Control measures of Air Pollution		
	14.11.22 TO 19.11.22	Definition, Causes& effects of Water Pollution, Control measures of Water Pollution		4
W-9		Definition, Causes&effects of Soil Pollution, Control measures of Soil Pollution		
		CLASS TEST		
		Definition ,Causes & effects of Marine Pollution ,Control measures of Marine Pollution		
		Definition ,Causes& effects of Noise Pollution, Control measures of Noise Pollution	12	4
		Definition, Causes& effects of Thermal Pollution, Control measures of Thermal Pollution		
W-10	21.11.22 TO 26.11.22	Definition, Causes,&effects of Nuclear Hazard, Control measures of Nuclear Hazard		

		Solid waste Management: Causes, effects and control measures of urban and industrial wastes, Role of an individual in prevention of pollution.		
W-11	28.11.22 TO 03.12.22	Disaster management: Floods, earth quake: precautionary measures to be taken during natural calamities Cyclone and Land slides: precautionary measures to be		2
		taken during natural calamities		
		DISCUSSIONS ON INTERNAL QUESTIONS AND DISTRIBUTION OF EVALUATED ANSWER SHEETS		2
		Form unsustainable to sustainable development, Urban problems related to energy, Importance of Water		
W-12	05.12.22 TO 10.12.22	conservation ,rain water harvesting, water shed management		4
		Resettlement and rehabilitation of people; its problems and concern	10	
		Environmental ethics: issue and possible solutions. Climate change, global warming		
		Acid rain		
	12.12.22 TO 17.12.22	Ozone layer depletion		4
W-13		nuclear accidents and holocaust, case studies.		
		Air (prevention and control of pollution) Act		
		Water (prevention and control of pollution) Act		
		Public awareness		
		7. Human population and the environment		
		Population growth and variation among nations,		4
	19.12.22	Population explosion- family welfare program ,		
	ТО	Environment and human health, Human rights: Equity,		
W-14	22.12.2022	Nutrition, health and human rights, Intellectual Property Rights		
	ONWARDS	Value education ,Environmental Values, Valuing Nature,	8	4
		Valuing cultures , Social justice , Human heritage, Equitable use of Resources, Common Property Resources, Ecological		
		degradation, Role of information technology in		
		environment and human health		

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