LESSON PLAN FOR ACADEMIC SESSION: 2023-24(Winter-23)

Discipline: Electrical Engineering		Semester : 3rd	Name of the Teaching Faculty :PRADIP KUMAR MOHANTY	
Subject : ENVIRONMENTAL STUDIES	No. of days / week class allotte			
Week	Class Day	Chapter	Theory Topics	
and the file she	1st		1.1 Definition, scope and importance.	
	2 nd	Chapter-1	Continue	
1 st	3rd	_ The Multidisciplinary	1.2 Need for public awareness	
	4 th	nature of	Continue	
		environmental studies	Continue	
2 ND	1 st		2.1 Natural resources and associated problems. 2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.	
2 ND	2 nd	Chapter-2	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	
	3 rd	Natural Resources:	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
	4 th		Continue	
	1 st		2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.	
3 RD	2 nd		2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	
Tolong of the control of	3 rd	HAVA ALL TOPS	Continue	
	4 th		2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification	
	1 st	San	2.2 Role of individual in conservation of natural resources.	
4 ⁷ H	2 nd		2.3 Equitable use of resources for sustainable life styles.	
	3 _{rq}	70.4 100	3.1. Concept of an eco system.	
	4 th		3.2. Structure and function of an eco system.	
	1 st	gar yle	3.3. Producers, consumers, decomposers.	
€TH	2 nd	Chapter-3	3.4. Energy flow in the eco systems.	
5 TH	3 _{rd}	Systems	3.5. Ecological succession.	
	4 th		3.6. Food chains, food webs and ecological pyramids.	
6 ^{тн}	1 st		3.7. Introduction, types, characteristic features, structure and function of the following eco system.	

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			3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans	
	3 _{rd}		4.1. Introduction-Definition: genetics, species and ecosystem diversity.	
	4 th	Chapter-4 Biodiversity and	4.2. Biogeographically classification of India.	
7 TH	1 st	it's Conservation	4.3. Value of biodiversity: consumptive use, productive	
	2 nd		use, social ethical, aesthetic and optin values. Continue,	
	3 rd			
	4 th		4.4. Biodiversity at global, national and local level	
	1 st		4.5. Threats to biodiversity: Habitats loss, poaching of	
OT#	2 nd		wild life, man wildlife conflicts.	
8 TH	3 _{rq}		5.1. Definition Causes, effects and control measures	
	4 th		of: 5.1.1 Air pollution. 5.1.2 Water pollution.	
	1 st	Chapter-5	5.1.3 Soil pollution.	
9 ^{тн}	2 nd	Environmental Pollution	5.1.4 Marine pollution.	
3	3 rd		5.1.5 Noise pollution.	
	4 th		5.1.6 Thermal pollution.	
	1 st		5.1.7 Nuclear hazards.	
10 [™]	2 nd		5.2. Solid waste Management: Causes, effects and	
	3 rd		control measures of urban and industrial wastes. Continue	
	4 th		5.3. Role of an individual in prevention of pollution.	
	1 st		5.4. Disaster management: Floods, earth quake, cyclone and landslides.	
11^{тн}	2 nd		Continue	
	3 rd	Chapter-6 Social issues and	6.1. Form unsustainable to sustainable development.	
	4 th	the Environment	6.2. Urban problems related to energy.	
	1 st		6.3. Water conservation, rain water harvesting, water shed management.	
	2 nd		6.4. Resettlement and rehabilitation of people; its	
12 th	3rd		problems and concern. 6.5. Environmental ethics: issue and possible solutions	
	4 th		6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies	
	1 st		Continue	
13 th	2 nd	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.7. Air (prevention and control of pollution) Act.	
	3 rd	. */	6.8. Water (prevention and control of pollution) Act.	

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	4 th		6.9. Public awareness.
14 th	1 st	Chapter-7 Human population and the environment:	7.1. Population growth and variation among nations.
	2 nd		7.2. Population explosion- family welfare program.
	3 rd		Continue
	4 th		7.3. Environment and human health.
	1 st		7.4. Human rights.
	2 nd	Continue	
15 th	3 _{rd}		7.5. Value education
	4 th		Continue

P.K. Mohanty 31.07.2 Prepared by

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