

GOVT. POLYTECHNIC SAMBALPUR (Rengali)

LESSON PLAN

Discipline :		NAME OF THE TEACHING FACULTY: RASHMI RANJAN SAHOO AND PRITISH KUMAR MOHANTY	
Subject : Environmental Studies		Semester From date : 15.09.2022 To Date : 24.12.2022	
Week	Class Day	Topics	
1ST WEEK 15.09.2022 TO 17.09.2022	15.09.2022	1. The Multidisciplinary nature of environmental studies: 1.1 Definition,	
	16.09.2022	scope and importance.	
	17.09.2022	1.2 Need for public awareness.	
2ND WEEK 20.09.2022 TO 24.09.2022	20.09.2022	2.Natural Resources: Renewable and non renewable resources: 2.1 Natural resources and associated problems.	
	22.09.2022	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies,	
	23.09.2022	Timber extraction mining, dams and their effects on forests and tribal people.	
	24.09.2022	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	
3RD WEEK 27.09.2022 TO 01.10.2022	27.09.2022	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. 2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing	
	29.09.2022	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,	
	30.09.2022	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	
	01.10.2022	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.	
4TH WEEK 11.10.2022 TO 15.10.2022	11.10.2022	2.2 Role of individual in conservation of natural resources.	
	13.10.2022	2.3 Equitable use of resources for sustainable life styles.	
	14.10.2022	3.Systems: 3.1. Concept of an eco system.	
	15.10.2022	3.2. Structure and function of an eco system.	
5TH WEEK 18.10.2022 TO 22.10.2022	18.10.2022	3.3. Producers, consumers, decomposers.	
	20.10.2022	3.4. Energy flow in the eco systems.	
	21.10.2022	3.5. Ecological succession.	
	22.10.2022	3.6. Food chains, food webs and ecological pyramids.	
6TH WEEK 25.10.2022 TO 29.10.2022	25.10.2022	3.7. Introduction, types, characteristic features, structure and function of the following eco system:	
	27.10.2022	3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)	
	28.10.2022	4 Biodiversity and It's Conservation: 4.1. Introduction	
	29.10.2022	Definition: genetics, species and ecosystem diversity.	
7TH WEEK 01.11.2022 TO 05.11.2022	01.11.2022	4.2. Biogeographically classification of India.	
	03.11.2022	4.3. Value of biodiversity: consumptive use,	
	04.11.2022	productive use, social ethical, aesthetic and optin values.	
	05.11.2022	4.4. Biodiversity at global,	
8TH WEEK 09.11.2022 TO 12.11.2022	10.11.2022	national and local level.	
	11.11.2022	4.5. Threats to biodiversity: Habitats loss,	
	12.11.2022	poaching of wild life, Man wildlife conflicts	
9th WEEK 15.11.2022 TO 19.11.2022	15.11.2022	5 Environmental Pollution: 5.1. Definition Causes,	
	17.11.2022	5.1.1 Air pollution.	
	18.11.2022	5.1.2 Water pollution.	
	19.11.2022	5.1.3 Soil pollution	
10TH WEEK 22.11.2022 TO 26.11.2022	22.11.2022	5.1.4 Marine pollution	
	24.11.2022	5.1.5 Noise pollution.	
	25.11.2022	5.1.6 Thermal pollution	
	26.11.2022	5.1.7 Nuclear hazards.	
11TH WEEK 29.11.2022 TO 03.12.2022	29.11.2022	Solid waste Management: Causes, effects	
	01.12.2022	and control measures of urban and industrial wastes.	
	02.12.2022	5.3. Role of an individual in prevention of pollution.	
	03.12.2022	5.4. Disaster management: Floods, earth quake, cyclone and landslides.	
12TH WEEK 06.12.2022 TO 10.12.2022	06.12.2022	6 Social Issues and the Environment: 6.1. Form unsustainable to sustainable development.	
	08.12.2022	6.2. Urban problems related to energy.	
	09.12.2022	6.3. Water conservation, rain water harvesting, water shed management.	
	10.12.2022	6.4. Resettlement and rehabilitation of people; its problems and concern.	
13TH WEEK 13.12.2022 TO 17.12.2022	13.12.2022	6.5. Environmental ethics: issue and possible solutions.	
	15.12.2022	6.6. Climate change, global warming, acid rain,	
	16.12.2022	ozone layer depletion, nuclear accidents and holocaust, case studies.	
	17.12.2022	6.7. Air (prevention and control of pollution) Act. 6.8. Water (prevention and control of pollution) Act.	
14TH WEEK 20.12.2022 TO 24.12.2022	20.12.2022	6.9. Public awareness. 7 Human population and the environment: 7.1. Population growth and variation among nations.	
	22.12.2022	7.2. Population explosion family welfare program.	
	23.12.2022	7.3. Environment and human health.	
	24.12.2022	7.4. Human rights. 7.5. Value education	

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15/09/22