

Lesson Plan

	Discipline:Electrical Engineering	Semester-3rd Winter 2023 (B)	Name of the Teaching Faculty: Sri Nigam Prasad Mohapatra
Sl. No.	Subject- ENVIRONMENTAL STUDIES	No. Of Days/Week class allotted:04	Semester From date: 7/08/2023 To date: 30/11/2023. No of weeks: 14
	Weeks/Months	Class Day	Topic
1	1st Week	1st(8.08.2023)	1.1 Definition, scope and importance
		2nd(10.08.2023)	1.1 Definition, scope and importance
		3rd(10.08.2023)	1.2 Need for public awareness.
		4th(12.08.2023)	1.2 Need for public awareness.
2	2nd Week	1st(17.08.2023)	2.1 Natural resources and associated problems
		2nd(17.08.2023)	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
		3rd(19.08.2023)	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
3	3rd Week	1st(22.08.2023)	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
		2nd(24.08.2023)	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(24.08.2023)	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
		4th(26.08.2023)	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,.
4	4th Week	1st(29.08.2023)	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
		2nd(31.08.2023)	2.1.6. LandResources: Landasaresource, landdegradation, man induces landslides, soil erosion, and desertification.

		3rd(31.08.2023)	2.2 Role of individual in conservation of natural resources. 2.3 Equitable use of resources for sustainable life styles.
		3rd(31.08.2023)	3.1. Concept of an eco system. 3.2. Structure and function of an eco system.
5	5th Week	1st(5.09.2023)	3.3. Producers, consumers, decomposers.
		2nd(7.09.2023)	3.4. Energy flow in the eco systems.
		3rd(7.09.2023)	3.5. Ecological succession.
		4th(9.09.2023)	3.6. Food chains, food webs and ecological pyramids
6	6th Week	1st(12.09.2023)	3.7. Introduction, types, characteristic features, structure and function of the following eco system:
		2nd(14.09.2023)	3.8. Forest ecosystem:
		3rd(14.09.2023)	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
		4th(16.09.2023)	4.1. Introduction-Definition: genetics, species and ecosystem diversity
7	7th Week	1st(21.09.2023)	4.2. Biogeographically classification of India.
		2nd(21.09.2023)	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.
		3rd(23.09.2023)	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.
8	8th Week	1st(26.09.2023)	4.4. Biodiversity at global, national and local level.
		2nd(28.09.2023)	4.4. Biodiversity at global, national and local level.
		3rd(28.09.2023)	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
		4th(30.09.2023)	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
9	9th Week	1st(3.10.2023)	5.1. Definition Causes, effects and control measures of:
		2nd(5.10.2023)	5.1.1 Air pollution.
		3rd(5.10.2023)	5.1.2 Water pollution.
		4th(7.10.2023)	5.1.3 Soil pollution
10	10th Week	1st(10.10.2023)	5.1.4 Marine pollution
		2nd(12.10.2023)	5.1.5 Noise pollution.

		3rd(12.10.2023)	5.1.6 Thermal pollution
		Semester-3rd Winter 2023 (B)	5.1.7 Nuclear hazards.
11	11th Week	1st(17.10.2023)	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes
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		3rd(19.10.2023)	5.3. Role of an individual in prevention of pollution
12	12th Week	1st(30.10.2023)	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
		2nd(2.11.2023)	6.1. Form unsustainable to sustainable development
		3rd(2.11.2023)	6.2. Urban problems related to energy.
		4th(4.11.2023)	6.3. Water conservation, rain water harvesting, water shed management.
13	13th Week	1st(7.11.2023)	6.4. Resettlement and rehabilitation of people; its problems and concern.
		2nd(9.11.2023)	6.5. Environmental ethics: issue and possible solutions.
		3rd(9.11.2023)	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies
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14	14th Week	1st(14.11.2023)	6.7. Air (prevention and control of pollution) Act
		2nd(16.12.2022)	6.8. Water (prevention and control of pollution) Act.
		3rd(16.11.2023)	6.9. Public awareness.
		4th(18.11.2023)	7.1. Population growth and variation among nations
15	15th Week	1st(21.11.2023)	7.1. Population growth and variation among nations
		2nd(23.12.2022)	7.2. Population explosion- family welfare program.
		3rd(23.11.2023)	7.2. Population explosion- family welfare program.
		4th(25.11.2023)	7.3. Environment and humanhealth.
16	16th Week	1st(28.11.2023)	7.4. Human rights.
		2nd(30.12.2022)	7.5. Value education
		3rd(30.11.2023)	7.6. Role of information technology in environment and human health.