

Lesson Plan

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	Discipline:Electrical Engineering	Semester-3rd Winter 2023	Name of the Teaching Faculty: Sri Rajesh Kumar Sahoo
Sl. No.	Subject- ENVIRONMENTAL STUDIES, Sec-A	No. Of Days/Week class allotted:04	Semester From date: 7/08/2023 To date: 30/11/2023. No of weeks: 16
	Weeks/Months	Class Day	Topic
1	1st Week	1st(08.08.2023)	1.1 Definition, scope and importance
		2nd(08.08.2023)	1.1 Definition, scope and importance
		3rd(09.08.2023)	1.2 Need for public awareness.
		4th(10.08.2023)	1.2 Need for public awareness.
2	2nd Week	1st(17.08.2023)	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
		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(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.
		3rd(23.08.2023)	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
		4th(24.08.2023)	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(29.08.2023)	2.1.6. LandResources: Landasaresource, landdegradation, man induces landslides, soil erosion, and desertification.

		3rd(31.08.2023)	2 Role of individual in conservation of natural resources. 2.3 Equitable use of resources for sustainable life styles.
5	5th Week	1st(05.09.2023)	3.1. Concept of an eco system. 3.2. Structure and function of an eco system.
		2nd(05.09.2023)	3.3. Producers, consumers, decomposers.
		3rd(07.09.2023)	3.4. Energy flow in the eco systems.
6	6th Week	1st(12.09.2023)	3.5. Ecological succession.
		2nd(12.09.2023)	3.6. Food chains, food webs and ecological pyramids
		3rd(13.09.2023)	3.7. Introduction, types, characteristic features, structure and function of the following eco system:
		4th(14.09.2023)	3.8. Forest ecosystem:
	7th Week	1st(21.09.2023)	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans,estuaries).
8	8th Week	1st(26.09.2023)	4.1. Introduction-Definition: genetics, species and ecosystem diversity
		2nd(26.09.2023)	4.2. Biogeographically classification of India.
		3rd(27.09.2023)	ethical, aesthetic and optin values.
		4th(28.09.2023)	4.4. Biodiversity at global, national and local level.
9	9th Week	1st(03.10.2023)	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
		2nd(03.10.2023)	5.1. Definition Causes, effects and control measures of:
		3rd(04.10.2023)	5.1.1 Air pollution.
		4th(05.10.2023)	5.1.2 Water pollution.
10	10th Week	1st(10.10.2023)	5.1.3 Soil pollution
		2nd(10.10.2023)	5.1.4 Marine pollution
		3rd(11.10.2023)	5.1.5 Noise pollution.
		4th(12.10.2023)	5.1.6 Thermal pollution
11	11th Week	1st(17.10.2023)	5.1.7 Nuclear hazards.
		2nd(17.10.2023)	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes
		3rd(18.10.2023)	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes
		4th(19.10.2023)	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
12	12th Week	1st(31.10.2023)	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
		2nd(31.10.2023)	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
		3rd(01.11.2023)	6.1. Form unsustainable to sustainable development

		4th(02.11.2023)	6.2. Urban problems related to energy.
13	13th Week	1st(07.11.2023)	6.3. Water conservation, rain water harvesting, water shed
		2nd(07.11.2023)	6.4. Resettlement and rehabilitation of people; its problems and concern. management.
		3rd(08.11.2023)	6.5. Environmental ethics: issue and possible solutions.
		4th(09.11.2023)	6.6. Climate change, global warming, acid rain, ozone layer
14	14th Week	1st(14.11.2023)	depletion, nuclear accidents and holocaust, case studies
		2nd(14.12.2022)	6.7. Air (prevention and control of pollution) Act
		3rd(15.11.2023)	6.8. Water (prevention and control of pollution) Act.
		4th(16.11.2023)	6.9. Public awareness.
15	15th Week	1st(21.11.2023)	7.1. Population growth and variation among nations
		2nd(21.12.2022)	7.1. Population growth and variation among nations
		3rd(22.11.2023)	7.2. Population explosion- family welfare program.
		4th(23.11.2023)	7.2. Population explosion- family welfare program.
16	16th Week	1st(28.11.2023)	7.3. Environment and humanhealth.
		2nd(28.12.2022)	7.4. Human rights.
		3rd(29.11.2023)	7.5. Value education
		4th(30.11.2023)	7.6. Role of information technology in environment and human health.