LESSON PLAN FOR ENVIRONMENTAL STUDIES (Th5)		
Discipline: ELECTRICAL ENGINEERING	Semester: 3rd	Name of the Teaching Faculty: SUBHRA PRATIK SAHOO (GF)
Subject: ENVIRONMENTAL STUDIES	No. of days per week class allotted: 4	Semester From Date : 16.08.2024 To Date : 08.11.2024 No. of Weeks : 12 Session: 2024-25
Week	Class Day	Theory
1st	1st	**1. The Multidisciplinary nature of environmental studies:** Definition, scope and importance.
	2nd	1.2 Need for public awareness.(cont.)
	3rd	1.2 Need for public awareness.
	4th	**2. Natural Resources:** Natural resources and associated problems.
2nd	1st	2.1.1. Forest resources: Use and over-exploitation, deforestation, case Studies, Timber extraction mining, dams and their effects on forests andtribal people.
	2nd	2.1.2. Water resources: Use and over-utilization of surface and groundwater, floods, drought, conflicts over water, dam's benefits and Problems.
	3rd	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	4th	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,
3rd	1st	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	2nd	2.1.6. Land Resources: Land as a resource, land degradation, maninduces landslides, soil erosion, and desertification.
	3rd	2.2 Role of individual in conservation of natural resources. 2.3 Equitable use of resources for sustainable life styles.
	4th	**3. System:** Concept of an eco system. 3.2. Structure and function of an eco system.
4th	1st	3.3. Producers, consumers, decomposers.
	2nd	Energy flow in the eco systems. Ecological succession.
	3rd	3.6. Food chains, food webs and ecological pyramids. 3.7. Introduction, types, characteristics features structure and functionof the following eco system
	4th	3.8. Forest ecosystem 3.9. Aquatic eco systems (ponds, streams, lakes,rivers, oceans,
5th	1st	**4. Biodiversity and it's Conservation:**
	2nd	4.2. Biogeographically classification of India.
	3rd	Marine pollution

	4th	4.3. Value of biodiversity: consumptive use, productive use, (cont.)

6th	1st	Noise pollution.
	2nd	5.1.6 Thermal pollution
	3rd	5.1.7 Nuclear hazards.
	4th	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
7th	1st	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. (Cont.)
	2nd	5.3. Role of an individual in prevention of pollution.
	3rd	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	4th	Question answer session.
8th	1st	**6. Social issues and the Environment:** Form unsustainable to sustainable development.
	2nd	6.2. Urban problems related to energy.
	3rd	6.3. Water conservation, rain water harvesting, water shed management.
	4th	6.4. Resettlement and rehabilitation of people; its problems and concern.
9th	1st	6.5. Environmental ethics: issue and possible solutions.
	2nd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	3rd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.(Cont.)
	4th	6.7. Air (prevention and control of pollution) Act.
10th	1st	6.8. Water (prevention and control of pollution) Act.
	2nd	6.9. Public awareness.
	3rd	**7. Human population and the environment:** Population growth and variation among nations.
	4th	7.2. Population explosion- family welfare program.
11th	1st	7.3. Environment and human health.
	2nd	7.4. Human rights.
	3rd	7.5. Value education
	4th	7.6. Role of information technology in environment and human health.
12th	1st	Public awareness.
	2nd	7.6. Role of information technology in environment and human health.
	3rd	7.6. Role of information technology in environment and human health.(cont.)
	4th	7.6. Role of information technology in environment and human health.(cont.)

16/08/24
Signature of Faculty

16/08/24
HOD Electrical Engg.

16.08.2024
Academic Co-coordinator