


Lesson Plan

Discipline: ETC		Semester-3rd Winter2023	Name of the Teaching Faculty: JOGESWAR NAIK(Lecturer ETC)
Sl. No.	Subject-Th.5 Environmental Studies	No. Of Days/Week class allotted:04	Semester From date: 01.08.2023 To date: 30.11.2023 No of weeks: 17
Weeks/Months		Class Day	Topic
1	1st week Aug to 5th week Aug	1st	1. The Multidisciplinary nature of environmental studies: 1.1 Definition, scope and importance.
		2nd	1.2 Need for public awareness.
		3rd	2. Natural Resources: Renewable and non renewable resources: 2.1 Natural resources and associated problems.
		4th	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	2nd week 7th Aug to 12th Aug	1st	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	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
		3rd	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.
		4th	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
3	3rd Week 14th Aug to 19th Aug	1st	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
		2nd	2.2 Role of individual in conservation of natural resources.
		3rd	2.3 Equitable use of resources for sustainable life styles.
		4th	3. Systems:
4	4th week 21th Aug to 26th Aug	1st	3.1. Concept of an eco system.
		2nd	3.2. Structure and function of an eco system.
		3rd	3.3. Producers, consumers, decomposers.
		4th	3.4. Energy flow in the eco systems.

5	5th week 28th Aug to 2nd Sept	1st	3.5. Ecological succession.
		2nd	3.6. Food chains, food webs and ecological pyramids.
		3rd	3.7. Introduction, types, characteristic features, structure and function of the following eco system:
		4th	3.8. Forest ecosystem:
6	1st week 4th Sept to 9th sept	1st	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
		3rd	4. Biodiversity and it's Conservation:
		3rd	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
		4th	4.2. Biogeographically classification of India.
7	2nd week 11th sept to 16th sept.	1st	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.
		2nd	4.4. Biodiversity at global, national and local level.
		3rd	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
		4th	5. Environmental Pollution:
8	3rd week 18th sept. to 23rd sept	1st	5.1. Definition Causes, effects and control measures of:
		2nd	5.1.1 Air pollution.
		3rd	5.1.2 Water pollution.
		4th	5.1.3 Soil pollution.
9	4th week 25th Sept to 30th sept	1st	5.1.4 Marine pollution.
		2nd	5.1.5 Noise pollution.
		3rd	5.1.6 Thermal pollution.
		4th	5.1.7 Nuclear hazards.
10	1st week 02nd oct. to 07th oct	1st	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
		2nd	5.3. Role of an individual in prevention of pollution.
		3rd	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
		4th	6. Social issues and the Environment:
11	2nd week 9th oct. to 14th oct	1st	6.1. 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.

12	3rd week 16th oct to 20th oct.	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	6.7. Air (prevention and control of pollution) Act.
		4th	6.8. Water (prevention and control of pollution) Act.
13	1st week 30th oct. to 04th Nov	1st	6.9. Public awareness.
		2nd	7. Human population and the environment:
		3rd	7.1. Population growth and variation among nations
		4th	7.2. Population explosion- family welfare program.
14	2nd week 6th Nov to 11th Nov	1st	7.3. Environment and humanhealth.
		2nd	7.4. Human rights.
		3rd	7.5. Value education
		4th	7.6. Role of information technology in environment and human health.
16	4th week 20th Nov to 25th	4th	5.1.2 Water pollution.
17	5th week 27th Nov to 30th Nov	1st	2.3 Equitable use of resources for sustainable life styles.
		2nd	4.2. Biogeographically classification of India.
		3rd	3.1. Concept of an eco system.
		4th	3.1. Concept of an eco system.


 Signature of the Teacher