

Bhubanananda Orissa School of Engineering

Lesson Plan

Discipline: E&TC	Semester:3rd	Name of the Teaching Faculty: MIHIR KUMAR MOHANTY
Subject: Environmental Studies	No of Days/per week class allotted:4(MON,THU,FRI,SAT)	Semester from 01.07 2024 to 08.11.2024 No of weeks: 18
Week No.	Class Day	Theory Topics
1 st	01-07-2024	1.The Multidisciplinary nature of environmental studies: Definition, scope and importance.
	04-07-2024	Need for public awareness
	05-07-2024	2.Natural Resources: Renewable and non-renewable resources: 2.1 Natural resources and associated problems.
	06-07-2024	2.1.1. Forest resources: Use and over-exploitation
2 nd	08-07-2024	Deforestation, case studies, Timber extraction mining
	11-07-2024	Dams and their effects on forests and tribal people.
	12-07-2024	2.1.2. Water resources: Use and over-utilization of surface and Ground water.
	13-07-2024	Floods, drought, conflicts over water, dams Benefits and problems.
3 rd	15-07-2024	2.1.3. Mineral Resources: Use and exploitation, environmental
	18-07-2024	Effects of extracting and using mineral resources. 2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing.
	19-07-2024	Effects of modern Agriculture, fertilizers- pesticides problems, water logging, Salinity.
	20-07-2024	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy Sources, case studies.

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4 th	22-07-2024	2.1.6. Land Resources: Land as a resource, land degradation.
	25-07-2024	Man induces landslides, soil erosion, and desertification.
	26-07-2024	2.2 Role of individual in conservation of natural resources.
	27-07-2024	3. Eco-system 3.1 Concept of an eco-system 3.2. Structure and function of an eco-system.
5 th	29-07-2024	3.3. Producers, consumers, decomposers.
	01-08-2024	3.4. Energy flow in the eco systems.
	02-08-2024	3.5. Ecological succession 4. Biodiversity and it's Conversion
	03-08-2024	3.6. Food chains, food webs and ecological pyramids.
6 th	05-08-2024	3.7. Introduction, types, characteristic features, structure and function of theEco system.
	08-08-2024	3.8. Forest ecosystem.
	09-08-2024	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). Definition Causes, effects and control measures of:
	10-08-2024	CLASS TEST-I
7 th	12-08-2024	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
	16-08-2024	4.2. Biogeographically classification of India.
	17-08-2024	4.3. Value of biodiversity: consumptive use, productive use
8 th	22-08-2024	Social ethical, Aesthetic and opting values.
	23-08-2024	4.4. Biodiversity at global, national and local level.
	24-08-2024	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man Wildlife conflicts

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9 th	29-08-2024	5. Environmental pollution. Definition Causes, effects and control measures of:
	30-08-2024	5.1.1 Air pollution.
	31-08-2024	5.1.2 Water pollution
10 th	02-09-2024	5.1.3 Soil pollution
	05-09-2024	5.1.4 Marine pollution
	06-09-2024	5.1.5 Noise pollution.
11 th	09-09-2024	5.1.6 Thermal pollution
	12-09-2024	5.1.7 Nuclear hazards.
	13-09-2024	INTERNAL ASSESSMENT-I
	14-09-2024	INTERNAL ASSESSMENT-I
12 th	19-09-2024	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	20-09-2024	5.3. Role of an individual in prevention of pollution.
	21-09-2024	5.4. Disaster management: Floods, earth quake. Social issues and the Environment.
13 th	23-09-2024	5.4. Disaster management: Cyclone and landslides. Social issues and the Environment.
	26-09-2024	6.Social issues of the environment 6.1. From unsustainable to sustainable development.
	27-09-2024	6.2. Urban problems related to energy.
	28-09-2024	6.3. Water conservation, rain water harvesting, water shed management.
14 th	30-09-2024	6.4. Resettlement and rehabilitation of people; its problems and concern.
	03-10-2024	6.5. Environmental ethics: issue and possible solutions.
	04-10-2024	Ozone layer depletion, nuclear accidents and holocaust, case studies
	05-10-2024	6.6. Climate change, global warming, acid rain
		6.7. Air (prevention and control of pollution) Act.

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15 th	14-10-2024	6.8. Water (prevention and control of pollution) Act.
	17-10-2024	6.9. Public awareness.
	18-10-2024	CLASS TEST-II
	19-10-2024	7.1. Population growth and variation among nations.
16 th	21-10-2024	7.2. Population explosion- family welfare program.
	24-10-2024	7.3. Environment and human health.
	25-10-2024	7.4. Human rights.
	26-10-2024	7.5. Value education
17 th	28-10-2024	7.6. Role of information technology in human health.
	01-11-2024	OVERALL REVISION
	02-11-2024	OVERALL REVISION
18 th	04-11-2024	OVERALL REVISION
	07-11-2024	PREVIOUS YEAR QUESTION & ANSWER DISCUSSION
	08-11-2024	PREVIOUS YEAR QUESTION & ANSWER DISCUSSION

Signature of Faculty

HOD,E&TC

Principal

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