BHUBANANANDA ORISSA SCHOOL OF ENGINEERING

LESSON PLAN

BY: PRAFULLA KUMAR PANDA

SUBJECT: ENVIRONMENT STUDIES

SEMESTER: 3RD

BRANCH: AE&I

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Lesson Plan

Discipline: AE&I	Semester:3rd	Name of the Teaching Faculty: Prafulla Kumar Panda
Subject: Environment Studies	No of Days/per week class allotted:4	Semester from 01.10 2021 to 08.01.2022 No of weeks:14
Week No.	Class Day MON,TUE,WED,THU	Theory Topics
1st	05-10-2021	**1.The Multidisciplinary nature of environmental studies:** Definition, scope and importance. Need for public awareness
	07-10-2021	**2.Natural Resources: Renewable and non-renewable resources:** 2.1 Natural resources and associated problems.
2nd	21-10-2021	2.1.1. Forest resources: Use and over-exploitation
3rd	25-10-2021	Deforestation, case studies, Timber extraction mining, Dams and their effects on forests and tribal people.
	26-10-2021	2.1.2. Water resources: Use and over-utilization of surface and Ground water.
	27-10-2021	Floods, drought, conflicts over water, dams Benefits and problems.
	28-10-2021	2.1.3. Mineral Resources: Use and exploitation, Environmental effects of extracting and using mineral resources.
4th	01-11-2021	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.
	02-11-2021	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy Sources, case studies.
	03-11-2021	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
		REVISION
5th	08-11-2021	**CLASS TEST-I**
	09-11-2021	**3. Eco-system** 3.1 Concept of an eco-system 3.2. Structure and function of an eco-system.
	10-11-2021	3.3. Producers, consumers, decomposers. 3.4. Energy flow in the eco systems. 3.5. Ecological succession

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	12-11-2021	3.6. Food chains, food webs and ecological pyramids. 3.7. Introduction, types, characteristic features, structure and function of the Eco system.
6th	15-11-2021	3.8. Forest ecosystem. 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	16-11-2021	**4. Biodiversity and it's Conversion** 4.1. Introduction-Definition: genetics, species and ecosystem diversity.
	17-11-2021	4.2. Biogeographically classification of India. 4.3. Value of biodiversity: consumptive use, productive use, social ethical, Aesthetic and opting values.
7th	22-11-2021	4.4. Biodiversity at global, national and local level. 4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man Wildlife conflicts
	23-11-2021	**5. Environmental pollution.** Definition Causes, effects and control measures of: 5.1.1 Air pollution.
	24-11-2021	Definition Causes, effects and control measures of: 5.1.2 Water pollution
	26-11-2021	5.1.3 Soil pollution
8th	29-11-2021	5.1.4 Marine pollution 5.1.5 Noise pollution.
	30-11-2021	5.1.6 Thermal pollution 5.1.7 Nuclear hazards
	01-12-2021	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	03-12-2021	**Internal Assessment-I**
9th	06-12-2021	5.3. Role of an individual in prevention of pollution.
	07-12-2021	5.4. Disaster management: Floods, earth quake
	08-12-2021	Cyclone and landslides, Social issues and the Environment
	10-12-2021	**6.Social issues of the environment** 6.1. Form unsustainable to sustainable development.
10th	13-12-2021	6.2. Urban problems related to energy.
	14-12-2021	6.3. Water conservation, rain water harvesting, water shed management.

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	15-12-202	6.4. Resettlement and rehabilitation of people; its problems and concern.
	16-12-2021	6.5. Environmental ethics: issue and possible solutions.
11th	20-12-2021	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies
	21-12-2021	6.7. Air (prevention and control of pollution) Act.
	22-12-2021	6.8. Water (prevention and control of pollution) Act. 6.9. Public awareness.
	23-12-2021	**CLASS TEST-II**
12th	27-12-2021	7.1. Population growth and variation among nations.
	28-12-2021	7.2. Population explosion- family welfare program.
	29-12-2021	7.3. Environment and human health.
	30-12-2021	7.4. Human rights.
13th	03-01-2022	7.5. Value education
	04-01-2022	7.6. Role of information technology in environment.
	05-01-2022	7.6. Role of information technology inhuman health.
	07-01-2022	OVERALL REVISION

Signature of Faculty

HOD, AE&I **Academic Coordinator** **Principal**

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