

# Bhubanananda Orissa School of Engineering

## Lesson Plan

<b>Discipline:</b> E&TC	<b>Semester:</b> 3 <sup>rd</sup>	<b>Name of the Teaching Faculty:</b> Jyoti Prakash Behura
<b>Subject:</b> Environment Studies	No of Days/per week class allotted:4	Semester from 01.10 2021 to 08.01.2022 No of weeks:14
<b>Week No.</b>	<b>Class Day</b> MON, TUE WED, FRI	<b>Theory Topics</b>
1 <sup>st</sup>	01-10-2021	<b>1.The Multidisciplinary nature of environmental studies:</b> Definition, scope and importance.
2 <sup>nd</sup>	04-10-2021	Need for public awareness
	05-10-2021	<b>2.Natural Resources: Renewable and non-renewable resources:</b> 2.1 Natural resources and associated problems.
	08-10-2021	2.1.1. Forest resources: Use and over-exploitation
3 <sup>rd</sup>	22-10-2021	Deforestation, case studies, Timber extraction mining, Dams and their effects on forests and tribal people.
4 <sup>th</sup>	25-10-2021	2.1.2. Water resources: Use and over-utilization of surface and Ground water,.
	26-10-2021	Floods, drought, conflicts over water, dams Benefits and problems.
	27-10-2021	2.1.3. Mineral Resources: Use and exploitation, environmental
	29-10-2021	Effects of extracting and using mineral resources.
5 <sup>th</sup>	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.
	05-11-2021	2.2 Role of individual in conservation of natural resources.
		1 <sup>st</sup> Class Test
6 <sup>th</sup>	08-11-2021	<b>3. Eco-system</b> 3.1 Concept of an eco-system
	09-11-2021	3.2. Structure and function of an eco-system. 3.3. Producers, consumers, decomposers.

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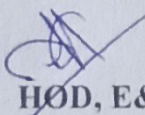
	10-11-2021	3.4. Energy flow in the eco systems. 3.5. Ecological succession
	12-11-2021	3.6. Food chains, food webs and ecological pyramids. 3.7. Introduction, types, characteristic features, structure and function of theEco system.
7 <sup>th</sup>	15-11-2021	3.8. Forest ecosystem. 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	16-11-2021	<b>4. Biodiversity and it's Conversion</b> 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.
8 <sup>th</sup>	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	<b>5. Environmental pollution.</b>  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
9 <sup>th</sup>	29-11-2021	5.1.4 Marine pollution  2 <sup>nd</sup> Class Test
	30-11-2021	5.1.5 Noise pollution.
	01-12-2021	5.1.6 Thermal pollution
	03-12-2021	5.1.7 Nuclear hazards.  1 <sup>st</sup> Internal
10 <sup>th</sup>	06-12-2021	5.2. Solid waste Management: Causes, effects and control measures of urbanand industrial wastes.
	07-12-2021	5.3. Role of an individual in prevention of pollution.
	08-12-2021	5.4. Disaster management: Floods, earth quake, cyclone and landslides. Social issues and the Environment:

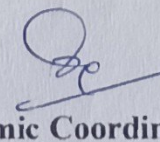
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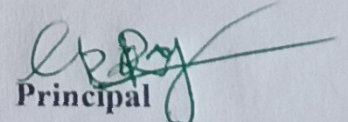
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	10-12-2021	<b>6.Social issues of the environment</b> 6.1. Form unsustainable to sustainable development.
11 <sup>th</sup>	13-12-2021	6.2. Urban problems related to energy.
	14-12-2021	6.3. Water conservation, rain water harvesting, water shed management.
	15-12-2021	6.4. Resettlement and rehabilitation of people; its problems and concern.
	17-12-2021	6.5. Environmental ethics: issue and possible solutions.
12 <sup>th</sup>	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.
	24-12-2021	6.9. Public awareness.
13 <sup>th</sup>	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.
	31-12-2021	7.4. Human rights.
14 <sup>th</sup>	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 in human health.
	07-01-2022	OVERALL REVISION
		2 <sup>nd</sup> Internal

*Jyoti Prakash Behera*  
Signature of Faculty

  
HOD, E&TC

  
Academic Coordinator

  
Principal