

**BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK  
DEPARTMENT OF CIVIL ENGINEERING**



**LESSON PLAN**

SUBJECT: ENVIRONMENTAL STUDIES (TH 5)

FACULTY: MISS SWARNAPRAVA DEVI

ACCADEMIC SESSION: 2022-23

SEMESTER: 3<sup>RD</sup>

SEC: C

Sd/-  
H O D (Civil Engg.)

**BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**LESSON PLAN**

<b>Discipline:</b> Civil Engineering	<b>Semester:</b> 3 <sup>rd</sup> C		<b>Name of the teaching faculty:</b> MISS SWARNAPRAVA DEVI
<b>Subject:</b> ENVIRONMENTAL STUDIES	<b>No. of Days/ per week class allotted: 04 period per week. (Mon-01,Wed-01,Thu-01,Fri-01)</b>		<b>Semester From Date: 15-09-2022 To Date: 22-12-2022</b> <b>No. of weeks: 14 weeks</b>
<b>Week</b>	<b>Class Day</b>	<b>No of period available</b>	<b>Theory Topics</b>
1ST	15/9/2022	1	<b>1.The multidisciplinary nature of environmental studies</b> 1.1 Definition 1.2 Scope and importance
	16/9/2022	1	1.3 Need for public awareness
2ND	19/9/2022	1	<b>2. Natural resources</b> 2.1 Renewable and Non Renewable resources: 2.1.Natural resources and associated problems,
	21/9/2022	1	Water resources
	22/9/2022	1	Mineral resources, Food resources
	23/9/2022	1	Energy Resources ,Land Resources
3RD	26/9/2022	1	2.2 Role of individual in conservation of natural resources.
	28/9/2022	1	2.3 Equitable use of resources for sustainable life styles.
	29/9/2022	1	<b>3.Systems</b> 3.1.1 Concept of an Eco system
	30/9/2022	1	3.2 Structure and function of an Eco system.
4TH	10/10/2022	1	3.3 Producers, consumers, decomposers. 3.4 Energy flow in the eco systems. 3.5 Ecological succession
	12/10/2022	1	3.6 Food chains, food webs and ecological pyramids 3.7 Introduction, types, characteristic features, structure and function of the following eco system:
	13/10/2022	1	3.7 Forest ecosystem
	14/10/2022	1	3.8 Aquatic eco systems
5TH	17/10/2022	1	<b>4.Biodiversity and its conservation</b>

**BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**LESSON PLAN**

			4.1 Introduction-Definition 4.1.1 Genetics diversity 4.1.2 Species diversity 4.1.3 Ecosystem diversity
	19/10/2022	1	4.3 Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	20/10/2022	1	4.3 Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	21/10/2022	1	4.4 Biodiversity at global, national and local level.
6TH	26/10/2022	1	<b>CLASS TEST-1</b>
	27/10/2022	1	4.5 Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts
	28/10/2022	1	Revision on previous chapters
7TH	31/10/2022	1	5. Environmental Pollution 5.1 Definition
	02/11/2022	1	5.1.1 Air pollution ; Causes, effects and control measures
	03/11/2022	1	5.1.2 Water pollution ; Causes, effects and control measures
	04/11/2022	1	5.1.3 Soil pollution ; Causes, effects and control measures
8TH	07/11/2022	1	5.1.4 Marine pollution; Causes, effects and control measures
	09/11/2022	1	5.1.5 Noise pollution; Causes, effects and control measures
	10/11/2022	1	5.1.6 Thermal pollution
	11/11/2022	1	5.1.7 Nuclear hazards
9TH	14/11/2022	1	5.2 Solid waste Management
	16/11/2022	1	<b>INTERNAL ASSESMENT</b>
	17/11/2022	1	5.2 Causes and Effects
	18/11/2022	1	5.2 Control measures of urban and industrial wastes
10TH	21/11/2022	1	5.3 Role of an individual in prevention of pollution
	23/11/2022	1	5.4 Disaster management: Floods, earth quake, cyclone and landslides
	24/11/2022	1	6. Social issues and the Environment
	25/11/2022	1	6.1. Form unsustainable to sustainable development

**BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**LESSON PLAN**

			6.2 Urban problems related to energy
11TH	28/11/2022	1	<b>CLASS TEST-2</b>
	30/11/2022	1	6.3 Water conservation, rain water harvesting, water shed management 6.4 Resettlement and rehabilitation of people; its problems and concern
	01/12/2022	1	6.5 Environmental ethics: issue and possible solutions
	02/12/2022	1	6.6 Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies
12TH	05/12/2022	1	6.7 Water (prevention and control of pollution) Act
	07/12/2022	1	6.8 Public awareness
	08/12/2022	1	7.Human population and the environment 7.1Population growth and variation among nations
	09/12/2022	1	7.2 Population explosion- family welfare program
13TH	12/12/2022	1	7.3 Environment and human health
	14/12/2022	1	7.4 Value education
	15/12/2022	1	<b>CLASS TEST-3</b>
	16/12/2022	1	7.5 Role of information technology in environment and human health
14TH	19/12/2022	1	REVISION
	21/12/2022	1	PREVIOUS YEAR QUESTION
	22/12/2022	1	PREVIOUS YEAR QUESTION