

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



LESSON PLAN

SUBJECT: ENVIRONMENTAL ENGINEERING (TH 5)

FACULTY: MISS NICKY PATTNAIK

ACCADEMIC SESSION: 2022-23

SEMESTER: 3RD

SEC: A

Sd/-
H O D (Civil Engg.)

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Discipline: Civil Engineering	Semester: 3 rd		Name of the teaching faculty: MISS NICKY PATTNAIK
Subject: ENVIRONMENTAL ENGINEERING	No. of Days/ per week class allotted: 04 period per week. (Mon-02,Wed-01,Thu- 01)		Semester From Date: 15-09-2022 To Date: 22-12-2022 No. of weeks: 14 weeks
Week	Class Day	No of period available	Theory Topics
1ST	15/9/2022	1	1.The multidisciplinary nature of environmental studies 1.1 Definition 1.2 Scope and importance 1.3 Need for public awareness
2ND	19/9/2022	2	2. Natural resources 2.1 Renewable and Non Renewable resources: 2.1.Natural resources and associated problems, Forest Resource
	21/9/2022	1	Water resources
	22/9/2022	1	Mineral resources, Food resources
3RD	26/9/2022	2	Energy Resources ,Land Resources 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	3.Systems 3.1.1 Concept of an Eco system 3.2 Structure and function of an Eco system.
4TH	10/10/2022	2	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 3.8 Aquatic eco systems

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5TH	17/10/2022	2	4.Biodiversity and its conservation 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 4.4 Biodiversity at global, national and local level.
6TH	26/10/2022	1	4.4 Biodiversity at global, national and local level
	27/10/2022	1	CLASS TEST-1
7TH	01/11/2022	2	4.5 Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts Revision on previous chapters
	02/11/2022	1	5. Environmental Pollution 5.1 Definition
	03/11/2022	1	5.1.1 Air pollution ; Causes, effects and control measures
8TH	07/11/2022	2	5.1.2 Water pollution ; Causes, effects and control measures 5.1.3 Soil pollution ; Causes, effects and control measures
	09/11/2022	1	5.1.4 Marine pollution; Causes, effects and control measures
	10/11/2022	1	5.1.5 Noise pollution; Causes, effects and control measures
9TH	14/11/2022	2	5.1.6 Thermal pollution 5.1.7 Nuclear hazards
	16/11/2022	1	INTERNAL ASSESMENT
	17/11/2022	1	5.2 Solid waste Management 5.2 Causes and Effects
10TH	21/11/2022	2	5.2 Control measures of urban and industrial wastes 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 6.1. Form unsustainable to sustainable development

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