BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK

DEPARTMENT OF ELECTRICAL ENGINEERING

LESSON PLAN



- SUBJECT : ENVIRONMENTAL STUDIES
- FACULTY : Er. IPSITA MOHANTY

ACADEMIC SESSION: 2024-25 SEMESTER:3RD SECTION:A

Discipline:	Semester: 3RD (A)	Name of the teaching faculty: Er. IPSITA MOHANTY
Electrical Engg.		
Subject- ENVIRONMENTAL	No. of Days/per week class	Semester: From Date: 01/07/2024 To Date:08/11/2024
STUDIES	allotted:04 PERIODS/WEEK	No. of weeks: 19 WEEKS
	(TUE,WED,THU,FRI-1 period	NO. OF WEEKS: 19 WEEKS
	each)	
Week	Class Day	Theory Class
1 st (01/07/2024-06-07-2024)	02/07/2024	 The Multidisciplinary nature of environmental studies: 1.1 Definition, scope and importance
	03/07/2024	1.1 Definition, scope and importance
	04/07/2024	1.2 Need for public awareness
	05/07/2024	1.2 Need for public awareness.
2 nd (08/07/2024-13/07/2024)	09/07/2024	2. Natural Resources: Renewable and non renewable resources: 2.1 Natural resources and associated problems.
	10/07/2024	2.1.1 Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	11/07/2024	2.1.1 Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, 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, floods, drought, conflicts over water, dam's benefits and problems.
3 rd (15/07/2024-20/07/2024)	16/07/2024	2.1.2 Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems
	18/07/2024	2.1.3 Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	19/07/2024	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.
4 th (22/07/2024-27/07/2024)	23/07/2024	2.1.5 Energy Resources: Growing energy need, renewable and non
	24/07/2024	2.1.5 Energy Resources: Growing energy need, renewable and non
	25/07/2024	2.1.6 Land Resources: Land resources, land degradation, man induces landslides, soil erosion, and desertification
	26/07/2024	2.2 Role of individual in conservation of natural resources
5 th (29/07/2024-03/08/2024)	30/07/2024	2.3 Equitable use of resources for sustainable life styles
	31/07/2024	3.Systems: 3.1 Concept of an eco system.
	01/08/2024	3.2 Structure and function of an eco system.
	02/08/2024	3.3 Producers, consumers, decomposers.
6 th (05/08/2024-10/08/2024)	06/08/2024	3.4 Energy flow in the eco systems.
	07/08/2024	3.5 Ecological succession.
	08/08/2024	3.6 Food chains, food webs and ecological pyramids.
	09/08/2024	3.7 Introduction, types, characteristic features, structure and function of the following eco system:

7 th (12/08/2024-17/08/2024)	13/08/2024	3.8 Forest ecosystem
	14/08/2024	3.8Forest ecosystem
	16/08/2024	3.9 Aquatic eco systems (ponds, streams, lakes, rivers, oceans estuaries).
8 th (19/08/2024-24/08/2024)	20/08/2024	3.9 Aquatic eco systems (ponds, streams, lakes, rivers, oceans estuaries).
	21/08/2024	4.Biodiversity and it's Conservation: 4.1 Introduction-Definition: genetics, species and ecosystem diversity.
	22/08/2024	4.2 Biogeographically classification of India.
	23/08/2024	4.2 Biogeographically classification of India.
9 th (26/08/2024-31-08/2024)	27/08/2024	4.3 Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	28/08/2024	4.3 Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	29/08/2024	4.4 Biodiversity at global
	30/08/2024	4.4 Biodiversity at global
10 th (02/09/2024-07/09/2024)	02/09/2024	4.5 Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts
	03/09/2024	4.5 Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts
	05/09/2024	5.Environmental Pollution:
		5.1. Definition Causes, effects and control measures of: 5.1.1Air pollution.
	06/09/2024	5.1.2Water pollution.
11 th (09/09/2024-14/09/2024)	10/09/2024	5.1.3Soil pollution
	11/09/2024	5.1.4 Marine pollution

	12/09/2024	INTERNAL ASSESEMENT
	13/09/2024	INTERNAL ASSESEMENT
12 th (16/09/2024-21/09/2024)	17/09/2024	5.1.5 Noise pollution.
	18/09/2024	5.1.6Thermal pollution
	19/09/2024	5.1.6Thermal pollution
	20/09/2024	5.1.7Nuclear hazards.
13 th (23/09/2024-28/09/2024)	24/09/2024	Quiz Test
	25/09/2024	5.2Role of an individual in prevention of pollution.
	26/09/2024	5.3Disaster management: Floods, earth quake, cyclone and landslides.
	27/09/2024	6.Social issues and the Environment:
		6.1. Form unsustainable to sustainable development.6.2. Urban problems related to energy.
14 th (30/09/2024-05/10/2024)	01/10/2024	6.3 Water conservation, rain water harvesting, water shed management.
	03/10/2024	6.4Resettlement and rehabilitation of people; its problems and concern.
	04/10/2024	6.5Environmental ethics: issue and possible solutions.
15 th (07/10/2024-12/10/2024)	08/10/2024	Puja Holidays
	09/10/2024	Puja Holidays
	10/10/2024	Puja Holidays
	11/10/2024	Puja Holidays

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16 th (14/10/2024-19/10/2024)	15/10/2024	6.6 Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	17/10/2024	6.7Air (prevention and control of pollution) Act.
	19/10/2024	6.8Water (prevention and control of pollution) Act.
17 th (21/10/2024-26/10/2024)	22/10/2024	6.9 Public awareness.
	23/10/2024	Class Test-2.
	24/10/2024	7.Human population and the environment:
		7.1 Population growth and variation among nations
	25/10/2024	7.2 Population explosion- family welfare program
18 th (28/10/2024-02/11/2024)	29/10/2024	7.3 Environment and human health.
	30/11/2024	7.4 Human rights
	01/11/2024	7.5 Value education
19 th (04/11/2024-08/11/2024)	05/11/2024	7.6 Role of information technology in environment and human health
	06/11/2024	Revision
	07/11/2024	PREVIOUS YEAR QUESTION DISCUSSION
	08/11/2024	PREVIOUS YEAR QUESTION DISCUSSION