

PNS SCHOOL OF ENGINEERING & TECHNOLOGY MARSHAGHAI KENDRAPARA

Semester:3RD

LESSON PLAN Subject: Environmental studies

Branch:Mechanical Engineering

Name of the Faculty Member: SUBARNA KESHARI SINGH

Period	DATE	Module/ Number	Topic to be covered
1	9/15/2022	UNIT-1	The Multidisciplinary nature of environmental studies Definition Of Environmental Studies; introduction to environmental studies
2	9/16/2022		Scope Of Environmental Studies
3	9/20/2022		Importance Of Environmental Studies
4	9/22/2022		Need for public awareness
5	9/23/2022	UNIT-2	Natural Resources :Renewable and non renewable resources: Forest resources: Use and over-exploitation, deforestation, case studies
6	9/24/2022		Timber extraction mining, dams and their effects on forests and tribal people
7	9/27/2022		Water resources: Use and over-utilization of surface and ground water, floods , Drought, conflicts over water, dam's benefits and problems
8	9/28/2022		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources
9	9/29/2022		Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture
10	9/30/2022		Fertilizers- pesticides problems, water logging, salinity
11	10/11/2022		Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
12	10/13/2022		Land Resources: Land as a resource, land degradation
13	10/14/2022		Man induces land slides, soil erosion, and desertification ,Role of individual in conservation of natural resources, Equitable use of resources for sustainable life styles
14	10/15/2022		Discussion of important questions

15	10/18/2022	UNIT-3	Systems: Concept of an eco system, Structure and function of an eco system
16	10/20/2022		Producers, consumers, decomposers : definitions and their role in an ecosystem
17	10/21/2022		Energy flow in an ecosystem, Ecological succession

18	10/22/2022		Food chains, food webs
19	10/27/2022		Ecological pyramids, Introduction, types, characteristic features Of Forest Ecosystem
20	10/28/2022		Structure and Function Forest ecosystem:
21	10/29/2022		Introduction and types of Aquatic eco systems
22	11/1/2022		Characteristics of Aquatic eco systems, Structure and Function of Aquatic eco systems
23	11/2/2022		Discussion of important questions
24	11/3/2022	UNIT-4	Biodiversity and its conservation Introduction- Definition Genetics, Species and Ecosystem diversity
25	11/4/2022		Bio-geographical classification of India
26	11/5/2022		Value of biodiversity: consumptive use, productive use
27	11/9/2022		Social ethical, aesthetic values
28	10/11/2022		Biodiversity at global, national and local level.
29	11/11/2022		Threats to biodiversity
30	11/14/2022		Habitats loss
31	11/15/2022		Poaching of wild life man wildlife conflicts
32	11/17/2022		DISCUSSIONS ON CHAPTERS COVERED
33	11/18/2022		UNIT-5
34	11/19/2022	Definition, Causes& effects of Air Pollution ,Control measures of Air Pollution	
35	11/22/2022	Definition, Causes& effects of Water Pollution, Control measures of Water Pollution	
36	11/23/2022	REVISION OF PREVIOUS YEAR QUESTIONS	
37	11/24/2022	Definition, Causes&effects of Soil Pollution, Control measures of Soil Pollution	
38	11/25/2022	DISCUSSIONS ON INTERNAL QUESTIONS AND DISTRIBUTION OF EVALUATED ANSWER SHEETS	
39	11/26/2022	Definition ,Causes & effects of Marine Pollution ,Control measures of Marine Pollution	
40	11/28/2022	Definition ,Causes& effects of Noise Pollution, Control measures of Noise Pollution	
41	11/29/2022	Definition, Causes& effects of Thermal Pollution, Control measures of Thermal Pollution	
42	11/30/2022	Definition, Causes,&effects of Nuclear Hazard, Control measures of Nuclear Hazard	
43	12/1/2022	Solid waste Management: Causes, effects and control measures of urban and industrial wastes, Role of an individual in prevention of pollution.	
44	12/2/2022	Disaster management: Floods, earth quake : precautionary measures to be taken during natural calamities , Cyclone and Land slides : precautionary measures to be taken during natural calamities	
45	12/3/2022	Discussion of important questions	
46	12/5/2022	Social issues and the Environment Form unsustainable to sustainable development , Urban problems related to energy, Importance of Water conservation	
47	12/6/2022		rain water harvesting, water shed management
48	12/7/2022		Resettlement and rehabilitation of people; its problems and concern

49	12/8/2022	UNIT-6	Environmental ethics: issue and possible solutions. Climate change, global warming
50	12/9/2022		Acid rain, Ozone layer depletion
51	12/10/2022		Discussion of important questions
52	12/12/2022		nuclear accidents and holocaust, case studies.
53	12/13/2022		Air (prevention and control of pollution) Act
54	12/14/2022		Water (prevention and control of pollution) Act
55	12/15/2022		Public awareness
56	12/16/2022	UNIT-7	Human population and the environment Population growth and variation among nations, Population explosion- family welfare program
57	12/17/2022		Environment and human health.
58	12/20/2022		Human rights: Equity, Nutrition, health and human rights, Intellectual Property Rights
59	12/21/2022		Value education ,Environmental Values, Valuing Nature,
60	12/22/2022		REVISION OF PREVIOUS YEAR QUESTIONS

Subarna Keshari Singh

Signature of faculty Member

Ramakant Swain

Counter signature of H.O.D