

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: Th-5(ENVIRONMENTAL STUDIES)

Name Of The Faculty :- Er NIRANJAN BARIK

Branch: - ELECTRICAL ENGINEERING

Session :- 2024-25

Semester: - 3rd

Examination :- 2024(w)

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	The Multidisciplinary nature of environmental studies	4	2
2	Natural Resources	10	14
3	Systems	8	9
4	Biodiversity and it's Conservation	8	10
5	Environmental Pollution	12	13
6	Social issues and the Environment	10	12
7	Human population and the environment	8	8
	Total Period:	60	68

Sign of Faculty

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EE	3rd	SESSION : 2024-25 EXAMINATION : 2024(W)		
Week	Class Day	Topics to be Covered		
*	1 st	Introduction to The Multidisciplinary nature of environmental studies		
1 st	2 nd	unit-1: The Multidisciplinary nature of environmental studies The Multidisciplinary nature of environmental studies: Definition, scope and importance.		
1)# av - 2 * 1	3 rd	Need for public awareness.		
	4 th	unit-2: Natural Resources Renewable and non renewable resources		
	1 st	Natural resources and associated problems.		
2 nd	2 nd	Forest resources: Use and over-exploitation, deforestation, case studies, Use and over-exploitation.		
	3 rd	Deforestation, case studies.		
	4 th	Timber extraction mining, dams and their effects on forestsand tribal people.		
	1 st	Mineral Resources: Use and exploitation.		
- rd	2 nd	environmental effects of extracting and using mineral resources.		
3 rd	3 rd	Food Resources: World food problems .		
	4 th	changes caused by agriculture and over grazing.		
4 th	1 st	Effects of modern agriculture , fertilizers pesticides problems, water logging, salinit		
	2 nd	Energy Resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources, casestudies.		
	3 rd	Land Resources: Land as a resource ,land degradation ,man induces landslides, soil erosion, and desertification.		
	4 th	Role of individual in conservation of natural resources.		
	1 st	Equitable use of resources for sustainable lifestyles.		
5 th	2 nd	Unit 3: Systems Concept of an ecosystem		
	3 rd	Structure and function of an ecosystem		
	4 th	Producers, consumers, decomposers		
	2 nd	Energy flow in the ecosystems.		
6 th	3 rd	Ecological succession. Food chains, food web sand ecological pyramids		
	4 th	Introduction, types, characteristic features, structure and function of the following ecosystem.		
_th	1 st	Forest ecosystem.		
7 th	2 nd	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).		

eek	Class Day	Topics to be Covered
	_ rd	Unit 4: Biodiversity and it's Conservation
7 th	3 rd	Introduction-Definition: genetics, species and ecosystem diversity.
	4 th	Biogeographically classification of India.
8 th	1 st	Value of biodiversity: consumptive use
	2 nd	Value of biodiversity: productive use
	3 rd	social ethical, aesthetic and opt in values.
	4 th	Biodiversity at global.
	1 st	national and local level.
	2 nd	Threats to biodiversity: Habitats loss
9 th	3 rd	Threats to biodiversity: poaching of wild life
	4 th	Threats to biodiversity:man wildlife conflicts.
	4	Unit 5: Environmental Pollution
	1 st	Definition Causes, effects and control measures of: Air pollution.
10 th	2 nd	Water pollution.
TO	3 rd	Soil pollution
	4 th	Marine pollution
	1 st	Noise pollution
th	2 nd	Thermal pollution
11 th	3 rd	Nuclear hazards.
	4 th	Solid waste Management: Causes, effects
, et	1 st	Control measures of urban and industrial wastes.
th.	2 nd	Role of an individual in prevention of pollution.
12 th	3 rd	INTERNAL ASSESMENT
	4 th	INTERNAL ASSESMENT
- E	1 st	Disaster management: Floods
	2 nd	Disaster management:earth quake
13 th	3 rd	Disaster management: cyclone and landslides
	4 th	Unit 6: Social issues and the Environment
		From unsustainable to sustainable development.
	1 st	Urban problems related to energy.
14 th	2 nd	Water conservation, rain water harvesting,
1-7	3 rd	water shed management.
	4 th	Resettlement and rehabilitation of people, its problems and concern.
	1 st	Environmental ethics: issue and possible solutions.
a =th	2 nd	Climate change, global warming
15 th	3 rd	
	4 th	nuclear accidents and holocaust, case studies
16 ^{tt}	h 1st	Air (prevention and control of pollution) Act
	2 ^{nc}	Water (prevention and control of pollution) Act

Week	Class Day	Topics to be Covered
A street to the street	3 rd	Public awareness.
16 th	4 th	Unit 7: Human population and the environment Population growth and variation among nations.
	1 st	Population explosion-family welfare program.
	2 nd	Environment and human health.
17 th	3 rd	Human rights.
	4 th	Value education
1	1 st	Value education
-th	2 nd	Role of information technology in environment and human health
18 th	3 rd	Role of information technology in environment and human health
	4 th	Revision .

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