



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 RAKESH KUMAR SETHI

Branch :- ELECTRICAL & ELECTRONICS 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

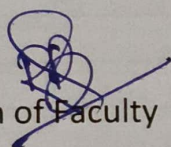
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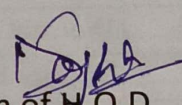
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Discipline: EEE	Semester: 3rd	Name of the Teaching Faculty: Er RAKESH KUMAR SETHI	
		SESSION : 2024-25	EXAMINATION : 2024(W)
Week	Class Day	Topics to be Covered	
1 st	1 st	Introduction to The Multidisciplinary nature of environmental studies	
	2 nd	unit-1: The Multidisciplinary nature of environmental studies	
	2 nd	The Multidisciplinary nature of environmental studies: Definition, scope and importance.	
	3 rd	Need for public awareness.	
2 nd	4 th	unit-2 : Natural Resources	
	4 th	Renewable and non renewable resources	
	1 st	Natural resources and associated problems.	
	2 nd	Forest resources: Use and over-exploitation, deforestation, case studies, Use and over-exploitation.	
3 rd	3 rd	Deforestation, case studies.	
	4 th	Timber extraction mining, dams and their effects on forests and tribal people.	
	1 st	Mineral Resources: Use and exploitation.	
	2 nd	environmental effects of extracting and using mineral resources.	
4 th	3 rd	Food Resources: World food problems .	
	4 th	changes caused by agriculture and over grazing.	
	1 st	Effects of modern agriculture , fertilizers pesticides problems, water logging, salinity.	
	2 nd	Energy Resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources, case studies.	
5 th	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.	
	2 nd	Unit 3: Systems	
6 th	2 nd	Concept of an ecosystem	
	3 rd	Structure and function of an ecosystem	
	4 th	Producers, consumers, decomposers	
	1 st	Energy flow in the ecosystems.	
7 th	2 nd	Ecological succession.	
	3 rd	Food chains, food web and ecological pyramids	
	4 th	Introduction, types, characteristic features, structure and function of the following ecosystem.	
	1 st	Forest ecosystem.	
	2 nd	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	

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

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


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