



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. Saroj kumar patra

Branch :- Automobile 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

S. K. Patra
29/06/24
Sign of Faculty

[Signature]
29/06/24
Sign of H.O.D.



Discipline: Automobile ENGINEERING	Semester: 3rd	Name of the Teaching Faculty: Er.Saroj kumar patra	
		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	
		The Multidisciplinary nature of environmental studies: Definition, scope and importance.	
	3 rd	Need for public awareness.	
2 nd	4 th	unit-2 : Natural Resources	
		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		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.	
Week	2 nd	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	
	Class Day	Topics to be Covered	

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

S.K. Patra
29/06/24
Sign of Faculty

MJ
Sign of H.O.D. 29/06/24