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. Abhilipsa Das
Branch :- CIVIL 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

A. Das 28/6/24
Sign of Faculty

28/06/24
Sign of H.O.D.

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

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

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

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