

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



LESSON PLAN

SUBJECT: Th5. ENVIRONMENTAL STUDIES

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	8
4	Biodiversity and it's Conservation	8	8
5	Environmental Pollution	12	17
6	Social issues and the Environment	10	17
7	Human population and the environment	8	9
	Total Period:	60	75

Discipline: ALL BRANCH	Semester: 3rd	Name of the Teaching Faculty: Mr. Rajat Kumar Sahoo
Week	Class Day	Theory / Practical Topics
1 st	1 st	The Multidisciplinary nature ofenvironmental studies: Definition, scope and importance.
	2 nd	Need for public awareness.
	3 rd	Natural Resources: Renewable and non renewable resources
	4 th	Natural resources and associated problems.
	5 th	Forest resources: Use and over-exploitation, deforestation, case studies,
2 nd	1 st	Timber extraction mining, dams and their effects on forests and tribal people
	2 nd	Water resources: Use and over-utilization of surface and ground water, floods, drought,
	3 rd	conflicts over water, dam's benefits and problems
	4 th	conflicts over water, dam's benefits and problems
	5 th	environmental effects of extracting and using mineral resources
3 rd	1 st	Food Resources: World food problems, changes caused by agriculture and over grazing
	2 nd	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,
	3 rd	Energy Resources: Growing energy need, renewable and non-renewable energy sources,
	4 th	use of alternate energy sources, case studies.
	5 th	LandResources: Landasaresource, landdegradation, man induces landslides, soil erosion, and desertification

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		Role of individual in conservation of natural resources.
	1 st	Equitable use of resources for sustainable life styles.
		Systems:
	2 nd	Concept of an eco system. Structure and function of an eco system.
		Producers, consumers, decomposers.
4 th	3 rd	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		Ecological succession.
	4 th	Ecological succession.
	4	
		For delicities for described and additional additional and additional addit
	th	Food chains, food webs and ecological pyramids.
	5 th	
		Introduction, types, characteristic features, structure and function of
	1 st	the following eco system
		Forest ecosystem:
	2 nd	
		Aquatic eco systems (ponds, streams, lakes, rivers, oceans)
5 th	3 rd	
		Energy flow in the eco systems
	4 th	,
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		Biodiversity and it's Conservation:
	5 th	Introduction-Definition:
		genetics, species and ecosystem diversity.
	1 st	Schedus, species and ecosystem diversity.
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		Biogeographically classification of India.
	2 nd	BIOSCOSI APITICATIVI CIASSITICATION OF ITILIIA.
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+h		Value of biodiversity: consumptive use, productive use
6 th	3 rd	
		social ethical, aesthetic and optin values.
	4 th	
		Biodiversity at global, national and local level.
	5 th	
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	1 st	Threats to biodiversity: Habitats loss, poaching of wild life
7 th	2 nd	man wildlife conflicts.
	3 rd	Environmental Pollution: Definition Causes, effects and control measures of different pollutions
	4 th	Air pollution.
	5 th	Water pollution
8 th	1 st	Soil pollution
	2 nd	Marine pollution
	3 rd	Noise pollution.
	4 th	Thermal pollution
	5 th	Nuclear hazards.
	1 st	Solid waste Management: Causes
9 th	2 nd	effects
	3 rd	control measures of urban and industrial wastes.
	4 th	Role of an individual in prevention of pollution
	5 th	Disaster management

1 st Floods 2 nd earth quake	
earth quake	
2 nd	
10 th 3 rd cyclone	
landslides.	
4 th	
Social issues and the Environment 5 th	
Form unsustainable to sustainable development.	
1 st	
Links a graphic assertated to a gray gray.	
Urban problems related to energy.	
Water conservation	
11 th 3 rd	
rain water harvesting,	
water shed management.	
5 th	
Resettlement and rehabilitation of people	
1 st	
its problems and concern.	
2 nd	
Environmental ethics: issue and possible solutions.	
12 th 3 rd	
Climate change,	
4 th	
global warming,	
5 th	

1		Tabid natio
	1 st	acid rain,
	2 nd	ozone layer depletion
13 th	3 rd	nuclear accidents and holocaust, case studies
	4 th	Air (prevention and control of pollution) Act
	5 th	Water (prevention and control of pollution) Act
	1 st	Public awareness.
	2 nd	Human population and the environment:
14 th	3 rd	Population growth and variation among nations.
	4 th	Population explosion- family welfare program
	5 th	Environment and humanhealth.
	1 st	Value education
	2 nd	Human rights.
15 th	3 rd	Human rights.
	4 th	Role of information technology in environment and human health
	5 th	Role of information technology in environment and human health