



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: Er PADMALAYA BEHERA
Week	Class Day	Theory / Practical Topics
1st	1st	The Multidisciplinary nature of environmental studies: Definition, scope and importance.
	2nd	Need for public awareness.
	3rd	Natural Resources: Renewable and non renewable resources
	4th	Natural resources and associated problems.
	5th	Forest resources: Use and over-exploitation, deforestation, case studies,
2nd	1st	Timber extraction mining, dams and their effects on forests and tribal people
	2nd	Water resources: Use and over-utilization of surface and ground water, floods, drought,
	3rd	conflicts over water, dam's benefits and problems
	4th	conflicts over water, dam's benefits and problems
	5th	environmental effects of extracting and using mineral resources
3rd	1st	Food Resources: World food problems, changes caused by agriculture and over grazing
	2nd	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,
	3rd	Energy Resources: Growing energy need, renewable and non-renewable energy sources,
	4th	use of alternate energy sources, case studies.
	5th	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification

4 th	1 st	Role of individual in conservation of natural resources. Equitable use of resources for sustainable life styles.
	2 nd	Systems: Concept of an eco system. Structure and function of an eco system.
	3 rd	Producers, consumers, decomposers.
	4 th	Ecological succession.
	5 th	Food chains, food webs and ecological pyramids.
5 th	1 st	Introduction, types, characteristic features, structure and function of the following eco system
	2 nd	Forest ecosystem:
	3 rd	Aquatic eco systems (ponds, streams, lakes, rivers, oceans)
	4 th	Energy flow in the eco systems
	5 th	Biodiversity and it's Conservation: Introduction-Definition:
6 th	1 st	genetics, species and ecosystem diversity.
	2 nd	Biogeographically classification of India.
	3 rd	Value of biodiversity: consumptive use, productive use
	4 th	social ethical, aesthetic and optin values.
	5 th	Biodiversity at global, national and local level.

7th	1st	Threats to biodiversity: Habitats loss, poaching of wild life
	2nd	man wildlife conflicts.
	3rd	Environmental Pollution: Definition Causes, effects and control measures of different pollutions
	4th	Air pollution.
	5th	Water pollution
8th	1st	Soil pollution
	2nd	Marine pollution
	3rd	Noise pollution.
	4th	Thermal pollution
	5th	Nuclear hazards.
9th	1st	Solid waste Management: Causes
	2nd	effects
	3rd	control measures of urban and industrial wastes.
	4th	Role of an individual in prevention of pollution
	5th	Disaster management

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

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