

LESSON PLAN

Discipline: Civil Engg	Semester: Third (3 rd)	Name of the Faculty: Er Rajashree Rout
Subject: Environmental Studies.	No. of days/week class allotted: Five (5)	Semester from Date: 15.09.22 to Date: 22.12.22 No. of Weeks: 15
WEEK	CLASS DAY	THEORY TOPICS
1 st	1 st	Definition.
	2 nd	Scope.
	3 rd	Importance.
	4 th	Need for Public Awareness.
	5 th	Review Class.
2 nd	1 st	Natural Resources, Renewable and Non-renewable resources
	2 nd	Forest Resources and their use, Over-exploitation
	3 rd	Deforestation and Case studies Timber extraction mining
	4 th	dams, benefits and problems and their effect on tribal people,
	5 th	Water Resources Use & over utilization of surface & ground water, flood. draught Conflict over Water, dam benefits & problems.
3 rd	1 st	Mineral Resources – Use & exploitation, environmental effects on extracting & using mineral resources.
	2 nd	Food Resources – World food problems, changes cause by agriculture, fertilizer- pesticides problems, water logging, salinity.
	3 rd	Energy Resources-Growing energy need Renewable and Non-renewable energy resources. Use of alternate energy source. case studies.
	4 th	Land resources- land as a resources land degradation, man induces landslides, Soil erosion & Desertification
	5 th	Role of individual in conservation of natural resources.
4 th	1 st	Monthly Test.

	2 nd	Equitable use of resources for sustainable life styles.
	3 rd	Review Class.
	4 th	Review Class.
	5 th	Concept of an eco-system.
5 th	1 st	Structure and function of an eco-system.
	2 nd	Producers, consumers, decomposers.
	3 rd	Energy flow in the eco systems.
	4 th	Ecological succession.
	5 th	Food chains, food webs, Ecological pyramids.
6 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, estuaries).
	4 th	Review Class.
	5 th	Review Class.
7 th	1 st	Introduction-Definition: genetics, species and ecosystem diversity
	2 nd	Monthly Test.
	3 rd	Biogeographically classification of India.
	4 th	Value of biodiversity: consumptive use, productive use,
	5 th	social ethical, aesthetic and option values.
8 th	1 st	Biodiversity at global, national and local level.
	2 nd	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
	3 rd	Review Class.

	4 th	Definition causes, effects & control measure
	5 th	Air pollution
9 th	1 st	Water pollution
	2 nd	Soil pollution
	3 rd	Marine pollution
	4 th	Noise pollution.
	5 th	Thermal pollution
10 th	1 st	Nuclear hazards
	2 nd	Solid Waste Management- causes, effects Control measure of urban & industrial waste
	3 rd	Monthly Test.
	4 th	Role of individual in prevention of pollution.
	5 th	Disaster Management – Floods, Earth Quake, cyclone, & Land Slides
11 th	1 st	Review Class
	2 nd	Review Class
	3 rd	Form unsustainable to sustainable development
	4 th	Urban problems related to energy.
	5 th	Water conservation, rain water harvesting, water shed management.
12 th	1 st	Resettlement and rehabilitation of people; its problems and concern.
	2 nd	Environmental ethics: issue and possible solutions.
	3 rd	Climate change, global warming, acid rain,
	4 th	Ozone layer depletion, nuclear accidents and holocaust, case studies.
	5 th	Air (prevention and control of pollution) Act.

13 th	1 st	Water (prevention and control of pollution) Act.
	2 nd	Public awareness.
	3 rd	Review Class.
	4 th	Review Class.
	5 th	Population growth and variation among nations
14 th	1 st	Population explosion.
	2 nd	Family welfare program.
	3 rd	Monthly test.
	4 th	Environment and human health.
	5 th	Human rights
15 th	1 st	Value education
	2 nd	Role of information technology in environment and human health.
	3 rd	Review Class.
	4 th	Review Class.
	5 th	Revision