LESSON PLAN

Discipline: Civil Engg	Semester: 3rd	Name of the Teaching faculty: Rajashree Nayak
Subject: EVS Th-5	No of Days/Week class alloted: 4	Semester from Date:15.09.2022　　　　To Date: 22.12.2022 No of weeks:　15

Week	Class Day	Topics
1st	1st	**The Multidisciplinary nature of environmental studies:** 1.1 Definition, scope and importance.
	2nd	Need for public awareness
	3rd	**Natural Resources:** Renewable and non renewable resources:
		Natural resources and associated problems.
	4th	**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
	3rd	floods, drought, conflicts over water, dam's benefits and problems.
	4th	**Mineral Resources:** Use and exploitation, environmental effects of extracting and using mineralresources.
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 andnon-renewable energy sources, use of alternate energy sources, case studies.
	4th	**Land Resources:** Land as a resource, land degradation, man induceslandslides, soil erosion, anddesertification.
4th	1st	Role of individual in conservation of natural resources.
	2nd	Equitable use of resources for sustainable life styles.
	3rd	**Systems:** 3.1. Concept of an eco system.
	4th	Structure and function of an eco system. Producers, consumers, decomposers.
5th	1st	Energy flow in the eco systems.
	2nd	Ecological succession.
	3rd	Food chains, food webs and ecological pyramids
	4th	Introduction, types, characteristic features, structure and function of the following eco system:
6th	1st	Forest ecosystem:
	2nd	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	3rd	**Biodiversity and it's Conservation:** 4.1. Introduction-Definition:
	4th	genetics, species and ecosystem diversity
	1st	Biogeographically classification of India.
	2nd	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.

7th		
	3rd	Biodiversity at global
	4th	National and local level.
8th	1st	Threats to biodiversity: Habitats loss
	2nd	poaching of wild life, man wildlife conflicts.
	3rd	**Environmental Pollution:** Definition Causes, effects and control measures of: Air pollution.
	4th	Water pollution.
9th	1st	Soil pollution
	2nd	Marine pollution
	3rd	Noise pollution.
	4th	Thermal pollution
10th	1st	Nuclear hazards.
	2nd	Solid waste Management: Causes,
	3rd	effects and control measures of urban and industrial wastes.
	4th	Role of an individual in prevention of pollution.
11th	1st	Disaster management: Floods, earth quake,
	2nd	cyclone and landslides.
	3rd	**Systems:** Concept of an eco system.
	4th	Structure and function of an eco system.
12th	1st	Producers, consumers, decomposers.
	2nd	Energy flow in the eco systems.
	3rd	Ecological succession.
	4th	Food chains, food webs
13th	1st	ecological pyramids.
	2nd	Introduction, types, characteristic features
	3rd	Forest ecosystem:
	4th	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
14th	1st	**Human population and the environment:** Population growth and variation among nations.
	2nd	Population explosion
	3rd	- family welfare program.
	4th	Environment and humanhealth.
15th	1st	Human rights.
	2nd	Value education
	3rd	Role of information technology in environment and human health.
	4th	Role of information technology in environment and human health.
16th	1st	CLASS TEST 3, PREVIOUS YEAR QUESTIONS, QUIZ

LearningResources:

Sl No.	Author Name	Name of the Book
1	Erach Bharucha	Textbook of Environmental studies
2	D.D. Mishra	Fundamental concepts in Environmental Studies
3	K.RaghavanNambiar	Textbook of Environmental studies

Rajashree Nayak