



KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Discipline: Civil Engineering	Semester: 3 rd , Winter/2022	Name of the Teaching Faculty: Mr. Jiban Kumar Jena Email Id: jiban.jenafet@kp.kiit.ac.in
Subject: EVS	No. of Days/Week	Semester From Date: 14.09.2022 to Date: 21.01.2023
Theory: 5	Class Allotted -4	No. of Weeks: 15
Week	Class Day	Theory
1st	1st	Definition, scope and importance.
	2nd	Need for public awareness.
	3rd	Natural resources and associated problems.
	4th	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
2nd	1st	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems
	2nd	Revising the taught portions
	3rd	Doubt clearance
	4th	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
3rd	1st	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.
	2nd	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	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.
4th	1st	Equitable use of resources for sustainable life styles.
	2nd	Concept of an eco-system Structure and function of an eco-system.
	3 rd	Producers, consumers, decomposers.
	4 th	Energy flow in the eco systems, Ecological succession.
5 th	1 st	Food chains, food webs and ecological pyramids
	2 nd	Introduction, types, characteristic features, structure and function of the following eco system
	3 rd	Forest ecosystem
	4 th	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)
6 th	1 st	Introduction-Definition: genetics, species and ecosystem diversity.
	2 nd	Biogeographically classification of India

	3 rd	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	4 th	Biodiversity at global, national and local level.
7 th	1 st	Threats to biodiversity: Habitat loss, poaching of wild life, man wildlife conflicts.
	2 nd	Revision
	3 rd	Class test
	4 th	Doubt clearance
8 th	1 st	Definition Causes, effects and control measures of: Air pollution, Water pollution.
	2 nd	Soil pollution
	3 rd	Noise pollution
	4 th	Thermal pollution
9 th	1 st	Marine pollution
	2 nd	Water pollution
	3 rd	QUIZ Test - 1
	4 th	Internal Exam
10 th	1 st	Revision of taught theories
	2 nd	Assignment
	3 rd	Checking of assignment
	4 th	Class test
11 th	1 st	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	2 nd	Role of an individual in prevention of pollution.
	3 rd	Disaster management: Floods, earth quake, cyclone and landslides.
	4 th	Form unsustainable to sustainable development.
12 th	1 st	Urban problems related to energy.
	2 nd	Water conservation, rain water harvesting, water shed management.
	3 rd	Resettlement and rehabilitation of people; its problems and concern.
	4 th	Environmental ethics: issue and possible solutions.
13 th	1 st	climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	2 nd	Air (prevention and control of pollution) Act. Water (prevention and control of pollution) Act.
	3 rd	QUIZ Test - 2
	4 th	Public awareness.
14 th	1 st	Population growth and variation among nations.
	2 nd	Population explosion- family welfare program.
	3 rd	Environment and human health.
	4 th	Human rights.
15 th	1 st	Value education
	2 nd	Role of information technology in environment and human health.
	3 rd	Previous year question discussion
	4 th	Revision