LESSON PLAN FOR ENVIRONMENTAL SCIENCE
(3RD SEM)

Discipline : ALL	Semester: 3rd (2024-25)	Name of teaching faculty Ms Amrita A. Nanda/ Ms J. Behera
Subject: EVS	No's of days/ per week class allotted :4	Semester start from : 01/07/2024 - 13/12/2024

WEEK	CLASS DAY	UNIT	TOPICS
1	1	1	The Multidisciplinary nature- Definition, scope,importance and Need.
	2	2	Renewable and non-renewable resources:
	3	2	Forest resources: Use and over-exploitation, deforestation, case studies,
	4	2	Timber extraction mining Dams and their effects on forests and tribal people
2	1	2	Water resources: Use and over-utilization of surface and ground water.
	2	2	Floods, drought, conflicts over water, dams benefits and problems
	3	2	Mineral Resources: Use and exploitation
	4	2	Environmental effects of extracting and using mineral resources
3	1	2	Food Resources: World food problems, changes caused by agriculture and over grazing
	2	2	Effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.
	3	2	Energy Resources: Growing energy need ,renewable and non-renewable energy sources,
	4	2	Use of alternate energy sources, Land Resources: Land as a resource
4	1	2	Land degradation, man induces landslides, Soil erosion, and desertification
	2	2	Role of individual in conservation of natural resources
	3	2	Equitable use of resources for sustainable life style
	4	3	Structure and function of an eco-system, Producers, consumers, decomposers.
5	1	3	Energy flow in the eco systems
	2	3	Ecological succession
	3	3	Food chains, food webs and ecological pyramids
	4	3	Forest ecosystem, grassland and desert ecosystem
6	1	3	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)
	2	4	Introduction-Definition: genetics, species and ecosystem diversity.
	3	4	Biogeographically classification of India.
	4	4	Value of biodiversity: consumptive use, productive use, social
7	1	4	Value of biodiversity ethical, aesthetic and optional values
	2	4	Biodiversity at global, national and local level, Hotspots of bio diversity
	3	4	Threats to biodiversity: Habitats loss

	4	4	Poaching of wild life, man, wildlife conflicts
8	1	4	Conservation of bio-diversity: in-situ and ex-situ
	2	5	Definition Causes, effects and control measures of: Air pollution.
	3	5	Definition Causes, effects and control measures of Water pollution.
	4	5	Definition Causes, effects and control measures of Soil pollution
9	1	5	Definition Causes, effects and control measures of Marine pollution
	2	5	Definition Causes, effects and control measures of Noise pollution
	3	5	Definition Causes, effects and control measures of Thermal pollution Nuclear hazards.
	4	5	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
10	1	6	Role of an individual in prevention of pollution.
	2	6	Disaster management: Floods, earth quake,
	3	6	Disaster management : cyclone and landslides
	4	6	Form unsustainable to sustainable development. Urban problems related to energy.
11	1	6	Water conservation, rain water harvesting, water shed management
	2	6	Resettlement and rehabilitation of people; its problems and concern
	3	6	Environmental ethics: issue and possible solutions
	4	6	Climate change and global warming
12	1	6	Acid rain and ozone layer depletion,
	2	6	Nuclear accidents and holocaust, case studies
	3	6	Air (prevention and control of pollution) Act
	4	7	Water (prevention and control of pollution) Act
13	1	7	Forest conservation act
	2	7	Public awareness
	3	7	Population growth and variation among nations.
	4	7	Population explosion- family welfare program
14	1	7	Environment and human health.
	2	7	Human rights
	3	7	Value education
	4	7	Role of information technology in environment and human health.
15	1		Revision
	2		Revision
	3		Revision
	4		Revision

A. Nanda