

LESSON PLAN

SUBJECT-EVS

CODE-TH 05

SEM-3RD

Prepared by-Kalebar singh

COURSE OBJECTIVES:

After completion of study of environmental studies, the student will be able to:

- **1. Gather adequate knowledge of different pollutants, their sources and shall be aware of solid waste management systems and hazardous waste and their effects.**
- **2. Develop awareness towards preservation of environment.**

TOPIC	NO. of classes
Definition, scope and importance, Need for public awareness.	01
Natural resources and associated problems. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.	04
Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	03
Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	02
Food Resources: World food problems ,changes caused by agriculture and overgrazing,effectsofmodernagriculture,fertilizers-pesticidesproblems, water logging, salinity,.	04

Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	03
Land Resources: Land as a resource ,land degradation ,man induces landslides, soil erosion, and desertification.	03
Role of individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.	03
Concept of an ecosystem. Structure and function of an ecosystem. Producers, consumers, decomposers.	02
Energy flow in the ecosystems. Ecological succession. Food chains, food web sand ecological pyramids.	03
Forest ecosystem	01
Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries)	04
Introduction-Definition: genetics, species and ecosystem diversity.	01
Biogeographically classification of India. Value of biodiversity: consumptive use, productive use, social	04
Biodiversity at global, national and local level.	03

Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	
Definition Causes, effects and control measures of: a) Air pollution. b) Water pollution.	01
Soil pollution Marine pollution	01
Noise pollution. Thermal pollution Nuclear hazards.	02
Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	02
Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and landslides	01
Urban problems related to energy. Water conservation, rain water harvesting, water shed management. Resettlement and rehabilitation of people; its problems and concern.	02
Environmental ethics: issue and possible solutions. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.	03
Air (prevention and control of pollution) Act. Water (prevention and control of pollution) Act. Public awareness.	03
Population growth and variation among nations. Population explosion-family welfare program.	01

.	
Environment and human health. Human rights.	01
Value education Role of information technology in environment and human health.	01
Practice and discussion of previous yr question	03