

## LESSON PLAN 2023-24

SUBJECT : ENVIRONMENTAL STUDIES (3RD SEM)

NAME OF THE TEACHER : KUMAR GYANADEEP, Lect. (stage-II, Automobile Engg)

Class No.	Topic	Subtopics	Teaching Aids/Activities
<b>Unit 1: The Multidisciplinary Nature of Environmental Studies (4 Classes)</b>			
1	Definition & Scope	Definition, nature, scope	PPT, Whiteboard
2	Importance	Importance, relevance today	Video on global environmental issues
3	Public Awareness	Need for public awareness	Group discussion, newspaper article analysis
4	Summary & Quiz	Recap & short quiz	MCQs, Charts
<b>Unit 2: Natural Resources (10 Classes)</b>			
5	Introduction	Classification: renewable, non-renewable	Charts, mind map
6	Forest Resources	Use, over-exploitation, deforestation	Case study: Amazon, video
7	Forest (contd.)	Timber, mining, dams & tribal impact	Group discussion
8	Water Resources	Overutilization, floods, droughts	Documentary clip
9	Water (contd.)	Water conflicts, dam problems/benefits	Case study: Narmada
10	Mineral Resources	Extraction, environmental impact	PPT with visuals
11	Food Resources	Problems, overgrazing, modern agriculture	Chart presentation
12	Energy Resources	Renewable, non-renewable, case studies	YouTube video on solar/wind
13	Land Resources	Land degradation, soil erosion, desertification	Short quiz, map activity
14	Conservation	Role of individual, equitable use	Poster-making, roleplay
<b>Unit 3: Ecosystems (8 Classes)</b>			
15	Concept & Structure	Definition, components	Ecosystem chart
16	Functions	Producers, consumers, decomposers	Food chain activity
17	Energy Flow	Energy pyramids, examples	Diagrams, animation
18	Succession	Types, importance	Video + Q&A
19	Food Chains & Webs	Definitions, examples	Flashcards, drawing
20	Forest Ecosystem	Structure, function	Field trip or virtual tour
21	Aquatic Ecosystems	Ponds, lakes, oceans	PPT + real examples
22	Recap & Quiz	Summary of ecosystems	Worksheet + quiz
<b>Unit 4: Biodiversity &amp; Its Conservation (8 Classes)</b>			
23	Introduction	Genetics, species, ecosystem diversity	Biodiversity chart
24	Biogeographic Zones	India's zones classification	India map activity
25	Value of Biodiversity	Use values, aesthetics, ethics	Group activity

26	Biodiversity Levels	Local, national, global examples	Case studies
27	Threats to Biodiversity	Poaching, habitat loss, conflicts	Documentary screening
28	Conservation Methods	In-situ, ex-situ	Picture charts
29	Success Stories	India-based conservation projects	Video + student presentations
30	Recap & Test	Biodiversity quiz/test	MCQ + chart revision
<b>Unit 5: Environmental Pollution (12 Classes)</b>			
31	Introduction	Definition, types of pollution	Chart on types
32	Air Pollution	Causes, effects, control	Poster + video
33	Water Pollution	Sources, impacts, control	Case study: Ganga Action Plan
34	Soil Pollution	Causes, impacts	PPT with images
35	Marine Pollution	Oil spills, plastics	Documentary: ocean pollution
36	Noise Pollution	Decibels, effects, solutions	Audio samples
37	Thermal Pollution	Industries, impacts	Article discussion
38	Nuclear Hazards	Chernobyl, Fukushima	Video + discussion
39	Solid Waste	Urban, industrial waste mgmt	Local waste audit activity
40	Individual Role	Pollution prevention at individual level	Role play
41	Disaster Management	Floods, earthquakes, cyclones	News clips, rescue videos
42	Recap & Quiz	Pollution & disasters review	MCQs, group quiz
<b>Unit 6: Social Issues &amp; Environment (10 Classes)</b>			
43	Sustainable Development	Concept, need	Case studies
44	Urban Energy Issues	Energy crisis, solutions	Short film
45	Water Conservation	Rainwater harvesting	Model making
46	Watershed Mgmt	Methods, benefits	Local project example
47	Rehabilitation	Issues in resettlement	Group discussion
48	Environmental Ethics	Value conflicts, solutions	Debate
49	Global Warming	Causes, effects	Documentary + Q&A
50	Ozone Depletion	Causes, impact	PPT + awareness poster
51	Acts & Laws	Air & Water Pollution Acts	Legal framework diagram
52	Summary & Test	Recap & test	Quiz, answer discussion
<b>Unit 7: Human Population &amp; Environment (8 Classes)</b>			
53	Population Growth	Trends, effects	Charts, statistics
54	Family Welfare	Govt. programs, awareness	Leaflet review
55	Environment & Health	Diseases, pollution impact	WHO videos
56	Human Rights	Basic rights, role in environment	Case laws
57	Value Education	Environmental values	Storytelling
58	IT in Environment	GIS, remote sensing	Live demo or video
59	Recap & Q&A	Summary discussion	Interactive quiz
60	Final Assessment	Unit 7 test & course wrap-up	Written test