

LESSON PLAN

SUB: ENVIRONMENTAL STUDIES

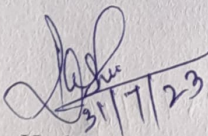
BRANCH:- TEXTILE ENGG.

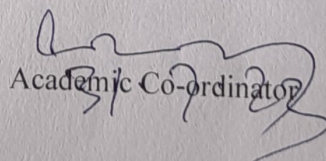
SEMESTER:3rd

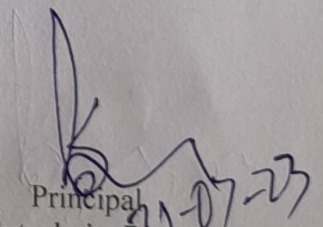
NAME OF FACULTY: RASHMI REKHA PATEL (I/C HOD Textile Engg.)



**GOVERNMENT POLYTECHNIC,
BHADRAK**


31/7/23
Hod, Textile Engg


Academic Co-ordinator


Principal
Govt. Polytechnic, Bhadrak

LESSON PLAN

DEPARTMENT OF TEXTILE ENGG, GOVT. POLYTECHNIC, BHADRAK
SUBJECT: Th5. Environmental Studies Periods: 4 per week **SEMESTER: 3rd**
NAME OF FACULTY: R.R PATEL **ACADEMIC YEAR: 2023-2024**

Semester From date: 01.8.2023 To Date: 30.11.2023 No. of weeks: 15

Week	Class Day	Theory / Practical Topics
1st	1st	The Multidisciplinary nature of environmental studies
	2nd	Definition, scope and importance
	3rd	Need for public awareness
2nd	1st	Natural Resources
	2nd	Renewable and non renewable resources
	3rd	Natural resources and associated problems.
3rd	1st	Forest resources: Use and over-exploitation deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	2nd	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
	3rd	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
4th	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.
5th	1st	Role of individual in conservation of natural resources.
	2nd	Equitable use of resources for sustainable life styles.
	3rd	Concept of an eco system.
6th	1st	Structure and function of an eco system.
	2nd	Producers, consumers, decomposers.
	3rd	Energy flow in the eco systems.
7th	1st	Ecological succession.
	2nd	Food chains, food webs and ecological pyramids
	3rd	Introduction, types, characteristic features, structure and function of the following eco System
8th	1st	Forest ecosystem
	2nd	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)
	3rd	Biodiversity and it's Conservation, Introduction-Definition: genetics, species and ecosystem diversity.
	1st	Biogeographically classification of India, Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	2nd	Biodiversity at global, national and local level, Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.

9th	3rd	Environmental Pollution, Definition Causes, effects and control measures of: a) Air pollution. b) Water pollution. c) Soil pollution d) Marine pollution e) Noise pollution. f) Thermal pollution g) Nuclear hazards
10th	1st	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	2nd	Role of an individual in prevention of pollution, Disaster management: Floods, earth quake, cyclone and landslides.
	3rd	Social issues and the Environment, From unsustainable to sustainable development
11th	1st	Urban problems related to energy
	2nd	Water conservation, rainwater harvesting, water shed management.
	3rd	Resettlement and rehabilitation of people; its problems and concern.
12th	1st	Environmental ethics: issue and possible solutions.
	2nd	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	3rd	Air (prevention and control of pollution) Act.
13th	1st	Water (prevention and control of pollution) Act.
	2nd	Public awareness
	3rd	Human population and the environment
14th	1st	Population growth and variation among nations.
	2nd	Population explosion- family welfare program.
	3rd	Environment and human health.
15th	1st	Human rights.
	2nd	Value education
	3rd	Role of information technology in environment and human health

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(S. Lecture textile)