

Lesson Plan

GOVT. POLYTECHNIC, KANDHAMAL

Discipline: ELECTRICAL ENGINEERING		
Semester: 3RD		Name of Faculty : CHINMAYEE PANIGRAHI
Subject: EVS	No. of days/ week Class allotted: 4	Semester From Date: 01-08-2023 To date : 09-12-2023
Week	Class Day	Theory
1st	1st	The Multidisciplinary nature of environmental studies: Definition, scope and importance.
	2nd	Need for public awareness.
	3rd	Natural resources and associated problems Forest resources: Use and over-exploitation, deforestation, case studies,
	4th	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
	2nd	conflicts over water, dam's benefits and problems.
	3rd	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources
	4th	Food Resources: World food problems, changes caused by agriculture and over grazing,
3rd	1st	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity
	2nd	Energy Resources: Growing energy need, renewable and non-renewable energy sources
	3rd	use of alternate energy sources, case studies
	4th	LandResources: Landasaresource, land degradation, man induces landslides, soil erosion, and desertification.
4th	1st	Role of individual in conservation of natural resources
	2nd	Equitable use of resources for sustainable life styles.
	3rd	REVISION

	4th	C LASS TEST - I
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6th	1st	Aquatic eco systems (ponds, streams, lakes, rivers, oceans,estuaries).
	2nd	Biodiversity and it's Conservation Introduction-Definition: genetics, species and ecosystem diversity
	3rd	. Biogeographically classification of India
	4th	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.
7th	1st	Biodiversity at global, national and local level
	2nd	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
	3rd	REVISION
	4th	CLASS TEST II
8th	1st	PYQ DISCUSSION
	2nd	
	3rd	Environmental Pollution Definition Causes, effects and control measures of Air pollution,
	4th	Water pollution,Soil pollution
9th	1st	Marine pollution, Noise pollution
	2nd	Thermal pollution
	3rd	Nuclear hazards.
	4th	REVISION
10th	1st	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	2nd	Role of an individual in prevention of pollution.
	3rd	Disaster management: Floods, earth quake, cyclone and landslides.
	4th	REVISION
11th	1st	C LASS TEST - III
	2nd	Social issues and the Environment Form unsustainable to sustainable development.
	3rd	Urban problems related to energy.
	4th	Water conservation, rain water harvesting,
	1st	water shed managemen

12th	2nd	Environmental ethics: issue and possible solutions
	3rd	Resettlement and rehabilitation of people; its problems and concern..
	4th	Climate change, global warming
13th	1st	, acid rain, ozone layer depletion, nuclear accidents and holocaust,
	2nd	case studies
	3rd	Water (prevention and control of pollution) Act..
	4th	Air (prevention and control of pollution) Act,
14th	1st	Public awareness
	2nd	Human population and the environment Population growth and variation among nations
	3rd	Population explosion- family welfare program
	4th	Environment and humanhealth.
15th	1st	Human rights
	2nd	Value education
	3rd	Role of information technology in environment and human health.
	4th	CLASS TEST IV

REFERENCE BOOKS:

1. Textbook of Environmental studies Erach Bharucha
2. Fundamental concepts in EnvironmentalStudies D.D. Mishra
3. Environmental Engineering V.M.Domkundwar Dhanpat Rai & Co

BOOK REFERENCE:

1. Electrical & Electronic Measurements and Instrumentation R.K.Rajput S.ChandEntrepreneurship Development and Management by U Saroj and V Mahendiratta, Abhishek Publications, Chandigarh
2. Electric Measurement and Measuring instruments A.K. Sawhney Dhanpat Rai & Co
3. Electrical and Electronics Measuring instruments and Measurement
4. Electrical Measurement and Measuring instruments E.W. Golding & H Widdis Wheeler Publishing

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