

GOVT. POLYTECHNIC, BOLANGIR
LESSON PLAN

Discipline : Mechanical	Semester: 3 rd	Name of the Teaching Faculty : Sachidananda Padhi
Subject : EVS	No. of Days / per week class allotted : 4	Semester From date : 27.08.2024 to Date :08.11.2024 No. of Weeks : 10
Week	Class Day	Topics
Dt. 27.08.2024 to Dt.31.08.2024	1st	The multidisciplinary nature of environmental studies : - Definition
	2nd	Scope and importance, Need for public awareness
	3rd	Nature 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
	4th	Water resources : Use and over-utilization of surface and ground water, nfloods, drought, conflicts over water, dam's benefitsand problems
Dt. 02.09.2024 to Dt.07.09.2024	1st	Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources
	2nd	Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizers, pesticides problems, water logging, salinity
	3rd	Energy resources : Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies
	4th	Land resources : Land as a resource, land degradation, man induces landslides, soil erosion and desertification
Dt. 09.09.2024 to Dt.14.09.2024	1st	Role of individual in conservation of natural resources, Equitable use of resources for sustainable lifestyles
	2nd	Concept of an ecosystem, Structure and function of an ecosystem
	3rd	Producers, consumers , decomposers, Energy flow in ecosystems
	4th	Ecological succession, Food chains, food webs and ecological pyramids
Dt. 16.09.2024 to Dt.21.09.2024	1st	Introduction, types,characteristic features , structure and function of the following ecosystem : Forest ecosystem
	2nd	Aquatic ecosystems (Ponds, Streams)
	3rd	Lakes, rivers
	4th	Oceans, estuaries
Dt. 23.09.2024 to Dt.28.09.2024	1st	Introduction - Definition; genetics, species and ecosystem diversity
	2nd	Biogeographically classification of India
	3rd	Value of biodiversity : consumptive use, productive use, social, ethical, asthetic and opt in values
	4th	Biodiversity at global, national and local level
Dt. 30.09.2024 to Dt.05.10.2024	1st	Threats to biodiversity : Habitats loss, poaching of wild life, man wildlife conflicts
	2nd	Definition, causes, effects and control measures of : Air pollution
	3rd	Water pollution, Soil pollution
	4th	Marine pollution, Noise pollution
Dt. 14.10.2024 to Dt.19.10.2024	1st	Thermal pollution, Nuclear hazards
	2nd	Solid waste management : Causes, effects and control measures of urbanand industrial wastes, role of an individual in prevention of pollution
	3rd	Disaster management ; Floods, earth quake, cyclone and landslides
	4th	From unsustainable to sustainable development : Urban problems related to energy
Dt. 21.10.2024 to Dt.26.10.2024	1st	Water conservation , rain water harvesting, water shed management
	2nd	Resettlement and rehabilitation of people ; its problems and concern
	3rd	Environmental ethics : issue and possible solutions
	4th	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies
Dt. 28.10.2024 to Dt.02.11.2024	1st	Air (prevention and control of pollution) Act
	2nd	Water (prevention and control of pollution) Act
	3rd	Public awareness
	4th	Population growth and variation among nations, Population explosion - Family welfare program
Dt. 04.11.2024 to Dt.08.11.2024	1st	Environmental and human health
	2nd	Human rights, Value education
	3rd	Role of Information Technology in environment and human health
	4th	Question answer discussion and Doubt clearing


 Signature of concerned Faculty