DISCIPLINECIVIL	SEMESTER:3RD	Name of the Teaching Faculty:SHREYAS PRADHAN
Subject-Enviromental studies	No. of Days per Week Class Alloted-2 Days	Semester From Date: 15/09/2022 To Date: 22/12/2022 No of Weeks :15
Week	Class Day	Theory Topics
September 3rd week	3rd week-Day-1,2	Unit 1: The Multidisciplinary nature of environmental studies Definition, scope and importance, Need for public awareness.
September-4th week October-1st week October-2nd week	September-4th week-Day-1,2 October-1st week-Day-1,2 October-2nd week-Day-1,2	Unit 2: Natural Resources Renewable and non renewable resources: a) Natural resources and associated problems. ? Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribalpeople. ? Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. ? Mineral Resources: Use and exploitation, environmental effects of extracting and using mineralresources. ? Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,. ? Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies. ? Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, anddesertification. b) Role of individual in conservation of natural resources. c) Equitable use of resources for sustainable life styles.
October-2nd week	October-2nd week-Day-2	Class test
October-2nd week October-3rd week October-4th week	October-2nd week-Day-2 October-3rd week-Day-1,2 October-4th week-Day-1,2	Unit 3: Systems ? Concept of an eco system. ? Structure and function of an eco system. ? Producers, consumers,decomposers. ? Energy flow in the eco systems. ? Ecological succession. ? Food chains, food webs and ecological pyramids. ? Introduction, types, characteristic features, structure and function of the following eco system: ? Forest ecosystem: ? Aquatic eco systems (ponds, streams, lakes,rivers, oceans, estuaries).
October-4th week October-5th week	October-4th week-Day-2 October-5th week-Day-1,2	Unit 4: Biodiversity and it's Conservation ? Introduction-Definition: genetics, species and ecosystem diversity. ? Biogeographically classification of India. ? Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optinvalues. ? Biodiversity at global, national and local level. ? Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
October-5th week	October-5th week -Day-2	Class test
November-1st,2nd,	November-1st week-Day-1,2 November-2nd week-Day-1,2	Unit 5: 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. Solid waste Management: Causes, effects and control measures of urban and industrial wastes
November-3rd week	November-3rd week-Day-1	Internal assesment
November-3rd week November-4th week	November-3rd week-Day-2 November-4th week-Day-1,2	Unit 5: 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. Solid waste Management: Causes, effects and control measures of urban and industrial wastes
		Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and landslides.
November-4th week November-5th week December-1st week	November-4th week-Day-2 November-5th week-Day-1,2 December-1st week-Day-1,2	Unit 6: Social issues and the Environment ? Form unsustainable to sustainable development. ? Urban problems related to energy. ? Water conservation, rain water harvesting, water shed management. ? Resettlement and rehabilitation of people; its problems and concern. ? Environmental ethics: issue and possible solutions. ? Climatechange, globalwarming,acidrain,ozonelayerdepletion, nuclear accidents and holocaust, case studies. ? Air (prevention and control of pollution) Act. ? Water (prevention and control of pollution) Act. ? Public awareness
December-2nd week December-3rd week	December-2nd week-Day-1,2 December-3rd week-Day-1,2	Unit 7: Human population and the environment ? Population growth and variation among nations. ? Population explosion- family welfare program. ? Environment and humanhealth. ? Human rights. ? Value education ? Role of information technology in environment and human health.
December-3rd week	December-3rd week-Day-2	Class Test

Shreyas
29/9/2022
Shreyas Pradhan
(PTGT Civil)