

Subject: MC/2-T Environmental Sciences Sem : 3rd

Week	Theory			Date	HOD	Director - Principal
	Lecture Day	Topic (Including assignment / Test)				
1 st	1	Multidisciplinary nature of Environmental studies: Definition, scope and importance,				
	2	Need for public awareness; Concept ,Structure and function of an ecosystem: Producers ,consumers and decomposers,				
	3	Energy flow in the ecosystem, Ecological succession, Food chains, Food webs and ecological pyramids				
2 nd	4	Introduction, types, characteristics features, structure and function of Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem(Ponds Stream lakes, rivers, oceans, estuaries)				
	5	Biodiversity: Introduction, Definition: genetic, species and ecosystem diversity .Biogeographically classification of India				
	6	Value of biodiversity: consumptive use, productive use social ethical, aesthetic and option values, Biodiversity at global, national and local, India as a mega diversity nation, hot spot of biodiversity				
3 rd	7	Threats to biodiversity: habitat loss, poaching of wild life, man-wild life conflicts,				
	8	Endangered and endemic species of India, Conservation of biodiversity :In-situ and Ex-situ conservation of biodiversity				
	9	Renewable and non-renewable resources, Natural resources and associated problems,				
4 th	10	Forest resources: Use and over-exploitation, deforestation, case studies				
	11	Timber extraction, mining, dams and their effects on forests and tribal people;				
	12	Water resources: Use and over utilization of surface and ground water, floods, drought conflicts over water, dams benefits and problems;				
5 th	13	Mineral resources :Use and exploitation, environmental effects of extracting and mineral resources;				
	14	Food resources :World food problem, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer pesticide problems, water logging, salinity;				
	15	Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies;				
6 th	16	Land resources :Land resource, land degradation, main induced landslides, soil erosion and desertification,				
	17	Role of an individual in conservation of natural resources,				
	18	Equitable use of resources for suitable life style.				
7 th		Minor test-1				
8 th	19	Definition of Environment Pollution; Causes, effects and control measures of :Air Pollution,				
	20	Water Pollution, Soil pollution, Marine pollution,				
	21	Noise pollution, Thermal pollution, Nuclear hazards ;Solid waste Management: Causes effects and control measures of urban and industrial wastes;				
9 th	22	Role of an individual in prevention of pollution,				
	23	Pollution case studies; Disaster management: floods, earthquake, cyclone and landslides				
	24	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust,				
10 th	25	Case studies; different laws related to environment: Environment Protection Act, Air (Prevention and Control of Pollution)Act,				
	26	Water (Prevention and Control of Pollution) Act, Wildlife Protection Act,				
	27	Forest Conservation Act.; Issues involved in enforcement of environmental legislation ,Public awareness				
11 th	28	Social issues and the Environment: From unsustainable to Sustainable development,				
	29	Urban problems related to energy; Water conservation, rainwater harvesting,				
	30	Watershed management; Resettlement and rehabilitation of people ;its problem				

		and concern case studies			
12 th	31	Environment ethics: Issues and possible solutions;			
	32	Wasteland reclamation; Consumer is man waste products;			
	33	Human Population growth, variation among nation,			
13 th	34	Population explosion-Family Welfare Programme,			
	35	Environment and human health, Human Rights, Value Education ,HIV/AIDS,			
	36	Women and Child Welfare,			
14 th		Minor Test-2			
15 th	37	Role of Information Technology in Environment and human health, Case Studies			
	38	Role of Information Technology in Environment and human health			
	39	Role of Information Technology in Environment and human health			