

LESSON PLAN

Discipline -Civil Engineering.

TEACHING FACULTY: PREETISAGAR MOHANTY(GF)

Subject-
Environmental
Studies(Th-5)

Semester From Date:- 03.09.2024 to 16.12.2024

4P/WEEK

SEMESTER -3rd

No of Weeks -17

TOTAL PERIOD-60

No of Days/week class allotted:04
period per week(Mon,Thurs,Friday,
Saturday,1 period each)

SYLLABUS TO BE COVERED

MONT H	WEEK	DATE	DAYS/ PERIO D	SYLLABUS TO BE COVERED	NO. OF PERIODS AVAILABLE	
Sept ember				Multidisciplinary nature of environmental studies(4P)	4	
	1st	4-9-2024	Wednesd ay	1.1 Introduction &Definition	1	
		6-9-2024	Friday	1.2 Scope of environmental studies	1	
		9-9-2024	Monday	1.3 Importance of environmental studies	1	
	2nd	11-9-2024	wednesd ay	1.4 Need for public awareness	1	
		CHAPTER -2 NATURAL RESOURCES (10P)				10
		13-9-2024	Friday	2.1 Natural resources, Renewable & Non- renewable resources	1	
		14-9-2024	Saturday	2.2-Forest resources: 2.2.1-Used and over exploitation, deforestation, case studies	1	
		18-9-2024	Wednesd ay	2.2.2-Timber extraction, mining, dam and their effects on forests and trival people	1	
		20-9-2024	Friday	2.3- Water resources: 2.3.1-Use and over - utilization of surface and ground water	1	
		21-9-2024	Saturday	2.3.2-Floods,drought,conflicts over water, dams- benefits and problems	1	
		3rd	23-9-2024	Thursda	2.4-Mineral Resources :2.4.1-Use and over exploitation, environmental effects of extracting &using of mineral resources, case studies	1
	25-9-2024		Wednesd ay	2.5-Food Resources :2.5.1-world food problems, changes caused by agriculture and overgrazing ,effects of modern agriculture, fertilizer, pesticides problems, waterlogging, salinity, case study	1	

NOVEMBER

OCTOBER

4th	27-9-2024	Friday	2.6-Energy Resources :2.6.1-Growing energy needs, renewable and non-renewable energy resources, use of alternate energy sources, case studies.	1
	28-9-2024	Saturday	2.7-Land Resources :Land as a resource, land degradation, man-induced landslides, soil erosion and deforestation.	1
	30-9-2024	Monday	2.8-Role of individual in conservation of natural resources, equitable use of resources for sustainable lifestyle	1
5th	CHAPTER -3 ECOSYSTEM (8P)			8
1st	4-10-2021	Friday	3.1- Concept of ecosystem	1
	5-10-2024	Saturday	3.2-Structure of ecosystem, producers, consumers, decomposers.	1
	14-10-2024	Monday	3.3-Function of ecosystem	1
3rd	18-10-2024	Friday	3.4-Energy flow in ecosystem and ecological succession	1
	19-10-2024	Saturday	3.5- Food chains, food webs, and ecological pyramid	1
	21-10-2024	Monday	3.6-Introduction,types,characteristic features, structure and function of following ecosystem :3.6.1-Forest ecosystem	1
4th	23-10-2024	wednesday	3.6.2-Aquatic(pond,stream,lake)	1
	25-10-2024	Friday	3.6.3-River, ocean, estuaries	1
	CHAPTER -4 BIODIVERSITY AND CONSERVATION (8P)			8
4th	26-10-2024	Saturday	4.1-Introduction-defination,genetics,species and ecosystem diversity	1
	28-10-2024	Monday	4.2-Biogeographically classification of India	1
5th	30-10-2024	wednesday	4.3-Values of biodiversity :4.3.1 consumptive use, productive use, social value	1
	1-11-2024	Friday	4.3.2-Ethical value, asthetic value and other value	1
1st	2-11-2024	Saturday	4.4.1-Biodiversity at global level	1
	4-11-2024	Monday	4.4.2-Biodiversity at national level	1
	6-11-2024	wednesday	4.4.3-Biodiversity at local level	1
	8-11-2024	Friday	4.5-Threats ti biodiversity :Habitat loss pouching of wildlife, man wildlife conflits.	1
CHAPTER -5 ENVIRONMENTAL POLLUTION(12P)			12	

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2nd	9-11-2024	Saturday	5.1-Definition, causes, effects and control measures of : Air pollution	1
	11-11-2024	Monday	5.2-Water pollution	1
3rd	13-11-2024	wednesday	5.3-Soil pollution	1
	16-11-2024	Friday	5.4-Marine pollution	1
	18-11-2024	Saturday	5.5-Noise pollution	1
	20-11-2024	Monday	5.6-Thermal pollution	1
4th	22-11-2024	wednesday	5.7-Nuclear hazards	1
	23-11-2024	Friday	5.8.1-Solid waste management :causes, effects	1
	25-11-2024	Saturday	5.8.2-control measure of urban and industrial wastes.	1
	27-11-2024	Monday	5.9-Role of an individual in prevention of pollution.	1
	29-11-2024	wednesday	5.10-Disaster management :5.10.1-Floods,earthquake.	1
5th	30-11-2024	Saturday	5.10.2-Cyclone and landslides.	1

CHAPTER -6 SOCIAL ISSUES AND ENVIRONMENT (10P) **10**

D E C E M B E R	1st	2-12-2024	Monday	6.1-From unsustainable to sustainable development	1
		4-12-2024	Wednesday	6.2-Urban problem related to energy	1
		6-12-2024	Friday	6.3-Water conservation, rain water harvesting, watershed management	1
		7-12-2024	Saturday	6.4.1-Resettlement & rehabilitation of people	1
	2nd	9-12-2024	Monday	6.4.2-its problems and concerns	1
		11-12-2024	wednesday	6.5.1-Climate change ,global warming,acid rain	1
		13-12-2024	Friday	6.5.2- Ozone layer depletion ,nuclear accident, holocaust, case study	1
	3rd	16-12-2024 Monday		6.6-Air(prevention and control of pollution) Act	1
				6.7-Water(prevention and control of pollution) Act	1
					6.8-Public awareness
				CHAPTER -7 HUMAN POPULATION AND ENVIRONMENT (8P)	8
				7.1-Introduction	1

EXTRA CLASS

7.2.1 -Population growth	1
7.2.2-Variation among nations.	1
7.3-Population explosion -Family welfare programme.	1
7.4-Environment and human health.	1
7.5-Human rights	1
7.6-Value of education.	1
7.7-Role of information technology in environment and human health	1
Revision	1