	INEERING SCHOOL,JHARSUGUDA ENGINEERING DEPARTMENT
Name of the Faculty: M. Sorcin	Session: 2022-23
Course code.:	Course Name: EVS
Programe: Diploma	Department: Mech. Dept.
Semester: 3rd	Section:M1&M2
Branch:MECHANICAL	

WEEK	PERIOD	UNIT	HOUR	Topic to be Covered
	1			Definition of environmenta
1	2			scope of environmental studies
1	3			importance of environmental studies
1	4	1	4	Need for public awareness.
	5			Natural Resources : Renewable and non renewable resources
				Forest resources: Use and over-exploitation, deforestation, case
	6		1	studies ,Timber extraction
	7		1	mining, dams and their effects on forestsand tribal people
			1	Water resources: Use and over-utilization of surface and ground
				water, floods, drought, conflicts over water, dam's benefits and
2	8			problems.
				Mineral Resources: Use and exploitation, environmental effects of
	9			extracting and using mineral resources
	10			Food Resources: World food problems
	11			overgrazing, effects of moderna griculture, fertilizers pesticides problems, water logging, salinity
				Energy Resources: Growing energy need, renewable and nonrenewable energy sources, use of
				alternate energy sources, case
3	12			studies.

					Land Resources: Land as a resource , land degradation , man induces
			. 1		Land Resources: Land as a resource , land degree deadler, year
		13			landslides, soil erosion, and desertification Role of individual in conservation of natural resources, Equitable use of resources for sustainable
		13	1 1		
		14	2	10	lifestyles.
					Concept of an ecosystem, Structure and function of an ecosystem
1		15	4		decomposets
ě.	4	16	5		Producers, consumers, decomposed Energy flow in the ecosystems, Ecological succession.
		. 17	,	1	Food chains, food web
		18	3		ecological pyramids
		19	9		ecological pyrumas
	_	20			Forest ecosystem Aquatic ecosystems (ponds, streams, rivers)
	5	21	-		Aquatic ecosystems (ponds, save
		22	=	8	Aquatic ecosystems (lakes, , oceans, estuaries) Aquatic ecosystems (lakes, , oceans, estuaries) Definition of Biodiversity, Types of Biodiversity : genetics, species and ecosystem
		23	and the second second		Definition of Biodiversity, Types of Blodies
		23	4		Riogeographically classification of male.
-		24	1	1	Value of biodiversity: consumptive use, productive use, social
	6		1	1	Value of biodiversity, consumption
				1	ethical, aesthetic and optional values
		25	5	1	Biodiversity at global level.
		26	6	1	Biodiversity at national level.
		2		1	Biodiversity at national level
		2	-	1	Biodiversity at local level.
1	7				Threats to biodiversity: Habitats loss
		1			Inreats to biom
		2	.9		Threats to biodiversity: poaching of wild life, man wildlife conflicts
		3	30 4	8	Inreats to bloom
			31		Air pollution.
			32		Water pollution.
	8				Soil pollution
			33	1	Marine pollution
		3	34		Noise pollution
	1	3	35		Thermal pollution
	9		36		Inermal pondes
	9		37		Nuclear hazards.
					Solid waste Management
1		3	38	I	
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11	11				
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1	Γ	Causes, effects and control measures of urban and	
- 1		ndustrial wastes.	
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- 1		Role of an individual in prevention of pollution	
- 1	- 1	Disaster management: Floods, earth quake	
5	12	Disaster management: cyclone and landslides.	
	<u> </u>	From unsustainable to sustainable development, Urban problems related to energy	
- 1		Water conservation, rain water harvesting	
		water shed management	
- 1		Resettlement and rehabilitation of people; its problems and concern	
		Environmental ethics: issue and possible solutions	
		Climate change, global warming, acid rain, ozone layer	
		depletion	
		nuclear accidents and holocaust, case studies	
	1	Air (prevention and control of pollution) Act.	
		Water (prevention and control of pollution) Act.	
6	10	Public awareness.	
		Population growth and variation among nations.	
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	1	Population explosion-family welfare program	
		Environment and human health	
		Human rights.	
		Value education	
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7	8	Role of information technology in environment and human health	