Discipline : CIVIL		Semester: 3rd		Name of the Teaching Faculty: SUBINOY BANERJEE
Subject:		No. of Days /		From date: 01.10.2021 To Date: 31.12.2021
ENVIRONMENTAL		per week class		
MONTH	Week	Day	Unit	Topics
	1st	CH	UNIT-I	The Multidisciplinary nature ofenvironmental studies
		6th		Definition, scope and importance
	2nd	2nd		Need for public awareness.
				Question Discussion
		4th	UNIT-II	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 tribal people.
		5th		Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over
				water, dam's benefits and problems.
		6th		Mineral Resources: Use and exploitation, environmental effects of extracting and using
				mineralresources.
	4th	4th		Food Resources: World food problems, changes caused by agriculture and over grazing, effects of
				modern agriculture, fertilizers- pesticides problems, water logging, salinity,.
				Question Discussion
&		5th		Energy Resources: Growing energy need, renewable and non renewable energy sources, use of
				alternate energy sources, case studies.
OCTOBER		6th		Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion,
				anddesertification.
<u>ن</u> ا				b) Role of individual in conservation of natural resources.
0				c) Equitable use of resources for sustainable life styles.
				Question Discussion
		2nd	UNIT-III	Systems
				Concept of an eco system.
				Structure and function of an eco system.
				Producers, consumers, decomposers.
		_		Energy flow in the eco systems.
				Ecological succession.
	5+h	4th		Food chains, food webs and ecological pyramids.

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	1st			Introduction, types, characteristic features, structure and function of the following eco system:
				Forest ecosystem:
		5th		Aquatic eco systems (ponds, streams, lakes)
				Aquatic eco systems (rivers, oceans, estuaries).
				Question Discussion
		6th		CLASS TEST-1
			UNIT-IV	Biodiversity and it's Conservation
		2nd		Introduction-Definition: genetics, species and ecosystem diversity.
				Biogeographically classification of India.
		5th		Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optinvalues.
				Biodiversity at global, national and local level.
		6th		Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
		Otti		Question Discussion
~	2nd	2nd	UNIT-V	Environmental Pollution.
NOVEMBER		Ziiu		Definition Causes, effects and control measures of:a) Air pollution.
B		4th		b) Water pollution.
5		5th		INTERNAL ASSESSMENT
E		6th		INTERNAL ASSESSMENT
 	3rd	2nd		c) Soil pollution
0		4th		d) Marine pollution
Ž		5th		e) Noise pollution.
		6th		Question Discussion
	4th	2nd		f) Thermal pollution
		4th		g) Nuclear hazards.
		5th		Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
		6th		Role of an individual in prevention of pollution.
				Disaster management: Floods, earth quake, cyclone and landslides.
	5th	2nd		Disaster management: Floods, earth quake, cyclone and landslides.
				Question Discussion
		1th	UNIT-VI	Social issues and the Environment

CEMBER	1st	401		From unsustainable to sustainable development.
		5th		Urban problems related to energy.
		6th		Water conservation, rain water harvesting, water shed management.
	2nd	2nd		Resettlement and rehabilitation of people; its problems and concern.
		4th		Environmental ethics: issue and possible solutions.
		5th		Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case
				studies.
		6th		Air (prevention and control of pollution) Act.
	3rd	2nd		Water (prevention and control of pollution) Act.
		4th		Public awareness.
B				Question Discussion
E(5th		CLASS TEST-2
		6th	UNIT-VII	Human population and the environment
				Population growth and variation among nations.
	4th	2nd		Population explosion- family welfare program.
		4th		Environment and human health.
				Human rights.
		5th		Value education
				Role of information technology in environment and human health.
		6th		Question Discussion