Discipline: Civil	Semester: 3rd	Semester from: 15/07/21-19/01/22
		No. of weeks:28
Subject: EVS(Environme ntal Studies) Th.5	No. of days/per week Class Allotted: 4	Name of the teaching faculty: Sushree Sasmita Sahoo
Week	Class/Day	Theory Topics
1 st	1 st	The Multidisciplinary nature of environmental studies
	2 nd	Definition, scope and importance
	3 rd	Definition, scope and importance
	4 th	Need for public awareness
2 nd	1 st	Natural Resources
		Renewable and non renewable resources
	2 nd	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
	3 rd	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
	4 th	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems
3 rd	1 st	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources
	2 nd	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources

	3 rd	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources
	4 th	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,
4 th	1 st	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies
	2 nd	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies
	3 rd	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification
	4 th	Role of individual in conservation of natural resources Equitable use of resources for sustainable life styles
5 th	1 st	Systems Concept of an eco system.
	2 nd	Structure and function of an eco system
	3 rd	Structure and function of an eco system
	4 th	Producers, consumers, decomposers
6 th	1 st	Energy flow in the eco systems
	2 nd	Energy flow in the eco systems
	3 rd	Ecological succession
	4 th	Food chains, food webs and ecological pyramids
7 th	1 st	Food chains, food webs and ecological pyramids
	2 nd	Introduction, types, characteristic features, structure and function of the following eco system

	3 rd	Forest ecosystem
	4 th	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)
8 th	1 st	,
8	I.	Biodiversity and it's Conservation
		Introduction-Definition: genetics, species and ecosystem diversity
	2 nd	Biogeographically classification of India
	3 rd	Biogeographically classification of India
	4 th	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optional values
9 th	1 st	Biodiversity at global, national and local level
	2 nd	Biodiversity at global, national and local level
	3 rd	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts
	4 th	Environmental Pollution
10 th	1 st	Definition Causes, effects and control measures of:
		a) Air pollution
	2 nd	b) Water pollution
	3 rd	b) Water pollution
	4 th	c) Soil pollution
11 th	1 st	d) Marine pollution
	2 nd	d) Marine pollution
	3 rd	e) Noise pollution
	4 th	f) Thermal pollution
12 th	1 st	f) Thermal pollution
	2 nd	g) Nuclear hazards
	3 rd	g) Nuclear hazards

	4 th	Solid waste Management: Causes, effects and control measures of urban and industrial wastes
13 th	1 st	Role of an individual in prevention of pollution
	2 nd	Disaster management: Floods, earth quake, cyclone and land slides
	3 rd	Disaster management: Floods, earth quake, cyclone and land slides
	4 th	From unsustainable to sustainable development
14 th	1 st	Urban problems related to energy
	2 nd	Urban problems related to energy
	3 rd	Water conservation, rain water harvesting, water shed management
	4 th	Water conservation, rain water harvesting, water shed management
15 th	1 st	Resettlement and rehabilitation of people; its problems and concern
	2 nd	Environmental ethics: issue and possible solutions
	3 rd	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies
	4 th	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies
16 th	1 st	Air (prevention and control of pollution) Act
		Water (prevention and control of pollution) Act
	2 nd	Public awareness
	3 rd	Population growth and variation among nations
	4 th	Population explosion- family welfare program
17 th	1 st	Environment and human health
	2 nd	Human rights

3 rd	Value education
4 th	Role of information technology in environment and human health