

Discipline Civil Engineering	Semester 3 rd	Name of the teaching faculty Ms. Geetanjali Bhatia
Subject E.V.C	No of day/ per week class allotted 4	Semester from date 15/9/22 to date 21/1/23
		No of week - 16 15
Week	class day	Theory
1 st	1 st	Unit 1: The multidisciplinary nature of environmental studies
	2 nd	Definition, scope and importance, need for public awareness.
	3 rd	Unit 2: Natural Resources Renewable and non renewable resources:
	4 th	a) Natural resources and associated problems.
2 nd	1 st	• forest resource: use and over-exploitation, deforestation, case studies,
	2 nd	Timber extraction mining, dams and their effects on forests and tribal people.
	3 rd	• water resources: use and over-utilization of surface and ground water, floods,

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		<p>drought, conflicts over water, dam's benefits and problems.</p>
	4th	<p>• Mineral Resources: use and exploitation, environmental effects of extracting and using mineral resources.</p>
3rd	1st	<p>• Food Resources: world food problem, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers - pesticides problems, water logging, salinity.</p>
	2nd	
	3rd	<p>• Energy Resource: Growing energy need, renewable and non-renewable energy sources,</p>
	4th	<p>use of alternate energy sources, case studies.</p>
4th	1st	<p>• Land Resources: Land as a resource, land degradation, man induces landslides,</p>
	2nd	<p>soil erosion, and desertification.</p>

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	3rd	(b) Role of individual in conservation of natural resource.
	4th	(c) Equitable use of resources for sustainable life styles.
		Unit 3: Systems
5th	1st	<ul style="list-style-type: none"> • Concept of an eco system • Structure and function of an eco system.
	2nd	<ul style="list-style-type: none"> • producers, consumers, decomposers.
	3rd	<ul style="list-style-type: none"> • Energy Flow in the eco system • Ecological Succession
	4th	<ul style="list-style-type: none"> • food chain, food webs and ecological Pyramids.
	1st	<ul style="list-style-type: none"> • introduction, types, characteristic feature,
6th	2nd	structure and function of the following eco system:
	3rd	<ul style="list-style-type: none"> • Forest ecosystem • Aquatic eco system
	4th	(ponds, streams, lakes, river oceans, estuaries)

	1st	Unit 4: Biodiversity and its conservation
7th	2nd	• introduction - Definition: genetics, species and ecosystem diversity
	3rd	• Biogeographically classification of India
	4th	- value of biodiversity: Consumptive use, productive use; Social, ethical, aesthetic and option values.
	1st	• Biodiversity at global, national and local level.
8th	2nd	• Threats to biodiversity: Habitats loss, Poaching of wild life, man wildlife conflicts
	3rd	Unit 5: Environment pollution. Definition cause, effects and control measurement of:
	4th	a) Air pollution
		b) water pollution
9th	1st	c) Soil pollution
		d) Marine pollution
	2nd	e) Noise pollution
		f) Thermal pollution
		g) Nuclear hazards
	3rd	Solid waste Management & Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution.
		Disaster management: floods, earth quake, cyclone and landslides.

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		<p>Unit 6: Social issues and the Environment</p> <ul style="list-style-type: none"> • from unsustainable to sustainable development.
10th	1st	
	2nd	<ul style="list-style-type: none"> • urban problems related to energy.
	3rd	<ul style="list-style-type: none"> • water conservation, rain water harvesting, water shed management
	4th	<ul style="list-style-type: none"> • Resettlement and rehabilitation of people; it problems and concerns.
	1st	<ul style="list-style-type: none"> • Environmental ethics: issue and possible solution.
11th	2nd	<ul style="list-style-type: none"> • climate change; global warming, acid rain • ozone layer depletion nuclear accidents and holocaust, case studies.
	3rd	
	4th	<ul style="list-style-type: none"> • Air (Prevention and Control of Pollution) Act.
	1st	<ul style="list-style-type: none"> • water (Prevention and Control of Pollution) Act.
12th	2nd	<ul style="list-style-type: none"> • Public awareness.
	3rd	<p>Unit 7: Human population and the Environment</p>
	4th	<ul style="list-style-type: none"> • Population growth and variation among nations.
	1st	<ul style="list-style-type: none"> • population explosion - family welfare program.
13th	2nd	<ul style="list-style-type: none"> • Environment and human health
	3rd	<ul style="list-style-type: none"> • Human rights. • Value Education
	4th	<ul style="list-style-type: none"> • Role of information technology in environment and human health.

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14th
14th



Revision

15th
15th



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