

Subject : Th5. ENVIRONMENTAL STUDIES

Name of the Faculty : Barsa Pattnayak

SI No	Title of the chapter	week/month	Class Day	Topic to be covered	
1	The Multidisciplinary nature of environmental studies	1st/Aug	1st	1.1 Definition, scope and importance	
2			2nd	1.2 Need for public awareness.	
3			1st	1.2 Need for public awareness.	
4		2nd/Aug	1st	a) Natural resources and associated problems. 2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	
5			2nd	surface and ground water, floods, drought, conflicts over water, dam's benefits and problems	
6			3rd	environmental effects of extracting and using mineral resources.	
7			4th	changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides	
8			1st	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies	
9			3rd/Aug	2nd	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
10				3rd	b) Role of individual in conservation of natural resources.
11		1st		c) Equitable use of resources for sustainable life styles	
12		Systems	4th/Aug	2nd	3.1. Concept of an eco system. 3.2. Structure and function of an eco system
13				3rd	3.3. Producers, consumers, decomposers
14				4th	3.4. Energy flow in the eco systems
15				1st	3.5. Ecological succession
16				2nd	3.6. Food chains, food webs and ecological pyramids
17	Biodiversity and it's Conservation	5th/Aug	3rd	3.7. Introduction, types, characteristic features, structure and function of the following eco system	
18			1st	3.8. Forest ecosystem	
19			2nd/Sep	2nd	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
20				3rd	4.1. Introduction- Definition: genetics, species and ecosystem diversity
21		3rd/Sep	1st	4.2. Biogeographically classification of India	
22			2nd	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values	
23			3rd	4.4. Biodiversity at global, national and local level	
24			4th	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts	

25	Environmental Pollution	4th/Sep	4th	5.1. Definition Causes, effects and control measures of: a) Air pollution
26			1st	b) Water pollution
27			2nd	c) Soil pollution
28		5th/Sep	3rd	d) Marine pollution
29			4th	e) Noise pollution
30			5th	f) Thermal pollution
31		1st/Oct	1st	g) Nuclear hazards
32			2nd	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes
33			3rd	5.3. Role of an individual in prevention of pollution
34		2nd/Oct	1st	5.4. Disaster management: Floods, earth quake, cyclone and landslides
35			2nd	5.4. Disaster management: Floods, earth quake, cyclone and landslides
36			3rd	5.4. Disaster management: Floods, earth quake, cyclone and landslides
37			4th	6.1. Form unsustainable to sustainable development
38		3rd/Oct	1st	6.2. Urban problems related to energy
39			2nd	6.3. Water conservation, rain water harvesting, water shed management
40			3rd	6.4. Resettlement and rehabilitation of people; its problems and concern
41	4th		6.5. Environmental ethics: issue and possible solutions	
42	5th/oct	1st	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies	
43		2nd	6.7. Air (prevention and control of pollution) Act	
44	1st/Nov	1st	6.8. Water (prevention and control of pollution) Act	
45		2nd	6.8. Water (prevention and control of pollution) Act	
46	2nd/Nov	1st	6.9. Public awareness	
47		2nd	7.1. Population growth and variation among nations	
48		3rd	7.2. Population explosion- family welfare program	
49		4th	7.3. Environment and human health	
50	3rd/nov	1st	7.4. Human rights	
51		2nd	7.5. Value education	
52		3rd	7.6. Role of information technology in environment and human health	
53	Human population and the environment	4th	7.6. Role of information technology in environment and human health	
54		4th/Nov	1st	revision unit 1
55			2nd	revision unit 2
56			3rd	revision unit 3
57			4th	revision unit 4
59		5th/Nov		revision unit 5
59				revision unit 6
60			revision unit 7	

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