

<b>DISCIPLINE:</b> Electronics and Telecommunication Engineering	<b>SEMESTER:</b> 3 <sup>rd</sup> Sem	<b>NAME OF THE TEACHING FACULTY:</b> Er. Prajna Sundaray
<b>SUBJECT:</b> Th.5 - ENVIRONMENTAL STUDIES	No. of Days/ Per week class allotted: 4 Class P/W(60)	Semester From Date: 15/09/2022 To Date: 22/12/2022 No. Of Weeks: 15
<b>WEEK</b>	<b>CLASSDAY</b>	<b>THEORYTOPICS</b>
1 <sup>st</sup>	1 <sup>st</sup>	The Multidisciplinary nature of environmental studies: Definition, scope and importance. Need for public awareness.
	2 <sup>nd</sup>	Naturalresources andassociatedproblems.Forestresources:Useandover-exploitation,deforestation,casestudies,Timberextractionmining, Dams andtheireffectsonforestsandtribal people.
	3 <sup>rd</sup>	Waterresources:Useandover-utilizationof surfaceandgroundwater,floods,drought,conflictsoverwater,dam'sbenefits andproblems.
	4 <sup>th</sup>	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
2 <sup>nd</sup>	1 <sup>st</sup>	Doubt clear class
	2 <sup>nd</sup>	Food Resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity,.
	3 <sup>rd</sup>	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	4 <sup>th</sup>	Assignment
3 <sup>rd</sup>	1 <sup>st</sup>	Assignment question Discussion
	2 <sup>nd</sup>	Land Resources: Land as a resource, land degradation, man induces land slides, soil erosion, and desertification.
	3 <sup>rd</sup>	Role of individual in conservation of natural resources.
	4 <sup>th</sup>	Equitableuseofresourcesforsustainable lifestyles
4 <sup>th</sup>	1 <sup>st</sup>	<b>Revisionoflastfewclass</b>
	2 <sup>nd</sup>	Concept of an ecosystem., Structure and function of an ecosystem
	3 <sup>rd</sup>	Producers,consumers,decomposers.
	4 <sup>th</sup>	Energyflowintheecosystems.
5 <sup>th</sup>	1 <sup>st</sup>	ClassTest
	2 <sup>nd</sup>	Ecological succession.,.Foodchains,food websandecologicalpyramids
	3 <sup>rd</sup>	Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem:
	4 <sup>th</sup>	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).
6 <sup>th</sup>	1 <sup>st</sup>	<b>RevisionofLastClass</b>
	2 <sup>nd</sup>	Assignment
	3 <sup>rd</sup>	Introduction-Definition: genetics, species and ecosystem diversity.
	4 <sup>th</sup>	Biogeographically classification of India

7 <sup>th</sup>	1 <sup>st</sup>	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic And opt in values.
	2 <sup>nd</sup>	Revision of Last class
	3 <sup>rd</sup>	Biodiversity at global, national and local level.
	4 <sup>th</sup>	Assignment
8 <sup>th</sup>	1 <sup>st</sup>	Threats to biodiversity: Habitats loss, poaching of wild life, man wild life conflicts.
	2 <sup>nd</sup>	Definition Causes, effects and control measures of: Air pollution. Water pollution. Soil pollution
	3 <sup>rd</sup>	Marinepollution.Noisepollution.
	4 <sup>th</sup>	DoubtClearingClassandAssignment QuestionsDiscussion.
9 <sup>th</sup>	1 <sup>st</sup>	Marinepollution,Noisepollution.
	2 <sup>nd</sup>	Solid waste Management: Causes, effects and control measures of urban and Industrial wastes.
	3 <sup>rd</sup>	Revision Class
	4 <sup>th</sup>	Role of an individual in prevention of pollution
10 <sup>th</sup>	1 <sup>st</sup>	Disaster management: Floods, earth Quake , cyclone and land slides.
	2 <sup>nd</sup>	Form unsustainable to sustainable development. Urban problems related to energy.
	3 <sup>rd</sup>	Waterconservation,rainwater harvesting,watershedmanagement
	4 <sup>th</sup>	Resettlement and rehabilitation of people; its problems and concern.
11 <sup>th</sup>	1 <sup>st</sup>	Environmental ethics: issue and possible solutions
	2 <sup>nd</sup>	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	3 <sup>rd</sup>	Air (prevention and control of pollution) Act.
	4 <sup>th</sup>	Air (prevention and control of pollution) Act.
12 <sup>th</sup>	1 <sup>st</sup>	Doubt Clear Class
	2 <sup>nd</sup>	Water (prevention and control of pollution) Act.
	3 <sup>rd</sup>	Assignment
	4 <sup>th</sup>	Publicawareness.
13 <sup>th</sup>	1 <sup>st</sup>	Population growth and variation among nations
	2 <sup>nd</sup>	Populationexplosion-familywelfare program
	3 <sup>rd</sup>	Assignment question Discussion
	4 <sup>th</sup>	Environment and human health
14 <sup>th</sup>	1 <sup>st</sup>	Last Class Discussion
	2 <sup>nd</sup>	Human rights.
	3 <sup>rd</sup>	Human rights.
	4 <sup>th</sup>	Value education
15 <sup>th</sup>	1 <sup>st</sup>	ClassTest
	2 <sup>nd</sup>	Internal question Discussion
	3 <sup>rd</sup>	Role of information technology in environment and human health.
	4 <sup>th</sup>	Discussion Sample paper question