

## LESSON PLAN

<b>Name of Faculty :</b>	Ms. Rajni Narang
<b>Discipline :</b>	B. Tech
<b>Semester :</b>	2 <sup>nd</sup>
<b>Subject :</b>	Environmental Studies
<b>Lesson Plan Duration :</b>	15 weeks (from January,2018 to April,2018)
<b>Work Load per week (Lecture/ Practical in hours) :</b>	Lectures- 03

Week	Theory	
	Lecture Day	Topic (including assignment/test)
1 <sup>st</sup>	1 <sup>st</sup>	<b>Multidisciplinary nature of Environmental Studies</b> Introduction, Scope and Importance
	2 <sup>nd</sup>	Need for public awareness
	3 <sup>rd</sup>	Assignment
2 <sup>nd</sup>	4 <sup>th</sup>	<b>Natural Resources :</b> General discussion on Natural Resources
	5 <sup>th</sup>	Forest resource
	6 <sup>th</sup>	Mineral resources
3 <sup>rd</sup>	7 <sup>th</sup>	Energy resources
	8 <sup>th</sup>	Food resources
	9 <sup>th</sup>	Water resource
4 <sup>th</sup>	10 <sup>th</sup>	Land resources
	11 <sup>th</sup>	Role of an individual in conservation of natural resources
	12 <sup>th</sup>	Equitable use of resources for sustainable life styles
5 <sup>th</sup>	13 <sup>th</sup>	Class Test
	14 <sup>th</sup>	<b>Ecosystem :</b> Concept of an ecosystem, structure and function of an ecosystem, producers, consumers and decomposers, energy in the ecosystem
	15 <sup>th</sup>	Energy in the ecosystem
6 <sup>th</sup>	16 <sup>th</sup>	Ecological succession
	17 <sup>th</sup>	Food chain, food webs and ecological pyramids
	18 <sup>th</sup>	Introduction, types, characteristics features, structure and function of the following ecosystem forest ecosystem, grass land ecosystem
7 <sup>th</sup>	19 <sup>th</sup>	Desert ecosystem,
	20 <sup>th</sup>	Aquatic ecosystem (ponds, stream, lakes, rivers, oceans, estuaries)
	21 <sup>st</sup>	Class Test
8 <sup>th</sup>	22 <sup>nd</sup>	<b>Biodiversity and its conservation</b>

		Introduction, definition, genetic, species and ecosystem diversity biogeographically
	23 <sup>rd</sup>	Classification of India, value of biodiversity, consumptive use, productive use, social ethical, aesthetic and option values
	24 <sup>th</sup>	Biodiversity at global, national and local levels. India as a megadiversity nation
9 <sup>th</sup>	25 <sup>th</sup>	Hot spots of diversity, threats of biodiversity nation, habitat loss, poaching of wild animals
	26 <sup>th</sup>	Man wildlife conflict, endangered and endemic species of India conservation of biodiversity; in situ and ex-situ conservation of biodiversity
	27 <sup>th</sup>	Class Test
10 <sup>th</sup>	28 <sup>th</sup>	<b>Environmental pollution</b> Definition, causes effects and control measures of; air pollution
	29 <sup>th</sup>	Water pollution, soil pollution noise pollution, marine pollution, thermal pollution, nuclear pollution
	30 <sup>th</sup>	Disaster management: flood, earthquake
11 <sup>th</sup>	31 <sup>st</sup>	Cyclone and landslides
	32 <sup>nd</sup>	Solid waste management: causes, effects and control measures of urban and industrial waste
	33 <sup>rd</sup>	Role of individual in prevention of pollution; pollution case studies
12 <sup>th</sup>	34 <sup>th</sup>	Disaster management: flood earthquake cyclone and landslides
	35 <sup>th</sup>	PPT
	36 <sup>th</sup>	<b>Social Issues and The Environment</b> From unsustainable and sustainable development, urban problems related to energy: water conservation, rain water harvesting, watershed management
13 <sup>th</sup>	37 <sup>th</sup>	Resettlement and rehabilitation of people, its problems and concerns case studies
	38 <sup>th</sup>	Environmental ethics: issues and possible solution; climate changes, global warming
	39 <sup>th</sup>	Acid rain, ozone layer depletion
14 <sup>th</sup>	40 <sup>th</sup>	Nuclear accidents and holocaust, case studies. Waste land reclamation, consumerism and waste products
	41 <sup>st</sup>	Environment protection acts, Air (prevention and control of pollution) acts, Water (prevention and control of pollution), Wildlife protection acts forest conservation acts, issues involved in enforcement on environmental legislation, public awareness
	42 <sup>nd</sup>	<b>Human Population and Environment</b> Population growth, variation among nation; population explosion
15 <sup>th</sup>	43 <sup>rd</sup>	Family welfare program, environment and human health, human rights, value education, HIV/AIDS
	44 <sup>th</sup>	Woman and child welfare; role of information technology in environment and human health, case studies
	45 <sup>th</sup>	Class Test