

**DEPARTMENT OF CIVIL ENGINEERING  
LESSON PLAN**

SUBJECT NAME- ENVIRONMENTAL STUDIES (TH-5)  
SEMESTER – 3<sup>rd</sup> B      TOTAL PERIODS-60  
PER WEEK-4

TOTAL NO OF WEEK-  
CLASSES ALLOTTED

NAME OF THE FACULTY-JAY LALITA LENKA  
Branch-CIVIL ENGG.  
SUBJECT-EVS(3<sup>rd</sup> C)

WINTER SESSION (2020-2021)

Week	Dates	No.of periods available	Topics to be covered	Topics actually covered	Shortfall if any	Reasons	Date of makeup of shortfalls	Initials of faculty
2 <sup>nd</sup> week of September	6/9/2020 To 12/9/2020	4	<b>1. The multidisciplinary nature of environmental studies.</b> 1.1 Definition 1.2 scope and importance 1.3 Need for public awareness.					
3 <sup>rd</sup> week of September	13/9/2020 To 19/9/2020	3	<b>2.Natural resources</b> 2.1 Renewable and non renewable resources:  Natural resources and associated problems 2.2 Forest resources: Use and over Exploitation, deforestation, case studies, Timber extraction, mining, dams and their effect on forest and tribal people. 2.3 Water resources: Use and over utilization of surface and ground water, floods, drought, conflict over water, dam's benefits and problems.					
4 <sup>th</sup> week of September	20/9/2020 To 26/9/2020	4	2.4 Mineral Resources: Use and exploitation, environmental effect of extracting and using mineral resources. 2.5 Food resources: World food problem, Changes caused by agriculture and over grazing, effect of modern agriculture, fertilizer pesticides problems, water logging salinity. 2.6 Energy resources: Growing energy need, renewable and non renewable energy sources use of alternate energy sources.					
5 <sup>th</sup> week of September	27/9/2020 To 30/9/2020	3	2.7 Land resources: Land as resources, land degradation, man induces landslides, soil erosion, and desertification 2.8 Role of individuals in conservation of natural resources. 2.9 Equitable use of resources for sustainable life styles.					
1 <sup>st</sup> week of October	1/10/2020 To 3/10/2020	1	<b>3. Ecosystem</b> 3.1 Concept of an ecosystem 3.2 Structure and function of an eco system					

	10/10/2020		3.4 Energy flow in ecosystem 3.5 Ecological succession 3.6 Food chain, food webs and ecological pyramid					
3 <sup>rd</sup> week of October	11/10/2020 To 17/10/2020	4	3.7 Introduction, types characteristics features structure and function of following ecosystem <ul style="list-style-type: none"> <li>• Forest ecosystem</li> <li>• Aquatic ecosystem (pond, river, lake, oceans, estuaries)</li> </ul> <b>Unit-4 Biodiversity and its conservation</b> 4.1-Introduction-Definiton: genetics, species, and ecosystem diversity					
4 <sup>th</sup> week of October	18/10/2020 To 24/10/2020	4	4.2 Biogeographically classification of India. 4.3 Value of Biodiversity					
5 <sup>th</sup> week of October	25//10/2020 To 31/10/2020	3	4.4 Biodiversity at global, national, local level 4.5 Threats of biodiversity: habitat loss , poaching of wildlife , man-wildlife conflict					
1 <sup>st</sup> week of November	1/11/2020 To 7/11/2020	4	<b>Unit 5: Environmental Pollution: (18 periods)</b> Definition Causes, effects and control measures of: 5.1 Air pollution.  5.2 Water pollution  5.3 Soil pollution					
2 <sup>nd</sup> week of November	8/11/2020 To 14/11/2020	4	5.4 Marine pollution  5.5 Noise pollution  5.6 Thermal pollution 5.7 Nuclear hazards.					
3 <sup>rd</sup> week of November	15/11/2020 To 21/11/2020	4	5.8 Solid waste Management: Causes, effects and control measures of urban and industrial wastes. 5.9 Role of an individual in prevention of pollution. 5.10 Disaster management: Floods. earth quake, cyclone and land slides					
4 <sup>th</sup> week of November	22/11/2020 To 28/11/2020	4	<b>Unit 6: Social issues and the Environment (12 periods)</b> 6.1 Form unsustainable to sustainable development.  6.2 Urban problems related to energy.  6.3 Water conservation, rain water harvesting, water shed management.					

			problems and concern.					
5 <sup>th</sup> week of November	29/11/2020 To 30/11/2020	0						
1 <sup>st</sup> week of December	1/12/2020 To 5/12/2020	3	6.5 Environmental ethics: issue and possible solutions.  6.6 Climate change , global warming , acid rain , ozone layer depletion , nuclear accidents and holocaust , case studies.					
2 <sup>nd</sup> week of December	6/12/2020 To 12/12/2020	4	6.7 Air (prevention and control of pollution) Act.  6.8 Water (prevention and control of pollution) Act  6.9 Public awareness.  <b>Unit 7: Human population and the environment (09 periods)</b> 7.1 Population growth and variation among nations.					
3 <sup>rd</sup> week of December	13/12/2020 To 19/12/2020	4	7.1 Population growth and variation among nations.  7.2 Population explosion-family welfare program.  7.3 Environment and human health.  7.4 Human rights					
4 <sup>th</sup> week of December	20/12/2020 To 26/12/2020	4	7.5 Value education  7.6 Role of information technology in environment and human health.  REVISION					
5 <sup>th</sup> week of December	27/12/2020 To 31/12/2020	4						