

*Name of the teaching faculty - Sakunitha Patti*

| Name of the teaching faculty – <i>Saimritha Patil</i>                                   |                            |  |                            |                            |
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| LESSON PLAN ENVIRONMENTAL STUDIES FOR 3TH SEM, CIVIL ENGG, WINTER 2023 W.E.F.01.08.2023 |                            |  |                            |                            |
| WEEK NO.  | DATE                       | TOPIC  | PERIODS ASSIGNED PER TOPIC | PERIODS AVAILABLE PER WEEK |
| W1  | 01.08.23<br>TO<br>05.08.23 | Unit 1: The Multidisciplinary nature of environmental studies Definition, scope and importance, Need for public awareness.   | 4                          | 4                          |
| W2  | 07.08.23<br>TO<br>12.08.23 | Unit 2: Natural Resources Renewable and non renewable resources: a) Natural resources and associated problems. <input type="checkbox"/> Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people. <input type="checkbox"/> Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. <input type="checkbox"/> Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. <input type="checkbox"/> Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity,. <input type="checkbox"/> Energy Resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources, case studies. <input type="checkbox"/> Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification. b) Role of individual in conservation of natural resources. c) Equitable use of resources for sustainable life styles. |                            | 4                          |
| W3  | 14.08.23<br>TO<br>19.08.23 |  | 10                         | 4                          |
| W4  | 21.08.23<br>TO<br>26.08.23 |  |                            | 4                          |

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|    |                            | <p>Unit 3: Systems</p> <p>☐ Structure and function of an eco system.</p> <p>☐ Ecological succession.</p> <p>☐ Ecological pyramids.</p> <p>☐ Introduction, types, characteristic features, structure and function of the following eco system:</p> <p>☐ Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)</p>   |   |   |
| W5 | 28.08.23<br>TO<br>02.09.23 |   | 8 | 2 |
| W6 | 04.09.23<br>TO<br>09.09.23 |   |   | 2 |
| W7 | 11.09.23<br>TO<br>16.09.23 |   |   | 4 |
| W8 | 18.09.23<br>TO<br>23.09.23 |   | 8 | 2 |
| W9 | 25.09.23<br>TO<br>30.09.23 | 4   |   |   |
|    |                            | <p>Unit 4: Biodiversity and it's Conservation and ecosystem diversity.</p> <p>☐ Introduction-Definition: genetics, species and ecosystem diversity.</p> <p>☐ Biogeographically classification of India.</p> <p>☐ Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optimal values.</p> <p>☐ Biodiversity at global, national and local level.</p> <p>☐ Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.</p> |   |   |

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| W10 | 02.10.23<br>TO<br>07.10.23 | <p>Unit 5: Environmental Pollution. Definition Causes, effects and control measures of:</p> <p>a) Air pollution. b) Water pollution. c) Soil pollution d) Marine pollution e) Noise pollution. f) Thermal pollution g) Nuclear hazards.</p> <p>Causes, effects and control measures of urban and industrial wastes.</p> <p>individual in prevention of pollution.</p> <p>Disaster management: Floods, earth quake, cyclone and landslides.</p>  | 4  |   |
| W11 | 09.10.23<br>TO<br>14.10.23 |   | 12 | 4 |
| W12 | 16.10.23<br>TO<br>21.10.23 |   | 4  | 4 |
| W13 | 25.10.23<br>TO<br>28.10.23 |   | 4  | 4 |
| W14 | 30.10.23<br>TO<br>04.11.23 | <p>Unit 6: Social issues and the Environment</p> <p>development.</p> <p>conservation, rain water harvesting, water shed management.</p> <p>Resettlement and rehabilitation of people; its problems and concern.</p> <p>Environmental ethics: issue and possible solutions.</p> <p>Climatechange, globalwarming, acidrain, ozone layer depletion, nuclear accidents and holocaust, case studies.</p> <p>Air (prevention and control of pollution) Act.</p> <p>Water (prevention and control of</p> <p>Form unsustainable to sustainable</p> <p>Water</p> | 10 | 4 |

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|     | 06.11.23<br>TO<br>11.11.23 | pollution) Act. <input type="checkbox"/> Public awareness.   |  | 4 |
| W15 |                            |  |  |   |
| W16 | 13.11.23<br>TO<br>18.11.23 | Unit 7: Human population and the environment<br>among nations. <input type="checkbox"/> Population explosion- family welfare program. <input type="checkbox"/> Human rights.<br><input type="checkbox"/> Value education <input type="checkbox"/> Role of information technology in<br>environment and human health. | 8  | 4 |
| W17 | 20.11.23<br>TO<br>25.11.23 |  |  | 4 |
| W18 | 28.11.23<br>TO<br>30.11.23 |  | REVISION & PREVIOUS YEAR QUESTION DISCUSSION | 3 |

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