Odd Semester Lesson Plan

Teacher name: Dr.meenu rathi

**Paper – II Plant Ecology**

October 2020

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| **Introduction to Ecology:** Definition; scope and importance; levels of organization.  **Environment:** Introduction; environmental factors- climatic (water, humidity, wind, light, temperature),  edaphic (soil profile, physico-chemical properties), topographic and biotic factors (species interaction).  methods of analysis; ecological succession.  **Biogeochemical Cycles:** carbon and nitrogen; hydrological (water) cycle. |

November 2020

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| Adaptations of plants to water stress and salinity (morphological and anatomical features of hydrophytes,  xerophytes and halophytes |

December 2020

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| **Population Ecology:** Basic concept; characteristics; biotic potential, growth curves; ecotypes and ecads.  **Community Ecology:** Concepts; characteristics (qualitative and quantitative-analytical and synthetic); |

January2021

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| **Ecosystem:** Structure (components) and functions (trophic levels, food chains, food webs, ecological  pyramids and energy flow) |

February 2021

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| .  **Phyto-geography:** Phyto-geographical regions of India; vegetation types of India (forests).  **Environmental Pollution:** Sources, types and control of air and water pollution.  **Global Change:** Greenhouse effect and greenhouse gases; impacts of global warming; carbon trading. |