Odd Semester Lesson Plan

Teacher name: DR.SHIKHA JAGGI

**Paper-I : Environmental Biology**

October 2020

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| 1. **Basic concepts of ecology**: Definition, signification. Concepts of habitat and ecological  niche.  2. **Factors affecting environment**: Abiotic factors (light-intensity, quality and duration),  temperature, humidity, topography; edaphic factors; Biotic factors.  energy flow-food chain, food web, trophic structure; ecological pyramids concept of  productivity. |

November 2020

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| 3. Introduction to major ecosystemt of the world.  4. **Ecosystem:** Concept, components, properties and functions; Ecological energetics and |

December 2020

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| 5. **Biogeochemical cycles:** Concept, reservoir pool, gaseous cycles and sedimentary cycles.  6. **Population**: Growth and regulation. |

January2021

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| 7. Concept of biodiversity and conservation of natural resources.  8. Migration in fishes and birds.  9. Parental care in animals. |

February 2021

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| 10. **Population interactions:** Competition, predation, parasitism, commensalisms and mutualism.  11. **Environmental Pollution:** Air, water, soil and management strategies. |