**WEEK WISE LESSON PLAN, VthSemester 2022-23**

Name of the Assistant Professor: **Dr Rohini Singh,**

Class &Section: **B.Sc. MEDICAL, VthSem,** Subject: **BOTANY, Paper II**

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|  | **Month:September, 2022**

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| **Weeks** | **Topics** |
| **Week 1** | Introduction to Ecology: Definition; scope and importance; levels of organization.  |
| **Week 2** | Introduction; environmental factors- climatic :water,  |
| **Week 3** | Introduction; environmental factors- climatic :, humidity, wind |
| **Week 4** | Introduction; environmental factors- climatic :, light,  |
| **Week 5** | Introduction; environmental factors- climatic :temperature), |

**Month:October, 2022**

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| **Weeks** | **Topics** |
| **Week 1** | Edaphic Factors (soil profile, physico-chemical properties), |
| **Week 2** | Topographic Factors |
| **Week 3** | Biotic factors (species interaction). |
| **Week 4** | Biotic factors (species interaction).Test |

**Month:November, 2022**

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| **Week** | **Topics** |
| **Week 1** | Adaptations of plants to water stress and salinity (morphological and anatomical features of hydrophytes |
| **Week 2** | Adaptations of plants to water stress and salinity (morphological and anatomical features of Xerophytes |
| **Week 3** | Population Ecology: Basic concept; characteristics; biotic potential, growthcurves; ecotypes and ecads |
| **Week 4** | Student Seminar |
| **Week5** | Community Ecology: Concepts; characteristics (qualitative and quantitative-analytical andsynthetic); methods of analysis |

**Month:December, 2022**

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| **Week** | **Topics** |
| **Week 1** | Ecological succession |
| **Week 2** | Ecosystem: Structure (components) and functions(trophic levels, food chains, food webs, ecological pyramids and energy flow) |
| **Week 3** | Biogeochemical Cycles:carbon and nitrogen; hydrological (water) cycle. |
| **Week 4** | Phyto-geography: Phyto-geographical regions of India; vegetation types of India (forests). EnvironmentalPollution: Sources, types and control of air and water pollution. Global Change: Greenhouse effect andgreenhouse gases; impacts of global warming;, Carbon trading. |
| **Week 5** | Revision , Tests, Answer to Queries of students, Evaluation of Assignments |

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