**DEPARTMENT OF BOTANY**

Class and Section: **B. Sc. MEDICAL, 5th Semester,** Subject: **BOTANY( Paper II)**

**Session 2023-2024**

**Name of Teacher: Dr Rohini Singh**

**Week wise Lesson Plan for the month of August 2023**

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| **Weeks** | **Topics** |
| **Week 1** | Introduction of syllabus, Test of Previous knowledge, Introduction of Lesson Plan , Question Paper Style , Marking Pattern etc. |
| **Week 2** | UNIT-I Introduction to Ecology: Definition; scope and importance; levels of organization. Environment: Introduction; Test |
| **Week 3** | Environmental factors- climatic (Wind, Light, temperature),  Test |
| **Week 4** | Environmental factors- climatic (Temperature, water, humidity),  . Test |

**Week wise Lesson Plan for the month of September 2024**

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

Week wise Lesson Plan **for the month of October 2024**

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| **Week** | **Topics** |
| **Week 1** | Distribution of topics of student seminars, 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 , Specimen and slide study  Class test |
| **Week 3** | Population Ecology: Basic concept; characteristics; biotic potential, growth  curves; ecotypes and ecads, Student Seminars |
| **Week 4** | Ecological succession  Class Test  Student Seminars |
| **Week 5** | Community Ecology: Concepts; characteristics (qualitative and quantitative-analytical and  synthetic); methods of analysis, Student Seminar |

**Weekwise Lesson Plan for the month of November 2024**

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| **Week** | **Topics** |
| **Week 1** | Ecosystem: Structure (components) and functions(trophic levels, food chains, food webs, ecological pyramids and energy flow)  Biogeochemical Cycles:  carbon and nitrogen; hydrological (water) cycle ,Class test.  Student Seminars |
| **Week 2** | Change: Greenhouse effect and  greenhouse gases; impacts of global warming;, Carbon trading.  Student Seminars  Quiz  Group discussion |
| **Week 3** | *Diwali Holidays* |
| **Week 4** | Phyto-geography: Phyto-geographical regions of India; vegetation types of India (forests). Environmental  Pollution: Sources, types and control of air and water pollution. Global Warming,  Revision  Student’s Querries |