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

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

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|  | **Month:September, 2022**   |  |  | | --- | --- | | **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**   |  |  | | --- | --- | | **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**   |  |  | | --- | --- | | **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, growth  curves; ecotypes and ecads | | **Week 4** | Student Seminar | | **Week5** | Community Ecology: Concepts; characteristics (qualitative and quantitative-analytical and  synthetic); methods of analysis |   **Month:December, 2022**   |  |  | | --- | --- | | **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). Environmental  Pollution: Sources, types and control of air and water pollution. Global Change: Greenhouse effect and  greenhouse gases; impacts of global warming;, Carbon trading. | | **Week 5** | Revision , Tests, Answer to Queries of students, Evaluation of Assignments | |