

**CURRICULUM PLAN 2024-25**  
**Dr. Ranjana Roy Mishra**  
**(ODD Semesters: I, III, V)**  
**NEP Implemented in Semester I, III & V**

**B.Sc. (Hons) Botany**  
**Semester I: ( NEP )**  
**Plant Diversity and Evolution (BOT- DSC-1)**  
**(August 29- December 2024)**

S.No	Practical	Schedule
1	To study structure of TMV and Bacteriophage (electron micrographs/models).	September 2024
2	To study morphology of <i>Volvox</i> , <i>Oedogonium</i> , <i>Chara</i> , <i>Fucus</i> and <i>Polysiphonia</i> (Temporary preparation/specimens/slides).	September 2024
3	To study <i>Rhizopus</i> , <i>Penicillium</i> , <i>Alternaria</i> (Temporary preparations), symptoms of rust of wheat, white rust of crucifer (specimen).	September 2024
4	To study <i>Marchantia</i> (morphology, WM of rhizoids and scales), <i>Anthoceros</i> (morphology), <i>Sphagnum</i> (morphology, WM of leaf), <i>Funaria</i> (morphology WM of rhizoid and leaf).	October 2024
5	To study <i>Selaginella</i> (morphology, WM of strobilus and spores), <i>Equisetum</i> (morphology, WM of spores), <i>Pteris</i> (morphology, tease mount of sporangia and spores).	October 2024
6	To study <i>Cycas</i> (morphology, leaf, leaflet anatomy, coralloid root, bulbils, megasporophyll and microsporophyll); <i>Pinus</i> (morphology of dwarf shoot, needle anatomy, male and female cones, WM pollen grains).	October 2024
7	To study variation in leaf venations in dicots and monocots (at least two specimens each).	November 2024
8	To study the types of inflorescences in angiosperms (through specimens).	November 2024
9	To study the types of fruits in angiosperms (through specimens).	December 2024
10	Mock and Final Practical Exam	December 2024