

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)
Cell Biology:Organelles and Biomolecules (BOT-DSC-2)
(August 29- December 2024)

S.No	Practical	Schedule
1.	Study of cell and its organelles with the help of electron micrographs and other digitalresources.	September 2024
2	Study of plant cell structure with the help of epidermal peel mount of <i>Allium/Rhoeo/Crinum</i> .	September 2024
3	Microchemical tests for carbohydrates (reducing, non-reducing sugars and starch), lipidsand proteins.	September 2024
4	Separation of chloroplast pigments by paper chromatography/ Thin LayerChromatography.	October 2024
5	Separation of amino acids by paper chromatography.	October 2024
6	Study the effect of organic solvent and temperature on membrane permeability.	October 2024
7	Demonstration of the phenomenon of protoplasmic streaming in <i>Hydrilla</i> leaf	November 2024
8	Demonstration of the phenomenon of plasmolysis and deplasmolysis.	November 2024
9	Demonstration of separation of biomolecules by dialysis.	December 2024
10.	Mock and Final Practical Exam	December 2024

