

Pt. Sundarlal Sharma (Open) University Chhattisgarh, Bilaspur

Basic Requirement for Establishment of Graduation **BOTANY** Laboratory

S.no.	Class	Syllabus	Material Required
1.	B.Sc. Ist	Microbes and Cryptogams and cell Biology and Genetics	<ol style="list-style-type: none"> 1. Disserting Microscope – 2 2. Compound Microscope – 23 3. Watch glass (Different Size 200 4. Slide (Box) – 10 Pkt 5. Cover ship – 10 Pkt 6. Class Work Material (as per Syllabus) 7. Permanent Slides (as per Syllabus)+Cell division 8. Iodine Solution – 100 ml x5 9. Light green aqueous – 100ml x5 10. Safranine aqueous 11. Aceticarmine 1% (Himedia) 12. Charts of Life Cycle of Algae/ Fungi/Bryophyta/Pterid 13. Petri plates Borosil (different size) 14. Agar – Agar (Himedia) 15. Autoclave Vertical Small size 16. Centrifuge table tot 17. Charts of Mandolin Inheritance 18. Laboratory Spectrum 19. Stationary rack 20. Dropping Bottle 21. Glycerin 22. Lactophenol 23. Cotton Blue
2.	B.Sc. IInd	Gymnosperm and Angiosperm (Taxonomy Anatomy Embryology)	<ol style="list-style-type: none"> 1. Class work Materials, Cycas leaf, Coralloid root Stem, Microsporophyll, Rings , Euphoric stem 2. Permanent Slides (As above) + Cone L.S. 3. Class Work Material, Monocot root, Monocot System, dicotmot (Vandana root) Cucurbita Stem, Sunflower user stem, leaf of nearium,

			<ol style="list-style-type: none"> 4. Permanent Slides (As above) 5. Chats of Taxonomy (Plant families) Embryology and anatomy like anther tis, Types of ovale, L.S. of ovule, flowers 6. Microscope (Compound and disserfing) 7. Lab. Specimen 8. Plastic molded Specimen of mat from science however
3.	B.Sc. IIIrd	Physiology and biochemistry, Biotechnology & Ecology and Eco. Botany	<ol style="list-style-type: none"> 1. Gamong's potometer 2. Farmers photometer 3. Respirometer 4. Wilmot's bubbler 5. Apparatus for demons tration at aerobic respiration 6. Glassware's <ul style="list-style-type: none"> • Beaker (500, 250, 50, 100 ml) • Conical Flacks (500, 250, 150ml) • Pippetter (10ml, 5, 2, 1 ml) • Measuring Cylinder Plastic/glass (500 ml/200ml) • Chemical balance/ Electronic balance (100 gm and 1kg) • Sprit lamp • Wt box • Butter paper • Filter paper • What No. 1 Frilter paper • Mortan pastle • Tray (Metal+White paint) • Text Tubes diff size dorosil • Vim power • Brush • Blank Glass • Chrometography Chamber & Jar • Binocular micro scope • Digital Balance (0.001 gm) • Weighing Machine