

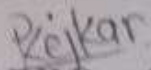
Teaching Plan

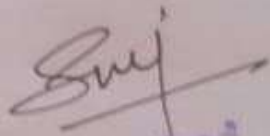
F. Y. B. Sc. - Botany: 2019- 20

Plant life and utilization I (BO 111)

(Semester - I; Paper - I)

Sr. No.	Month	Topics
1	July	<p>INTRODUCTION - General outline of plant kingdom (Lower Cryptogams: Thallophytes- Algae, Fungi & Lichens; Higher Cryptogams: Bryophytes and Pteridophytes; Phanerogams: Gymnosperms and Angiosperms- Dicotyledons and Monocotyledons). Distinguishing characters of these groups and mention few common examples from each.</p> <p>Revision and Assignment, Tutorial</p> <p>ALGAE – Introduction, General Characters, Classification (Bold and Wynne 1978) up to classes with reasons.</p> <p>Life Cycle of <i>Spirogyra</i> w.r.t. Habit, Habitat, Structure of thallus, structure of typical cell, Reproduction- Vegetative, Asexual and Sexual, systematic position with reasons.</p>
2	August	<p>Utilization of Algae in Biofuel Industry, Agriculture, Pharmaceuticals, Food and Fodder</p> <p>Revision and Assignment, Tutorial</p> <p>LICHENS – Introduction, General Characters, Nature of Association, forms- Crustose, Foliose and Fruticose. Utilization of lichens.</p> <p>FUNGI – Introduction, General Characters, Classification (Ainsworth, 1973).</p> <p>Life Cycle of Mushroom- <i>Agaricus bisporus</i> w.r.t. Habit, Habitat, Structure of thallus, Structure of Sporocarp</p>
3	September	<p>Structure of Gill, Reproduction- Asexual and sexual, Systematic position. Utilization of Fungi in Industry, Agriculture, Food and Pharmaceuticals.</p> <p>Revision and Assignment, Tutorial</p> <p>BRYOPHYTES – Introduction, General Characters, Classification (G.M. Smith 1955)</p> <p>Life Cycle of <i>Riccia</i> w.r.t. Habit, habitat, external and internal structure of thallus, Reproduction- vegetative, asexual and sexual- Structure of sex organs, fertilization, structure of mature sporophyte, structure of spore, systematic position with reasons.</p> <p>Utilization: Bryophytes as ecological indicators, agriculture, fuel, industry and medicine.</p> <p>Revision and Assignment, Tutorial</p>
4	October	<p>Theory and Practical Internal Exam</p> <p>Theory and Practical external Exam</p>


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