

Department of Botany

**Outcomes of the Botany Courses taught in the B Sc
Programme**

Class	Course/ Paper	Course Outcome/ Objectives
FYBSc	Semester: I Paper: I BOT-101: Diversity of Lower Cryptogams	Course outcomes: 1. Provide identification technique of microbes, Viruses, Bacteria, Algae and Fungi. 2. Understand the systems of classification of Microbes, Viruses, Bacteria, Algae and Fungi, and its interdisciplinary approaches. 3. Recognize members of the major microbes, Viruses, Bacteria, Algae, Fungi and their medicinal, economic importance for human welfare.
FYBSc	Semester I Paper II BOT-102: Morphology of Angiosperms	1. Students will able to understand ground plan of angiospermic plant. 2. Students will aware about vegetative and reproductive characteristics of angiospermic plant. 3. Students will able to understand the modifications and functions of plant parts.
FYBSc	Semester I Paper III BOT-103: Practical (Based on Bot.101 and Bot.102)	1. Students will able to learn the actual structure of Lower cryptogams. 2. Students will able to understand the actual morphology of Angiospermic plants too. 3. Provide lab-based training in writing short species descriptions and illustration.
FYBSc	Semester II Paper I BOT-201: Diversity of Higher Cryptogams	1. Student will be able to understand the basic knowledge of the subject. 2. To understand the basic structure and study the comparative characteristic of Bryophytes and Pteridophytes. 3. Also, to understand the structural similarities and differences among both the groups. 4. Student will be able to aware developmental stages of life cycle of higher cryptogamic plants. 5. To facilitate students for taking up and shaping a successful career in botany.

FYBSc	Semester II Paper II BOT-202: Taxonomy of Angiosperms	<ol style="list-style-type: none"> 1. Understanding of angiospermic plants Causes of phenomenal succession and alternation of generation. 2. Understand the systems of classification of angiosperms, nomenclature and interdisciplinary approaches. 3. Recognize members of the major angiosperm families by identifying their diagnostic features, economic and medicinal importance. 4. Understand botanical gardens and herbarium technique
FYBSc	Semester II Paper III BOT-203: Practical (Based on Bot-201 and Bot-202)	<ol style="list-style-type: none"> 1. Students will able to learn the actual structure of Higher cryptogams. 2. Students will also able to learn the taxonomic hierarchy of all angiospermic plants . 3. Provide lab-based training in writing short species descriptions and illustration.
SYBSc	Semester: III PAPER-I BOT- 301: PLANT ANATOMY	<ol style="list-style-type: none"> 1. To know scope and importance of plant anatomy 2. To study various tissue systems 3. To know primary structure of dicot and monocot plants 4. To study normal secondary growth in plants and their causes 5. To study protective tissue system
SYBSc	Semester: III PAPER – II BOT-302: PLANT PHYSIOLOGY	<ol style="list-style-type: none"> 1. Students will able to know importance and scope of plant physiology. 2. Students will able to study plant and plant cell in relation to water. 3. Students will able to learn different process in relation with structure of organism and its environment. 4. Students will able to understand mechanism of absorption of water, gases and solutes. 5. Students will able to learn plant growth at various level.
SYBSc	Semester: III PAPER-III BOT- 303: Practical (Based on BOT- 301 and BOT- 302)	<ol style="list-style-type: none"> 1. Students will able to learn the actual <i>primary structure of dicot and monocot plants</i> 2. Students will able to learn plant growth at various level.
SYBSc	Semester: III PAPER – IV SKILL ENHANCEMENT COURSE (SEC) BOT- 304:	<ol style="list-style-type: none"> 1. Students will able to learn the history, scope and importance of mushroom technology 2. Students will able to understand nutritional and medicinal values of edible mushrooms 3. Students will able to know about the storage, marketing and various food preparations of

	MUSHROOM CULTURE TECHNOLOGY	<p>mushrooms.</p> <p>4. Students will understand the economics of mushroom cultivation</p>
SYBSc	Semester: IV PAPER I BOT- 401: PLANT METABOLISM	<p>1. Students will able to know the scope and importance of plant metabolism.</p> <p>2. Students will able to study the properties, mechanism and classification of enzymes.</p> <p>3. Students will able to learn the process of photosynthesis in higher plants, C3, C4 and CAM pathways.</p> <p>4. Students will able to study respiration in higher plants.</p>
SYBSc	Semester: IV PAPER II/ BOT- 402: PLANT EMBRYOLOGY	<p>1. Students will able to learn the scope and Importance of Embryology</p> <p>2. Students will able to understand structure of micro and megasporangium.</p> <p>3. Students will able to study pollination, fertilization, Endosperm and Embryogeny.</p>
SYBSc	Semester: IV PAPER III BOT-403: Practical (Based on BOT - 401 and BOT - 402)	<p>1. Students will get exposure of techniques in embryology</p> <p>2. Students will able to learn the process of photosynthesis in higher plants, C3, C4 and CAM Pathways and respiratory pathway of many cycles.</p>
SYBSc	Semester: IV PAPER IV SKILL ENHANCEMENT COURSE (SEC) BOT-404: NURSERY AND GARDENING	<p>1. Students will know the concept of nursery and Gardening.</p> <p>2. Students will improve the skills for growing fresh and safe vegetables.</p> <p>3. Students will get awareness about home gardening.</p> <p>4. Students develop different skills regarding the gardening operations.</p>