

COURSE OUTCOME OF BOTANY (FYUGP 2024-25)

Year	Semester	Course type	Course code	Course name	Course Outcome
I	1	Major	BOTAMAJ101	Origin of Life and Plant Diversity	(1) Schematic knowledge of collection and subsequent plant specimens. (2) Proper arrangement of preserved plant specimens. (3) Choosing suitable staining and mounting protocols for study of plant specimens.
I	1	Major	BOTAMAJ102	Morphology and Anatomy	(1) Structural and functional differences between dicot and monocot. (2) Structure and functional differences between the three plant tissue systems. (3) Interdisciplinary application of plant morphology and anatomy.
I	1	Minor	BOTAMIN101	Introduction to Life and Plant Diversity	(1) Concept of origin and evolution of life. (2) Handling microscopy, staining and mounting of plant specimens, and, (3) Methods of collection, identification and preservation

					of plant specimens.
I	2	Major	BOTAMAJ203	Biomolecules and Cell Biology	(1) Students learn to distinguish different biomolecules and can check their presence in different samples (2) Student learn the structure and function of different parts of cell and its importance. (3) Able to investigate protein, carbohydrate and lipid with their active role in cellular function.
I	2	Major	BOTAMAJ204	Microbiology	(1) Selection of suitable media for growth and reproduction for microbes. (2) Choosing proper sterilization techniques. (3) Collection and preservation of specific microorganisms.
I	2	Minor	BOTAMIN202	Cell Biology	(1) Student learn the structure and function of different parts of cell and its importance. (2) Understanding the characteristic features of the stages of cell division.
II	3	Major	BOTAMAJ305	Phycology and Bryology	(1) Concept of Identification students can

					<p>identify algae and bryophytes.</p> <p>(2) Students will be able to analyze the algal and bryophyte diversity and predict their effect on the particular ecosystem.</p>
II	3	Major	BOTAMAJ306	Mycology and Plant Pathology	<p>(1) Collection, identification and preservation of different fungal and lichen specimens.</p> <p>(2) Knowledge of etiology of some representative plant pathogenic fungi, bacteria and virus</p> <p>(3) Media preparation and isolation of fungal plant pathogen.</p>
II	3	Minor	BOTAMIN303	Microbes, Algae and Fungi	<p>(1) Ability to apply microbiological knowledge to solve real-world problems in health, environment, and industry.</p> <p>(2) Exposure to the role of microbes in fermentation, biofertilizers, and biopesticides.</p> <p>(3) Competency in preparing and examining algal and fungal specimens using microscopy and standard protocols.</p>

II	4	Major	BOTAMAJ407	Pteridology, Gymnology and Palaeobotany	1. Students will learn evolutionary trends of pteridophytes, gymnosperms and allied plants. 2. They will know methods of collection, identification and preservation of plant specimens of these plant groups.
II	4	Major	BOTAMAJ408	Taxonomy of Angiosperms	(1) Ability to use different techniques for identifying and classifying plants. (2) Learn about the method of working out and preparing specimens for identification. (3) Learn about traditional and modern systems of classification of plants.
II	4	Minor	BOTAMIN404	Archegoniates	(1) Analytical skills to compare plant groups and understand evolutionary patterns. (2) Ability to classify plant groups and explain evolutionary transitions among Archegoniates.