Name of the Department : BOTANY
Programme : PG

S.No.	Course Code	Course Name	Course outcome
1.	17PBYC11	Taxonomy of Angiosperms	• Understand the morphological features of vegetative, inflorescence, fruits and seed characters. • Provide knowledge on botanical nomenclature, classifications, merits and demerits of various systems of classifications. • Understand the systematics positions of the selected families of the flowering plants with their economic importance. • Provide the knowledge about the identification of plant species. • Students to be familiar with local flora and herbarium techniques.
2.	17PBYC12	Developmental Botany	• Provide information about internal structure of stem, root and leaf. • Improve the knowledge about the general aspects of plant reproductive organs and embryo and its development. • Studied with a fundamental practices of plant embryology. • Provide the knowledge about the various aspects of morphogenesis. • Identifying the key aspects of embryology of Angiosperms. • Understand the process of formation of male and female sexual representatives. • Studied the mechanism of fertilization in angiosperms. • Improve the knowledge embryo development and endosperms.
3.	17PBYC13	Instrumentation and Bio-techniques	• Learning to different types of microscopes and their uses of biological science laboratories. • Describe the pH measurement in soil and water samples

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			• Realise the need of centrifuges and their uses in research • Understand the principle, Applications and different methods of chromatography. • Realise the importance of UV-Visible. • Describe the principle of flame photometer and bomb calorimeter
4.	17PBYC1P	Practical I Lab in Taxonomy of Angiosperms, Developmental Botany, Instrumentation and Biotechniques	• Understand the floral and morphological characters of various families. • Helps to know the permanent herbarium preparation techniques. • Improve the knowledge about the plant identification. • Learn to the key preparations of families, Genus and species. • Improve the knowledge about the general aspects of plant reproductive organs and embryo and its development. • Learning to different types of microscopes and their uses of biological science laboratories. • Realize the need of centrifuges and their uses in research • Understand the principle and different methods of chromatography.
5.	17PBY011	Herbal Botany	• Provide the knowledge about the importance of medicinal plants. • Studied to be more familiar in medicinal plants cultivation and conservation. • Learn to the making and process of medicinal plants. • Understand the systematic position, diagnostic feature and medicinal uses of selected plants. • Improved knowledge about different systems of medicinal plants (Siddha, Ayurveda and Unani). • Studied that the conservation methods of

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			medicinal plants.
SEMESTER II			
1.	17PBYC21	Plant Diversity (Algae, Fungi and Lichens, Bryophytes, Pteridophytes and Gymnosperms)	• Describe the essential features diversity of plant kingdom and their salient features. • Provided a thorough knowledge about structure and life cycle pattern of algae and bryophytes. • Study that the structure, reproduction, culture, classifications, life-cycle of fungi. • Understand the salient features of Pteridophytes and Gymnosperms.
2.	17BYC22	Cell and Molecular Biology	• Studied that about the structure and function of Cells. • Provide the knowledge on advances in cell biology. • Students to be studied about microscopy, cell organelles of Prokaryotic and Eukaryotic cells. • Understand gene regulation and chloroplast and mitochondria genome organization. • Helps to study the significance of mitosis and meiosis cell divisions. • Understand about the cellular components. • Gain knowledge about cell biology to selected examples of changes or losses in cell function.
3.	17PBYC23	Bioinformatics, Biostatics and Plant Biotechnology	• Improve the knowledge of data collection and Biostatistics methods. • Understand various media, sterilization, totipotency, cell induction, organogenesis. • Able to apply the techniques to develop a standard protocol for Plant Tissue Culture. • Have comprehensive knowledge on GM technology, bio-safety relations and germplasm storage.
4.	17PBYC2P	Practical –II –Lab in Plant Diversity Cell and Molecular	• Describe the essential features diversity of plant kingdom and their salient features. • Studied that about the structure and

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		Biology, Bioinformatics, Biostatics and Plant Biotechnology	function of Cells • Understand various media, sterilization, totipotency, cell induction, organogenesis.
5.	17PBYN21	Mushroom Cultivation	• Understand the cultivation process of mushrooms. • Provide the knowledge about spawn preparation technique. • Understand the various types mushroom diseases and control. • Provide the Knowledge about processing of mushrooms. • To become a entrepreneur through the knowledge of mushroom cultivation.
SEMESTER III			
1.	17PBYC31	Microbiology and Plant Pathology	• Understand the basics knowledge of microbiology includes types of microbes, classification and characterization. • Studied the history of microbiology and its applications. • Describe the classification of bacteria. • Explain the different types of viruses and plant diseases. • Provide the sufficient knowledge about the types of symptoms and their causative agents of diseases. • Understand the diversity of microbes and importance of classification of microorganisms.
2.	17PBYC32	Genetics and Evolution	• Study the principles and concept of Mendelian law. • Gain knowledge about mutation and population genetics. • Understand basic structure and function of DNA and chromosomes. • Provide sufficient knowledge of hybridization and concepts of genetics. • Understand the concept of genetic

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			recombination's at molecular level. • Studied the origins of the human species.
3.	17PBYC33	Biochemistry	• Discuss different metabolic pathways. • Relate the characteristics and role of enzymes. • Comprehend the lipid metabolism. • Understand Hormones, Vitamins and Alkaloids
4.	17PBYC3P	Practical- III: Lab in Microbiology, Plant Pathology, Genetics, Evolution and Biochemistry	• Understand the basics knowledge of microbiology includes types of microbes, classification and characterization. • Provide the sufficient knowledge about the types of symptoms and their causative agents of diseases. • Study the principles and concept of Mendelian law. • Understand basic structure and function of DNA and chromosomes. • Comprehend the lipid metabolism.
5.	17PBY031	Biodiversity and Conservation	• Understand vegetation and their relationship with the ecosystem. • Provide a thorough knowledge about environmental biology and ecosystem. • Acquire knowledge on ecosystem organization, biogeochemical cycle and ecosystem stability. • Comprehend the information on biodiversity, threats and conservations.
6.	17UBYO32	Palynology and Pollination Biology	• Learning about Palynology. • Provide the knowledge on Pollination in plants. • Understand the sexual incompatibility in plants. • Students to be familiar with embryonic processes. • Understand the various pollinations periods. • Explain the seeds dispersal mode of plants.

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SEMESTER IV			
1.	17PBYC41	Plant Physiology	• Describe the physiological phenomena of plants in terms of mechanisms. • Will know the overview of biorhythms; stress physiology of plants. • Understand photoperiodism and physiology of flowering.
2.	17PBYC42	Plant Ecology	• Understand vegetation and their relationship with the ecosystem. • Provide a thorough knowledge about environmental biology and ecosystem. • Acquire knowledge on ecosystem organization, biogeochemical cycle and ecosystem stability. • Comprehend the information on biodiversity, threats and conservations.
3.	17PBYC4P	Practical IV- Lab in Plant Physiology and Plant Ecology	• Understand vegetation and their relationship with the ecosystem. • Provide a thorough knowledge about environmental biology and ecosystem. • Acquire knowledge on physiological response of plants to various factors. • Understand the photosynthetic mechanism and related events of plants.