Department of Botany

Program Outcomes, Program Specific Outcomes

Programme Outcomes: B. Sc Botany

Department of Botany	After successful completion of three year degree program in Botany a student should be able to;
Programme Outcomes	PO-1. To create awareness in the students as an enlightened citizen with commitment to deliver one's responsibilities. PO-2. To Create awareness about identification of diseased plants for specific control measures. PO-3 To develop Taxonomic knowledge about plant identification and classification of exotic species. To inculcate scientific investigation among students for nation building. PO-4. • Students are handle with skills to analyses various problems, in the world by formulating an hypothesis, evaluation and validating the results. PO-5. Prepare the students for pursuing research or careers in plant sciences & environmental Science . PO-6. • Continue to acquire relevant knowledge, skills and appropriate professional activities to demonstrate highest standards of ethical issues in plant sciences.
Programme Specific Outcomes	PSO-1. Dr. Santosh Taware developed new plant verities like that new students fallow his path in various sector, developing new plant varieties. PSO-2. • Students will Understand and work out easily laws of Mendels & their progeny. PSO-3. To inculcate knowledge of surrounding plant sciences. PSO-4. Prepare and motivate students for research studies in Life Science. PSO-5. Students will be fluent in advance application in tissue culture, Biotechnology and Genetic Engineering. PSO-6. Empowering the students to pursue higher degrees in Botany at reputed academic institutions. PSO-7. To develop problem solving skills, thinking ability, creativity through assignments, Seminar, course work & project work. PSO-8.make aware and handle the sophisticated instruments/equipments.

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F.Y.B.Sc.

Course Details	Outcomes of the Course On successful completion of the course, students will able to,
Paper I **Diversity of microbes I**	• Students understand the diversity in the environment • Students classify the Algae, fungi, bacteria, viruses and lichen on the basis of character. • Students will be understand economic important of Algae, fungi, bacteria, viruses.
Paper II **Morphology of Angiosperm**	• Identification of plant with the help of morphology • Students studies various tissues in the plant and also known its function. • Studied flowering plants. • Will be able to identify different modification of roots stem and leaves. • Students will be known types of fruits and seeds.
Paper-IV **Diversity of Micro II**	• Students will be known by seen bryophyte plant in practical and also studies • Students understand primary level vascular system develops in Pteridophyta .
Paper-V **Histology , Anatomy and Embryology**	• Students studies different types of tissue and its functioning • Studied secondary growth in dicot plants. • Development of male and female gametophyte and Fertilization. • Development of dicot embryo and seeds.

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S.Y.B.Sc.	
Course Details	**Outcomes of the Course** On completion of the course, students will able to,
Paper – VII **Taxonomy of Angiosperm**	• Prepared for identification of plants and its families. • Students studied natural, artificial and phylogeny system of classification. • Concepts of binomial nomenclature genus and species .Students interested in making herbaria.
Paper – VIII **Plant ecology**	• Students known various climatic factors and its important (light, water and temperature) . • Students studies response of water to plant life (Hydrophytes, Xerophytes, epiphyte & halophyte). • Students able to understand ecosystem of all life, food chain and web & atmospheric cycle (Nitrogen & Phosphorous).
Paper – XI **Gymnosperm and Utilization of plants.**	• Studied fossils and its types • Studied life cycle of cycas ,pinus. • Students studied plant utilization food, fibres, beverages, vegetable, oil, medicinal plant and spices .
Paper – XII **Plant Physiology**	• Students studied plant water relation , mineral nutrition and translocation of solutes . • Students known enzymes, Properties nomenclature and classification. • Students studied growth regulatory factor (Hormones). • Students studied photosynthesis and respiration .

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T.Y.B.Sc.

Course Details	Outcomes of the Course On successful completion of the course.
Paper – XV **Cell Biology & molecular Biology**	• Students will able to understand structure & functions of cell organelles, Nucleus & chromosomes . • Explain basic features of cell division. • Understand structure & functions of DNA & its replication. • Chromosomal aberrations known in the others Organism.
Paper – XVI (C) **Plant Pathology**	• Classification of plant diseases understand on the basis of symptoms & causal organism. • Students studied deferent diseases cereals ,pulses, vegetable oil seeds ,cash crops ,Ornamentals ,weeds & trees . • Have applicative knowledge of various research institute in India • Understand diseases cycle & diseases management of various plants.
Paper – XIX **Genetics & Biotechnology**	• Understand Mendel's laws. • Solved numbers of problems related to interaction of gene at home. • Sex determination theory & sex linked inheritance through genetically human diseases.
Paper – XX **Microbiology & diseases Management**	• Prepare culture media & understand sterilization process. • Control methods for disease management. • Studied fungicides & pesticides. • Understand genetically modified organisms.

Co-ordinator
Internal Quality Assurance Cell
Yogeshwari Mahavidyalaya
Ambajogai

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