

Botany Department

VISION OF THE DEPARTMENT

- Making students more vibrant and dynamic so as a graduate they can be a better citizens of society.
- Increasing e - learning facilities in department.
- Promoting students to go for higher studies in Botany.
- Enhancing outdoor studies so students can better understand importance of environment.

MISSION OF THE DEPARTMENT

- To awaken the young minds and discover their talents both in theory and in practical botany, through dedication to teaching, commitment to students and innovative instructional methods.
- To support the developmental activities of the college and make the department vibrant.
- To impart quality Education and achieve Academic excellence through planning, leadership, brilliance, inspiration and effectiveness.
- To transform curriculum into outcome-oriented scenario.
- To develop the curriculum for fostering discovery-learning.
- To equip the students in solving the practical problems pertinent to daily life.
- To adopt recent pedagogical trends in education including like e-learning.
- To mold responsible citizens for nation-building and transforming the country towards the future.

PROGRAM OUTCOMES

- After completion of degree, students gain theoretical as well as practical knowledge in life sciences.
- A life science graduate as envisioned in this framework would be sufficiently competent in the field to undertake further discipline-specific studies, as well as to begin domain-related employment.
- Enable the graduate to prepare for national as well as international competitive examinations, especially SSC-CGL, UGC-CSIR NET and UPSC Civil Services Examination.
- Achieve the skills required to succeed in graduate school, professional school and the industries like agro product, Food processing industries, Fertilizer industries, pharmacy, drug development, microbiology, biochemistry, biotechnology etc.



- Learn laboratory skills and to safely transfer and interpret knowledge entirely in the working environment.
- Students will possess oral and written communication skills.
- Students will be able to work individually as well as in teams to survive in multidisciplinary environment.

COURSE OUTCOMES

- Outcome of course: 3 years degree course in Botany. Students who choose Botany as a subject in B.Sc come to know the basic principles of applied sciences like General Microbiology, introduction of biotechnology, biochemistry, Molecular Biology, Recombinant DNA Technology, Plant Biotechnology, Microbial Biotechnology.
- The student will be able to identify major groups of plants and compare the characteristics of lower (e.g. algae and fungi) and higher (angiosperms and gymnosperms) plants.
- The students will be able to explain various plant processes and functions, metabolism, concepts of gene, genome and how organism's function is influenced at the cell, tissue and organ level.
- Students will be able to understand adaptation, development and behavior of different forms of life.
- The understanding of networked life on earth and tracing the energy pyramids through nutrient flow is expected from the students.
- Being a student of botany students are able to understand basics of agriculture, horticulture, gardening and other allied fields.
- After studying taxonomy, physiology, genomics students got knowledge about use of plants and plant products in day to day life.
- Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Botany.
- Students will be able to use the evidence based comparative botany approach to explain the evolution of organism and understand the genetic diversity on the earth.
- Graduates in Botany will be eligible for pursuing higher education, M.Sc. programmes in different field of life science.
- Students will exhibit contemporary knowledge in Botany and students will be eligible for doing jobs in various agricultural fields like agronomy, agroforestry, floriculture etc.
- Annually students participate in science exhibition, science essay writing and science quiz, where they develop a conceptual and comprehensive knowledge of the subject and appreciation of plants and their impact on human lives.



- Students will be able to understand the potential of Botany in understanding the environmental issues like global warming, pollution, natural disasters etc.
- Students will be able to design, conduct experiments, analyze and interpret data for investigating environmental issues as they go through basics of experimentations through their course work.
- As a disciple of science a practical approach of students towards life will be enhanced.

SHARED PROGRAMS

- B.Sc. Medical (3-years) - 120 Students
- B.Sc. Biotechnology (3-years) - 30 Students

TEACHING FACULTY PROFILE

S. NO.	NAME	DESIGNATION	EDUCATIONAL QUALIFICATION
1.	DR. REKHA RANI	EXTENSION LECTURER	M.Sc. M.Phil NET Ph.D.
2.	DR. SAVITA	EXTENSION LECTURER	M.Sc. NET Ph.D.
3.	MR. SATPARKASH	EXTENSION LECTURER	M.Sc. NET

