

Ten prominent colleges

Total colleges
18



UNDERTAKING THE CHALLENGE OF THE SCIENTIFIC STUDY OF PLANTS

ELIGIBILITY CRITERIA

Applicants must have 55% or more marks in the aggregate of Physics, Chemistry, Biology/Biotechnology and passing in one compulsory language i.e. English with 50% marks. The previous criteria required the candidate to have an aggregate of 60% or more marks in Physics, Chemistry and Biology/Biochemistry/Biotechnology.

COURSE STRUCTURE

There will be 14 core papers, where students will study Microbiology and Phycology, Biomolecules and Cell Biology, Mycology and Phytopathology, Archegoniate, Anatomy of Angiosperms, Economic Botany, Genetics, Molecular Biology, Ecology, Plant Systematics, Reproductive Biology of Angiosperms, Plant Physiology, Plant Metabolism, and Plant Biotechnology. The papers will be divided into several units to be covered in different semesters.

Under the practical section, students will study electron micrographs/models of viruses – T-Phage and TMV, line drawings/

photographs of Lytic and Lyso-genic Cycle, types of bacteria to be observed from temporary/permanent slides/photographs, and electron micrographs of bacteria, binary fission, endospore, conjugation, root Nodule among other things.

In the remaining semesters, students will be taught biomolecules along with carbohydrates, lipids, proteins, and nucleic acids. They will also study bioenergetics, enzymes, cell and cell organelles, and cell division. Students will also learn about qualitative tests for carbohydrates and measurement of cell size by the technique of micrometry among other things.

CAREER OPTIONS

Students completing an undergraduate programme in Botany can go for research and higher studies and join the government sector or research companies as specialists. They can also look for employment in the food technology sector, health sector, and environmental awareness and protection. Students can also start their own nurseries.