

Programme Outcomes of B. Sc Botany:

- ❖ **Social responsibilities:** To a botanist no plant is a weed. Conservation of biodiversity in the era of urbanization and industrialization should be the priority. The courses students will go through during this 3 years under graduate program will teach students the value of natural wealth and their conservation. Awareness of society about planting trees, their medicinal and industrial values, role of ethno botany, herbal medicines will be top priority.
- ❖ **Knowledge development:** They will understand the range of plant diversity in terms of morphology, anatomy, phylogeny, classification and their interrelationship. Students will gather knowledge of biochemistry, physiology, cell biology, genetics, plant breeding and micro-propagation, tissue culture and horticulture.



- ❖ **Intellectual skill development:** Students are able to think logically and organize task into a structured form. Assimilate knowledge and ideas based on wide reading and in digital platforms.
- ❖ **Practical skills:** Students learn to carry out practical work, in the field and in the laboratory. An array of techniques & practical skills like identification of algae, fungi, bryophytes, pteridophytes, gymnosperms, plant morphology and anatomy, angiosperm taxonomy, vegetation analysis techniques, physiochemical analyses of plant materials, physiology-biochemistry, cytology and genetics will be learnt.
- ❖ **Environment and sustainable development:** Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge and requirement of sustainable development.
- ❖ **Project management:** Different projects, field works will prepare students how to plan and execute a project either individually or as a team. These experiences will be invaluable in long run.
- ❖ **Use of instruments:** Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.
- ❖ **Ability to use digital platform:** Use of different software enrich their communication skill and make them friendly to digital platform like Microsoft, Adobe acrobat, Adobe Photoshop, Google etc.
- ❖ **Ethics:** Being students of natural science ethics is the key to protect our mother nature. The principles of conservation need to be followed while collecting specimens or doing a field work. Manipulation of laboratory data and protocols are strictly prohibited and thus building ethics among students is a must.

Programme Specific Outcomes (PSO) B. Sc Botany

- ❖ Students will acquire a knowledge of classical and applied botany.
- ❖ Students will develop practical and analytical skills of botany and statistics.
- ❖ Students will learn to plan and execute different projects and field studies. These will make them efficient in agricultural field and management.
- ❖ Students will be prepared to acquire a range of general skills, to solve analytical problems, to evaluate information, to use computers productively, to communicate with society effectively and learn independently.
- ❖ Job opportunities in agro based industries, self-employment in nurseries, orchards of ornamental plants, bio fertilizer preparation, bio technological companies, horticulture etc. will be opened to our students.



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