

# UNDERGRADUATE PROGRAMME SPECIFIC OUTCOMES

## Name of the Programme: B.Sc. Botany

PS01	B.Sc Botany program will equip students with subject domain knowledge and technical skills pertaining to plants in a holistic manner.
PS02	Students will be able to understand the diversity in flora using different systems of classification studied during the program.
PS03	Students will be able to apply cutting-edge technologies such as tissue culture, genetic engineering, etc. in various fields.
PS04	Students will be able to apply knowledge of internal structure and functions of plant cell and its organelles.
PS05	Students will be well versed with morphology, anatomical features and life cycles of lower & higher cryptogams.
PS06	Students will be able to understand the essential metabolic pathways in plants, their significance and applications in industries, horticulture & agriculture.
PS07	Students will be well versed with morphology, anatomical features and life cycles of phanerogams.
PS08	The process of fossilization, types of fossils, their importance in phylogeny & classification will be clearly understood by students.
PS09	Students will have detailed knowledge of structure of biomolecules, their synthesis and applications in human welfare.
PS010	Physiology of flowering, role of phytohormones and their applications in horticulture & agriculture will be clearly understood.
PS011	Students will be aware of threats to biodiversity and measures to conserve by <i>in - situ</i> & <i>ex - situ</i> methods.
PS012	Students will be aware about the social and environmental issues, significance of plants and their relevance to national economy.
PS013	Detailed knowledge on seed technology will help students apply this in their own agricultural fields, acquire jobs or educate progressive farmers.
PS014	Plant pathological studies will enhance skills of disease identification in the field and application of control measures.
PS015	Studies in genetics & molecular biology will make students understand the pattern of inheritance to be applied during hybridization and also motivate them towards research.
PS016	Knowledge on economic importance of different plant groups will help students apply this in industries such as pharmaceuticals, biofertilizers,

	fermentation, enzyme production, production of antibiotics, SCP, etc.
<b>PSO17</b>	Skill enhancement courses will help students become self employable.
<b>PSO18</b>	Education on medicinal plants & ethnobotany will open avenues for research & entrepreneurship for students.