

BOTANY

programme specific outcome

To understand terminology, phenomena, concepts and classification of lower as well as higher plants and its introduction and awareness importance of the related biodiversity. Practical aspects and knowledge of cell division, genetics and growth of plants.

Course Outcome

B.Sc.I

To develop understanding regarding microbes, algae, fungi, bryophytes and gymnosperms including general characteristic, classification, morphology, anatomy and reproduction with economic importance.

B.Sc. II

Develop knowledge regarding diversity of angiosperms and their systematics with their detailed description Economic importance of angiosperms. Knowledge of cellular organization, origin, development of the shoot, root systems and leaf and flower and embryology.

B.Sc. III

Knowledge of plants water relation,(osmosis diffusion permeability) metabolism, growth regulators hormone, lights and temperature effect and fundamental of biotechnology. Knowledge regarding ecosystems, plant communities, factors. Cultivation and economic importance of cereals, pulses, vegetables, edible oils, spices, timber and fire wood and medicinal plants

Program Specific Outcome (PSO)

- After completion of B.Sc. Botany students may like job in different fields or go for higher studies.
- They may appear in competition exam for forest services through P.S.C. or I.F.S.
- They may get job in higher secondary school after completion of B.Ed. exam.
- They may take an opportunity to become scientist in several fields like environmental studies, plant taxonomy, plant pathology, cytology, genetics, and molecular biology.

Course specific outcome

Cs 1:- Develop knowledge regarding structure of algae, bryophyte, pteridophyte.

Cs 2:- Develop knowledge in the field of structure of all cell organelles and techniques in cell biology.

Cs 3:- Study related to taxonomy & diversity of plants including their anatomy & embryology of angiosperm.

Culture of microbes, study of bacteria, virus and fungi. Slide preparation and study of morphology of algae, study of morphological and anatomical structure of bryophytes and pteridophyte.

Skill development regarding describe different angiospermic plant families.

Cs4:- Development of knowledge of structure of chromosome. Skill development in respect of molecular cytogenetics, gene structure and expressions.

Cs5:- study of gymnosperms and their diversity including fossil gymnosperms.

Cs6:- Development of knowledge in respect of translocation of water and solutes, signal transduction, stress physiology and fundamentals of enzymology, metabolism in photosynthesis, respiration.

Cs7:- organization & development .protein sorting and mutation. and lipid metabolism nitrogen and sulphur metabolism.

Cs8:- Skill development in respect of experiment related to plant physiology & plant metabolism

Cs9:- Development of knowledge in development of root, shoot, leaf and flowering hormone and plant growth elicitors.

Cs10:- Development of knowledge in the field of plant reproduction.

Cs11:- Skill development in the field of Ecosystem organization, Ecosystem stability and management.

Cs12:- Skill development in respect of plant development plant and reproduction

Cs13:- Development of knowledge in plant resource, utilization and conservation.

Cs14:- Skill development and techniques related to plant tissue culture, cell culture and organ culture and study of plant resource and their conservation.