

Shri Shivaji Arts, Commerce and Science College, Motala, Dist. Buldhana

Program Outcomes & Course Outcomes

Department of Botany

B. Sc. Botany

Program outcomes

A science graduate with Botany is applicable to many types of carriers.

- Some plant biologists work also works outdoors in forest, hills or fields
- Some of the plant biologists works in museums or in industries
- Botany graduates go into biotechnology, environmental protection and in agriculture
- Botany graduates go into agriculture, environmental sciences and education

Course Outcomes

B. Sc. (Sem I- Sem VI)

Students will able to

- Understand plant diversity, study of algae, bryophytes, fungi, pteridophytes, mechanism of reproduction in plants and microbes responsible for plant diseases and economic losses
- Study gymnosperm classification, plant morphology such as study of roots, stem and leaves, Inflorescence, economic botany and the role of plants as a medicine, food, condiments etc
- Understand the basis for classification of plants; plant taxonomy; plant families; plant anatomy and embryological study of the plants
- Know basic cell biology, cellular contents, chromosomal study, mechanism of inheritance; effects due to chromosomal changes
- Understand the basic physiology of plants as how a plant can prepare its own food material; how it can respire; Nutrition mechanism, Role of hormones in growth and development of plants; flowering mechanism, plant movements, ecology and ecosystem
- Molecular mechanism of DNA Replication and protein synthesis. Genetic engineering of the cell in order to create the new hybrid ones; new aspects in biological science and plant tissue culture mechanism for the conservation of rare plants

- Get the knowledge of process of evolution
- Have the knowledge of vestige organs, homologous organs and analogous organs
- Have the knowledge of physiological process in chordates ie physiology of circulation, osmoregulation, muscle physiology, nerve physiology ,reproductive physiology and endocrinology
- Count WBCs, RBCs, Haemoglobin percentage , blood pressure in Human
- Practices micro technique , a very basic principle of research work
- Students understand blood groups and related diseases
- Students understood the different ecosystem i.e. water, forest, etc. and also got the knowledge of role played by different organisms in ecosystem