



Maharana Pratap Govt. Degree College Amb

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Department of Botany

Programme outcomes of Botany

Bachelors of Science is a three-year programme and in Botany students acquire knowledge about the biodiversity, structure, reproduction, functioning, economic and ecological importance, ethnobotany, basics of biotechnology and genetics of various groups of plants. Students are trained and encouraged for higher studies in the subject and various other competitive examinations

Programme Specific Outcomes

- ✓ Students will be able to know about the diversity among lower i.e. algae to higher plants (angiosperms). They learn detailed description of plants and through their life cycles.
- ✓ Students will be capable to understand classification, morphology, anatomy and physiology of various groups of plants.
- ✓ Students will be able to understand the contribution of botany for human welfare with special reference to uses of plants and their conservation strategies and sustainable development specially medicinal plants
- ✓ Students will be able to understand structure of population, communities and ecosystem.
- ✓ Students are motivated to apply their knowledge to enhance their thinking at molecular level
- ✓ Students will be able to learn experimental techniques and methods of investigation in various fields of basic and applied sciences, with special reference to biodiversity analysis, physiological methods and field studies etc.
- ✓ Students will be enhanced by various skills related to gardening and floriculture, biofertilizers, mushroom cultivation, and ethnobotany (with special emphasis on role of traditional medicine in modern era)

Course Outcomes

BSc 1st year

Sr. No.	Paper code	Paper name	Paper category	Outcomes
1.	BOTA 101	Biodiversity (Microbes, Algae, Fungi and Archegoniates)	DSC-IA	Students will have enormous knowledge about morphology anatomy and life cycles of each and every plant group and their potential uses. They will learn economic as well as ecological importance of all members.
2.	BOTA 102	Plant Ecology and Taxonomy	DSC-1B	This paper focused on the identification and classification of plants, student will learn formation of taxonomic keys, besides this they will learn various ecological aspects such as community, succession and ecosystem etc.

BSc 2nd year

Sr. No.	Paper code	Paper name	Paper category	Outcomes
1.	BOTA 201	Plant Anatomy and Embryology	DSC-1A	Students will study the detailed internal and external structures of various plant parts. It also includes the detailed study of reproductive development of plants
2.	BOTA 202	Plant Physiology and Metabolism	DSC-1B	This paper aware the students about the physiological processes of plants. Students will also learn about growth and developmental patterns and various plant hormones
3.	BOTA 203	Biofertilizers	SEC	This inculcates students with the knowledge of microbes and their use as a biofertilizers for various crop plants, besides this it also gives knowledge about advantages of biofertilizers over chemical fertilizers.
4.	BOTA 204	Gardening and Floriculture	SEC	This SEC gives basic training to the students with the concepts of gardening and landscaping operations along with identification, propagation, cultivation, pest management and harvesting of ornamental plants, certainly this course will enrich students with aesthetic values.

BSc 3rd year

Sr. No.	Paper code	Paper name	Paper category	Outcomes
1.	BOTA 301	Economic Botany and Biotechnology	DSE	This paper familiarizes students with the various cultivation practices of plants used by humans for food, fibre, beverages, oils, sugars, spices and medicine. Furthermore it emphasize on the modern techniques and biotechnology applications of plant sciences
2.	BOTA 303	Cell and Molecular Biology	DSC	This DSC updates students with basic knowledge of the structural and functional properties of cell and its components at structural and molecular level. They will learn difference between prokaryotic and eukaryotic organisms up to the molecular level i.e. replication, transcription, translation and gene regulation.
3.	BOTA 306	Medicinal Botany and Ethnobotany	SEC	These SEC aware students about indigenous system of medicine, besides this they will also learn the history, concepts and uses of plants especially the plants used by tribal, their conservation, they will also learn about the Intellectual Property rights and Traditional Knowledge.
4.	BOTA 307	Mushroom Cultivation Technology	SEC	Students are accustomed with history, nutrition & nutraceuticals and cultivation practices of edible mushrooms. They will also learn about the various poisons mushrooms and their identifications also. To make it more interesting they will also learn various food preparations from mushrooms.



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