

Post Graduate Department of Botany

About the Department

Since the inception of the Department in the year 1960, it has made tremendous stride in imparting qualitative teaching and initiating eminence research in Dev Samaj College for Women, Ferozpur. The Department owes its uniqueness due to the focus on fundamental research and teaching in plants and our study of populations, communities and ecosystem of which they are key component. Our faculty conducts basic and applied research on various specialized issues. Within the department, we offer courses leading to the B.Sc., M.Sc. and various inter-disciplinary programs. At present, the Department has a galaxy of well-qualified and experienced faculty members. The Post Graduate Department of Botany was conferred with the status of 'Star-Science department' of the college by UGC for the year 2013-14. Department of Biotechnology under MHRD, Government of India, conferred star status department (2019-22). The Department regularly organizes workshops, seminars with the enthusiastic participation of the faculty /scientists/experts of national and international repute. These activities keep the students aware not only about the current developments and frontiers of research in the subject discipline but also encourage them to keep their knowledge updated in the field.

Courses offered

- M.Sc. in Botany
- B.Sc. Medical with Botany as a subject

Highlights of the Department

- Highly Qualified, Meritorious and Experienced faculty.
- Independent staff room with Internet facility, ICT-based teaching with smart-classrooms equipped with an LCD projector.
- Well-equipped laboratories with highly advanced instruments (Seed Germinator, BOD, Spectrophotometer, Gel Electrophoresis Unit, Autoclave, Centrifuge, Binocular Microscopes, UV illuminator and Laminar Flow Chamber).

- Faculty and students regularly participate in various online courses like (MOOC, NPTEL, SAWAYAM, etc.) to boost up their knowledge.
- Well-maintained and updated Museum and Herbarium.
- Botanical garden with a wide variety of plants including medicinal plants, spices and condiments and hydrophytes and xerophytes etc..
- Vermi - composting Unit.
- Biogas plant as a part of sustainable development.
- Emphasis on practical knowledge and field work along with theoretical knowledge.
- Encouraging group projects to improve the inter-personal skills.
- International/National Conferences, Seminars and Workshops.
- Guest/special Lectures by the eminent scholars to add to the awareness of the students and faculty of the department.
- Periodic Tests, Assignments, MST's to evaluate the performance of the students.
- Extensive use of the library and other learning resources.
- Specialized training programs for the faculty improvement for optimizing technical capabilities.
- The Departmental library is well-equipped with references books, research journals and magazines.
- Post Graduate department of Botany brings its in house journal on regular basis.
- Remarkable University results in the undergraduate and postgraduate classes.
- Emphasis is laid on value-added teaching of the subject as well as moral values to the students.
- Workshops, Exhibitions and Conferences are organized frequently for knowledge enrichment.

Faculty Profile

S. No	Name	Educational Qualification	Designation	Teaching Experience	Specialization
1.	Dr. Manish Kumar	M.Sc., Ph.D.	Assistant Professor	9 years	Stress Physiology

2.	Dr. Geetanjali	M.Sc., Ph.D.	Assistant Professor	6 years	Mycology and Plant pathology
3.	Dr. Maninder Kaur	M.Sc., Ph.D.	Assistant Professor	3 years	Mycology and Plant pathology
4.	Ms. Shaina Gulai	M.Sc.	Assistant Professor	1 year	Reproductive Biology of Angiosperms
5.	Ms. Dolphy Dhawan	M.Sc.	Assistant Professor	6 months	Taxonomy of Angiosperms

Publication Work

Publications:	
Research Papers (Peer Reviewed journals)	76
Papers presented in National/International Conferences	80
Books published with ISBN	4
In-House Journals	01
National journal Publication	30

National Seminar/Webinar organized - 34

Research Areas and Field of Specialization:

- Stress Physiology
- Mycology and Plant Pathology
- Ethnobotany
- Taxonomy and Grass Systematics
- Biodiversity and Phytolith analysis

Research Projects

Dr. Manish Kumar (Assistant Professor) applied for UGC Major Research Project vide MRP ID: MRP-MAJOR-BOTA-2014-63978 entitled 'Role of 24-Epibrassinolide in Regulating Antioxidant Defense System of *Brassicajunca* L. under Fluoride Stress,' worth of Rs.19 Lakhs.

Project in collaboration with Forest Department, Ferozepur: Department completed a project on Species diversity and Carbon assessment of the Bare ke forest as a part of MoU signed with the forest department.

Outstanding Alumnae

- Ramanpreet Kaur working as food service supervisor in Canada
- Navjot Kaur Sidhu, Environmental Lab Technician, Sheridan College, Davis Campus, Brampton, Canada
- Kirandeep Kaur, Office Administration Health Services, St. Lawrence College, Kingston, Ontario Canada
- Navneet Kaur, Lab Technician, Canada
- Navpreet Kaur, M.Sc. Biotechnology, Canada
- Manwinder Kaur, Project Management, Canada
- Mandeep Kaur, M.Sc. Environment Science, Breton University, Nova Scotia, Sydney, Canada
- Kiranjot Deol, M.Sc. Biotechnology, Australia
- Ruchika, M.D. Pediatrics New York (USA)
- Gagandeep Kaur, Lecturer at LPU
- Anju, Rural Medical Officer
- Renuka, JR, RML Hospital, New Delhi
- Navjot, MO Primary, Health Centre, Moga
- Harleen, R.M.D.
- Sheenam, PO, State Bank of Patiala
- Neha Malhotra, AIMA College
- Prabhleen Kaur ,Assistant professor,R.S.D. College,Ferozepur
- Aishwarya Yadav,Environmental technician,Sheridan College, Davis Campus,Brampton,Ontario, Canada.
- Tamanna Kataria,Environmental technician,Sheridan College, Davis Campus,Brampton, Ontario, Canada.
- Hardeep KAUR, Assistant professor,R.S.D. College,Ferozepur
- Manjinder Kaur, Environment Studies, Canada.
- Shaina, Assistant professor, Assistant Professor, Dev samaj college for Women Ferozpur
- Dolphy, Assistant professor, Assistant Professor, Dev samaj college for Women Ferozpur.
- Sapna, PGT in Government School
- Roshni Kamboj PGT in Government School
- Harpreet Sharma PGT in Private School
- Radhika PGT in Private School
- Neeru PGT in Private School
- Manpreet , working in Post office
- Amanpreet, working in Post office
- Prabhjot, Cooperative bank

Future Prospects of Botanical Sciences

Botanical sciences offers a promising career to the students. Booming plant and agriculture sector in India has plenty of jobs for fresh science graduates in medical stream. With the world becoming more and more eco friendly in its approach the scope for botanical and environmental sciences is on the rise. .

Undoubtedly, today, a student with a degree, whether Master's or Bachelor's in the field of Plant Science, can get a job easily. There are bright career prospects for plant science graduates in teaching and research scenario

Job Opportunities for the students after completion of course in Botany: Students are eligible for a variety of job profiles in academic, industrial or research sectors. Some of these include:

- 1) Academicians at school, college or university level
- 2) Research Scientist
- 3) Forest officer and Forest Ranger
- 4) Ethnobotanist
- 5) Ecologist and Environmentalist
- 6) Herbalist and pharmacognist
- 7) Plant pathologist
- 8) Plant taxonomist
- 9) Horticulturist
- 10) Microbiologist and Biochemist.