PANJAB UNIVERSITY

DEPARTMENT OF BOTANY
CHANDIGARH - 160 014

Honours School Courses at Panjab University:-

- Admission through Entrance Test PU-CET(U.G.)
- Running courses under Honours School System for the last 100 years, since their inception in 1918-1919
- Courses taught by highly talented and inventive Faculty in Various departments.
- The Honours School System consists of B.Sc. (Honours)-3 year (Semester System-Choice Based Credit System). After completing B.Sc. (Honours), the student is promoted to M.Sc. degree (2 year) Choice Based Credit System in the same subject.
- Provision for exit after successful completion of B.Sc. (Honours) course.
- Choice Based Credit System(CBCS) of UGC with 156 credits in B.Sc. (Honours) and 80 credits in M.Sc.
- Courses, Ability Enhancement Courses(AEC) Skill Enhancement Courses(SEC) & UGC-approved Massive Open Online Courses.
- Lateral admission in M.Sc. after completing B.Sc. from other institutes. Lateral admission in B.Sc. (Honours) 2nd year for limited vacant seats.

Future Prospects:- Research Scientist in National Institutes, Pursuing Ph.D. degree in India/Abroad, Teaching in University/ College/ Schools, Civil, Defence and Allied Services, Jobs in R&D Labs./ Industry, Entrepreneur, Computer/IT Industry.

Eligibility for Admission:-

- 10+2 examination with atleast 50% marks with Physics, Chemistry, Biology and English from recognised Board/ CBSE/
- PU-CET (U.G.) Entrance Test.
- **Seats:-** 20+3 NRI+1Foreign National
- **Duration:-** 3 years

Merit list Preparation Criteria:-

- 25% of 10+2 Examination
- 75% of PU-CET (U.G.) Entrance Test

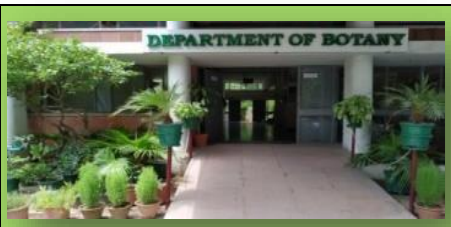
SCHOLARSHIPS:- Various scholarships at University level such as Post Metric Scholarship Scheme of Government of Punjab and Government of India are awarded.

BENEFITS OF THE COURSE AND PLACEMENTS:-

Students of Botany learn from various basic and applied concepts of plant sciences which have vast scope in different organizations:

- National and International Institutions
- Teaching (School, College or University)
- Administrative Services prominently Indian Forest Service at State and National level.
- Botanical Survey of India
- Central and State Government Service in Department of Environment, Forest and Agriculture Sector.

Forest Research Institute Positions in Ministry of Environment, Forest and Climate Change.



ABOUT THE DEPARTMENT

The Department of Botany, Panjab University was originally established in 1919 at Lahore and later shifted to India. The department has grown into a well-recognized Centre for higher learning and research in structural, functional and evolutionary aspects of Plants. In fact, this is the only Botany Department in the country, which has the necessary expertise to attend to all plant groups.

FACULTY AND MAJOR RESEARCH AREAS

- The department has 15 faculty members (9 Professors, 1 Associate Professor and 5 Assistant Professors)
- Major research areas of the department include Plant Physiology, Ecology, Molecular Biology, Cyto-genetics and Plant Breeding, Orchids, Medicinal Plants, Bamboos, Bryophytes, Fungi and Algae.

INFRASTRUCTURE

- Well equipped classrooms with multimedia facilities and laboratories (including research labs).
- Internationally recognized (PAN) Herbarium and a Museum with rich collection of Bryophytes, Ferns, Gymnosperms and Angiosperms which also provides exchangeable loan facility of specimens.
- Fungal Herbarium is an added attraction of the department.
- Departmental library has more than 6,444 books and over 21 regular scientific journals.
- A Central Instrumentation Lab with state-of-the art facilities has modern & sophisticated Instruments.

The Department also has the "P.N. Mehra Botanical Gardens" covering over 16 acres of land. Special attractions in the garden are the Arboretum, water pools, Cactus-House, Orchid-House and Fern-House.

Contact us:-
chairman.botany@pu.ac.in;
For more info visit:
https://botany.puchd.ac.in

B.Sc. (Honours) Botany

BOT-C1: Phycology & Microbiology
BOT-C2: Biomolecules & Cell Biology
BOT-C3: Mycology & Phytopathology
BOT-C4: Archegoniates
BOT-C5: Plant Anatomy
BOT-C6: Economic Botany
BOT-C7: Basics of Genetics
BOT-C8: Molecular Biology
BOT-C9: Plant Ecology & Phytogeography
BOT-C10: Plant Systematics
SEC1: Biofertilizers
SEC2: Medicinal Botany
BOT-C11: Reproductive Biology of Angiosperms
BOT-C12: Plant Biotechnology
BOT-C13: Plant Metabolism
BOT-C14: Plant Physiology
DSE-1: Plant Breeding
DSE-2: Research Methodology
DSE-3: Bioinformatics
DSE-4: Natural Resource Management
Bot-Core-1001: Plant Physiology
Bot-Core-1002: Principles of Ecology
Bot-Core-1003: Bryology
Bot-Core-1004: Pteridology
Bot-Core-1005: Plant Resource Utilization and Conservation
Bot-Core-2001: Phycology
Bot-Core-2002: Plant Biotechnology
Bot-Core-2003: Mycology and Plant Pathology
Bot-Core-2004: Genomics
Bot-Core-2005: Cytogenetics and Plant Breeding

M.Sc. (Honours) Botany

Bot-Core-3001: Plant Biochemistry
Bot-Core-3002: Cell & Molecular Biology
Bot-Core-3003: Angiosperms : Phylogeny, Embryology and Taxonomy
Bot-Elective-3004: *In vitro* Technologies and Industrial Applications
Bot-Elective-3005: Urban Environment
Bot-Elective-3006: Agroecology & Sustainable Agriculture
Bot-Elective-3007: Plant Morphogenesis
Bot-Core-4001: Gymnosperms
Bot-Core-4002: Environment Botany
Bot-Elective-4003: Advances in Ecology
Bot-Elective-4004: Advances in Plant Biochemistry
Bot-Elective-4005: Advances in Molecular Biology
Bot-Elective-4006: Microbial Technology
Bot-Elective-4007: Recombinant Proteomics
Bot-Elective-4008: Advanced topics in Plant Physiology