

ABOUT POST GRADUATE DEPARTMENT OF ZOOLOGY

Zoology is home to a blossoming community of researchers who share a fascination in how whole organisms develop, function, behave, interact and evolve. Initially the Department of Zoology was a constituent entity of the Faculty of Science, PUNJAB UNIVERSITY, Lahore; since its inception well before independence. Now it is prominent department of this very Institute and affiliated with Panjab University, Chandigarh. Department have a wide range of scientific collaboration in India and abroad in diverse field of biomedical sciences. An initial teaching effort in the department was tailored to train students leading them to a B.Sc. degree and subsequently Masters and Ph.D program. It is conferred by “STAR SCIENCE DEPARTMENT” by UGC, New Delhi. ICMR, UGC, PU., College Branch PU., and other renowned funding agencies always showed their interest in the department to promote science and research on the INDO-PAK border region. The Department has an outstanding High Definition Seminar Hall, Vertebrate lab, Invertebrate lab, Research Lab containing five functional unit of Biostatistical Analysis Unit, Computer attached High Definition Microscope, Cold Centrifuge, Ultralow Temperature Deep Freezer, Thermal Cycler of Applied Biosystem, UV/VIS Spectrophotometer. PCR Machine, Museum of Zoology etc., is used for teaching and research.

Department is enriched with Ph.D and NET qualified faculty having research specialization with Entomology, Fisheries, Molecular Biology and Cytogenetics, Physiology, Stress & Reproductive Physiology. Head the department is one of the pioneers in northern part of India who is working on the current Issues and Dilemma of Bioethics.

○ Courses Offered

- Ph.D. (Faculty of Science, Panjab University, Chandigarh)
- M.Sc in Zoology
- B.Sc. Medical with Zoology as a subject

Highlights of the Department

- Awarded with the status of Star Science Department by UGC in 2019
- New practical's (beyond curriculum) relevant to theoretical studies
- Scientific Collaboration with the high repute laboratories or Institutes
- Paper presentation and Journal Club.
- Short workshop cum hands on training for students on different fields of Biological Science.
- Provide scientific platform to present oral and poster presentation in various scientific institution
- Organize lab visit and lecture/seminar/conference on current issues of biological science (funded by various agencies)
- Arrange summer training for students in different university.
- Most of the faculties are actively involved in research and their new findings on the frontier of human knowledge have been published and brought out in reputed National and International Journal.
- To conduct specialized training programs for faculty improvement for optimizing technical capabilities
- Department has facility to enable students to visualise the various dissections demonstrated to them on projector.

- Involvement of visiting faculty (details of lecture & practicals to be covered in each department)
- Highly qualified, experienced, committed and dedicated faculty
- Arrangement of university visits to provide the students with the practical knowledge.
- Emphasis on practical knowledge and field work along with theoretical knowledge
- Smart classrooms for the purpose of making teaching and learning more effective
- Top positions in university exams
- 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
- Enrichment program for the students of science.
- Community outreach activities to develop a feeling of social responsibility among students
- Specialized training programs for the faculty improvement for optimizing technical capabilities.
- Guest/special Lectures by the eminent scholars that help both the students and faculties to keep pace with the advanced developments in their respective subjects.

○ Faculty Profile

Teaching Faculty	Designation	Qualification	Teaching Experience	Specialization
Dr. Mokshi	(Head & Asstt. Prof.)	M.Sc., ARS-NET, Ph. D.	Animal Physiology	6 Years
Dr. Ramneek Kaur	(Asstt. Prof.)	M.Sc. (Hons. School), NET, GATE, Ph.D. (Gold Medallist, DST Inspire Fellow)	Molecular Biology and Cytogenetics	5 Years
Ms. Madhavi Kangotra	(Asstt. Prof.)	M.Sc., B.Ed	Entomology	4.5 year
Ms. Shilpi	(Asstt. Prof.)	M.Sc.	Human Physiology	2 year
Ms. Akashdeep	(Asstt. Prof.)	M.Sc., B.Ed	Developmental Biology	1 year

○ Publication Work

Research Papers in various journals of national and International repute (SCI/Scopus Indexed and UGC approved Journals)	34
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Papers Presented in National Conferences/Seminars	45
Seminar Abstract Books with ISBN	02
Books/ Practical Manuals Publications	22

- **National Seminar/Conferences/workshops organized : 47**
- **International webinar: 03**

➤ **Curriculum**

➤ **Bachelor of Science (B.Sc medical)**

- **Course Duration:** Three Years (Six semesters) Eligibility 10+2 with qualifying biology at Metric Level
- <https://puchd.ac.in/syllabus.php?qstrfacid=11>

Master of Zoology (M.Sc. Zoology)

- **Course Duration:** Two Years (Four semesters) Eligibility B.Sc. Medical with 50% Marks.
- <https://puchd.ac.in/includes/syllabus/2021/20210910153841-m.sc.twoyearcoursezoology2021-22.pdf?202203134804>
- Ph.D. (Faculty of Science, Panjab University, Chandigarh)

○ **Outstanding Alumnae**

- Dr. Ruchika, M.D. Pediatrics New York (USA)
- Dr. Nidhi Sood, OSF Hospital Peoria (illinoise), USA
- Gagandeep Kaur, Lecturer at LPU
- Dr. Anju, Rural, Medical Officer, Punjab
- Gagandeep Kaur, Assistant Professor, HMV College Jalandhar
- Dr. Renuka JR, RML Hospital, New Delhi
- Dr. Navjot, MO Primary Health Centre, Moga
- Dr. Harleen, R.M.D.
- Sheenam, PO, State Bank of Patiala
- Neha Malhotra, AIMA College
- Ms. Shiana, Assistant Professor, RSD College Ferozepur
- Aishwarya Yadav, Environmental technician, Sheridan College, Davis Campus, Brampton, Ontario, Canada.

- Tamanna Kataria, Environmental technician, Sheridan College, Davis Campus, Brampton, Ontario, Canada.
- Ms. Shilpi , Assistant Professor, DSCW College Ferozepur.
- Ms. Akashdeep Kaur , Assistant Professor ,DSCW College Ferozepur.
- Ms. Shaina, Assistant Professor ,DSCW College Ferozepur.
- Ms. Aanchal ,Govt.School Teacher,Ferozepur.
- Ms. Khushbu ,School Teacher,Vivekananda World School,Ferozepur.
- Ms. Sonia ,School Teacher, School,Ferozepur.
- Ms. Paramjot,School Teacher,,Ferozepur.
- Ms.Shivangi,School Teacher,Vivekananda World School,Ferozepur.
- Ms.Kulwinder Kaur,School Teacher ,Ferozepur.
- Ms.Preeti ,School Teacher ,Ferozepur.

Future Prospects of Zoology

Zoology is one of the most popular branches in Science that involves the study of animals and their biological processes. Zoology courses are offered at the graduate and postgraduate levels both full-time and part-time. Candidates can also opt for Ph.D. in Zoology after completing their post-graduation. Candidates in this discipline are basically taught regarding animal anatomy, physiology, biochemistry, genetics, evolution, ecology, behavior, and conservation.

There are numerous career opportunities for candidates completing their BSc, MSc, and Ph.D. in Zoology in the public and private sectors. Candidates find jobs as Animal Behaviourist, Conservationist, Wildlife Biologist, Zoo Curator, Wildlife Educator, Zoology faculty, Forensic experts, lab technicians, Veterinarians.