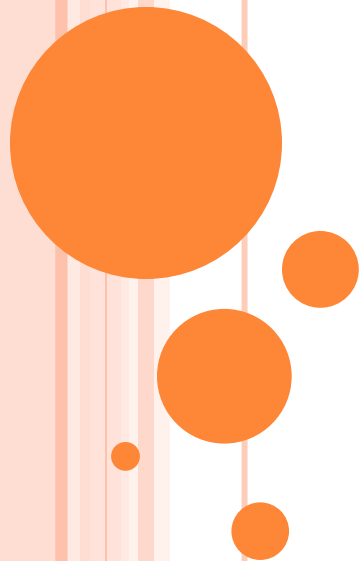


CAREER/JOBS PROSPECTS OF LEARNING ZOOLOGY

**ZOOLOGY DEPARTMENT
GOVT. RAJINDRA COLLEGE, BATHINDA**



THERE ARE NUMEROUS CAREER OPPORTUNITIES FOR CANDIDATES COMPLETING THEIR B.SC., M.SC., AND PH.D. IN ZOOLOGY IN PUBLIC AND PRIVATE SECTORS.

CANDIDATES FIND JOBS AS:

1 ANIMAL BEHAVIOURIST

2 CONSERVATIONIST

3 WILD LIFE BIOLOGIST

4 ZOO CURATOR

5 WILD LIFE EDUCATOR

6 ZOOLOGY FACULTY

7 FORENSIC EXPERTS

8 LAB TECHNICIANS

9 VETERINARIANS



❑ **MSc Courses after BSc Zoology**

❑ Broadly, courses after BSc Zoology can be categorised into master's programs or graduate diploma or certificate courses. Moreover, higher-level studies predominantly involve topics of cross-disciplinary nature such as Biochemistry, Bioinformatics and Biotechnology, amongst others. Individuals interested in exploring research opportunities can also apply for PhD or M.Phil positions under Zoology professors at various research universities and academic institutions.

❑ **Here are the most popular MSc courses after BSc Zoology:**

❑ MSc Zoology

❑ **MSc Biotechnology**

❑ **MSc Botany**

❑ MSc Bioinformatics

❑ **MSc Microbiology**

❑ MSc Bioinformatics

❑ MSc Medical Technology

❑ MSc Biomedical Technology/ **MSc Biomedical Engineering**

❑ MSc Medical Biotechnology

❑ MSc Medical Physiology

❑ **MSc Biochemistry**

❑ MSc Bioorganic chemistry

❑ MSc Molecular biology

❑ MSc Health care sciences



- ❑ An **MSc Zoology** is considered amongst the most sought-after courses after BSc Zoology. It is a two-year program which delves into much greater detail than a bachelor's degree and spans across several topics such as General Zoology, **Marine Biology**, Cell Biology, Animal Behaviour, Biomedical Science, Immunology, Genetics, amongst others.
- ❑ **MSc Biotechnology**
- ❑ A relatively modern fusion of Technology and Biology, Biotechnology witnessed a rapid rise in enrollments in the last few decades owing to the rewarding career options it offers. Typically undertaken as a field of research, you can discover a rewarding **career in Biotechnology** by working with several multinational organisations that focus on research and development in the areas of Agriculture, Environmental Biotechnology, Plant Biotechnology etc.
- ❑ **MSc Bioinformatics**
- ❑ An advanced-level blend of Information Technology and Biology, **MSc Bioinformatics** aims to study and analyse molecular processes through computer technologies. It helps in the creation of databases of molecular movements which is widely used in fields of Healthcare, Disease Prevention, detection of new diseases etc. Topics of specialisations in Bioinformatics include Protein Modelling, Chemoinformatics, Evolutionary Biology, Genome Mapping amongst others.
- ❑ **MSc Microbiology**
- ❑ Considered amongst the leading courses after BSc Zoology and one of the major **branches of biology**, an MSc Microbiology is a highly-specialised course which studies molecular organisms (bacteria, fungi etc) on a microscopic level. **Microbiology courses** offer a wide range of career opportunities in the medical and technological industry.



❑ **MSc Botany**

- ❑ An **MSc Botany** is a two-year course that helps in developing a better and deeper understanding of the subject of Biology. The course has a practical and a theoretical structure to it. Students are given classes in the laboratory to understand plant life better. The course aims to cover both elective and core subjects such as Microbiology, Phycology, Plant Anatomy, Molecular Biology, etc. Pursuing the course of MSc Botany also helps students get a specialisation in subjects such as Bryology, Agronomy, Cytology, Forestry, and many more.

❑ **MSc Molecular Biology**

- ❑ An **MSc in Molecular Biology** is a two-year course of specialisation and comes under the branch of post-graduation. Pursuing this course helps in giving the students a deeper and closer insight into the different branches and facets of biology, biotechnology and medicine. One of the subjects that students get to study in this course is **stem cell therapy**, the formation of the DNA, genome editing techniques, proteins and the many mechanisms of RNA. The course is spread over four semesters and ends with a dissertation project.

❑ **MSc Bioorganic Chemistry**

- ❑ This interesting course is meant for those students who are interested in the wider study of chemical compounds which are biologically active. It is built on the tenets of **undergraduate courses** of chemistry and biology. Some of the important subjects which are a part of MSc Bioorganic chemistry include medicinal chemistry, radical chemistry, forensic chemistry, structural analysis and analytical techniques.

❑ **MSc Health care Sciences**

- ❑ MSc in Health care Sciences is a post-graduate degree which aims to focus on the different aspects of health care. From theoretical to clinical to research and management- students are given a deep insight into the facets of health care. Students who pursue this degree can be seen in the field of health care directly, a clinical research setting or even as a health care provider.

❑ **MSc Medical Physiology**

- ❑ The course of MSc Medical Physiology is a post-graduate course in physiology. The course is spread over a span of four semesters. This course gives students a deeper insight into how scientific method can be applied to the functioning of cell, organ, organ system, organism carry out their physical or chemical functions. The course ends with the submission of a dissertation thesis.



❑ **Government Jobs after BSc Zoology**

❑ BSc Zoology graduates can explore a plethora of jobs in the government sector especially in research, forestry, environmental management, amongst others. Listed below are the top government jobs after BSc Zoology:

- ❑ Research Officer
- ❑ Forest Officer
- ❑ Project Manager
- ❑ Laboratory Assistant
- ❑ Associate Professor
- ❑ Entomologist
- ❑ Information Officer
- ❑ Technical Officer
- ❑ Medical Officer



- Indian Forest Services
- **Indian Council of Agricultural Research (ICAR)**
- Here are the top government organisations and departments where you can find government jobs after BSc Zoology:
- Ministry of Environment Forest and Climate Change
- National Dairy Research Institute (NDRI)
- Zoological Survey of India
- Wildlife Organisations
- Institute of Advanced Study in Science & Technology (IASST)
- State Biodiversity Boards
- Forest Departments
- **Research Institutes in India**



- ❑ Many government jobs in Zoology also require candidates to clear certain entrance exams. The most common entrance exam after BSc Zoology is **IFoS Exam** which is conducted by UPSC for Indian Forest Services recruitments.
- ❑ **DMLT Course after BSc Zoology**
- ❑ Diploma in Medical Lab Technology or **DMLT course** is another popular course after BSc Zoology. The eligibility for this course is 10+2 and the duration of DMLT program is 2 years and can be pursued either after 12th or after completing BSc Zoology. Here are the top colleges to pursue DMLT course in India:
 - ❑ Aligarh Muslim University
 - ❑ NIMS University
 - ❑ St. John's Medical College
 - ❑ Bangalore Medical College and Research Institute
 - ❑ Jawaharlal Nehru Medical College
 - ❑ PDM University



▣ **Graduate Diploma/Certificate Courses after BSc Zoology**

- ▣ Apart from the traditional master's degree, many students prefer to go for a **graduate diploma**/certificate program which provides industry-focused knowledge of Biological Sciences. Common graduate diploma specialisations include Wildlife Forensic Sciences, Veterinary Science, Primatology and Conservation, Animal Welfare Ethics and Law, **Environmental Management** along with subjects such as **Photography**, Zookeeping, Journalism, etc.



❑ **Jobs After BSc Zoology**

❑ With a rising growth of enterprises in this field, there are several avenues you can explore after successful completion of courses after BSc Zoology. Skills that are highly valued by employers are strong **communication skills**, high level of creativity, research and analysis, software proficiency wherever required, amongst others. Here are the most lucrative and high-paying jobs after BSc Zoology:

- ❑ Environmental Consultant
- ❑ Research Scientist
- ❑ Marine Biologist
- ❑ Lecturer/Professor
- ❑ Conservation Officer
- ❑ Animal Behaviorist
- ❑ Zoo Officer
- ❑ Ecologist
- ❑ **Toxicologist**
- ❑ Animal Nutritionist



THANK YOU

