

Kurukshetra University, Kurukshetra
(Established by the State Legislature Act-XII of 1956)
("A++" Grade, NAAC Accredited)



**Scheme of Examination
for
Post Graduate Programme
M.Sc. ZOOLOGY**

as per NEP 2020
Curriculum and Credit Framework for Postgraduate Programme


With Multiple Entry-Exit, Internship and CBCS-LOCF
With effect from the session 2024-25 (in phased manner)

DEPARTMENT OF ZOOLOGY
FACULTY OF LIFE SCIENCES

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119

HARYANA, INDIA

ZOO-1


29/5/2024
Chairperson
Deptt. of Zoology
K.U. Kurukshetra

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KURUKSHETRA UNIVERSITY, KURUKSHETRA

**Scheme of Examination for Postgraduate Programme Zoology
as per NEP 2020 Curriculum and Credit Framework for Postgraduate Programmes
(CBCS LOCF) with effect from the session 2024-25 (in phased manner)**

Framework-2

Scheme-P

| Semester | Course Type | Course Code | Nomenclature of Course | Theory (T)/ Practical (P) | Credits | | Contact hours per week L: Lecture P: Practical S: Seminar | | | | Internal Assessment Marks | End Term Examination Marks | Total Marks | Examination hours |
|----------|-------------|-------------|---|---------------------------|---------|-------|--|---|---|-------|---------------------------|----------------------------|-------------|-------------------|
| | | | | | | Total | L | S | P | Total | | | | |
| 1 | CC-1 | M24-ZOO-101 | Cell Biology | T | 4 | 26 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-2 | M24-ZOO-102 | Biochemistry and Bio-techniques | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-3 | M24-ZOO-103 | Biosystematics and Biostatistics | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-4 | M24-ZOO-104 | Biology of Invertebrates | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | PC-1 | M24-ZOO-105 | Practical based on Papers M24-ZOO-101 & M24-ZOO-102 | P | 4 | | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |
| | PC-2 | M24-ZOO-106 | Practical based on Papers M24-ZOO-103 & M24-ZOO-104 | P | 4 | | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |
| | SEMINAR | M24-ZOO-107 | Seminar | S | 2 | | 0 | 2 | 0 | 2 | 0 | 50 | 50 | 1 |
| 2 | CC-5 | M24-ZOO-201 | Population and Community Ecology | T | 4 | 26 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-6 | M24-ZOO-202 | Comparative Physiology | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-7 | M24-ZOO-203 | Population Genetics & Evolution | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-8 | M24-ZOO-204 | Biology of Vertebrates | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | PC-3 | M24-ZOO-205 | Practical based on Papers M24-ZOO-201 & M24-ZOO-202 | P | 4 | | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |


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| PC-4 | M24-ZOO-206 | Practical based on Papers M24-ZOO-203 & M24-ZOO-204 | P | 4 | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |
| CHM | M24-CHM-201 | Constitutional, Human and Moral values, and IPR | T | 2 | 2 | 0 | 0 | 2 | 15 | 35 | 50 | 3 |
| Internship | M24-INT-200 | AN INTERNSHIP COURSE OF 4 CREDITS OF 4-6 WEEKS DURATION DURING SUMMER VACATION AFTER IIND SEMESTER IS TO BE COMPLETED BY EVERY STUDENT. INTERNSHIP CAN BE EITHER FOR ENHANCING THE EMPLOYABILITY OR FOR DEVELOPING THE RESEARCH APTITUDE. | | | | | | | 50 | 50 | 100 | - |
| CC-9 | M24-ZOO-301 | Molecular Biology | T | 4 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| CC-10 | M24-ZOO-302 | Molecular Endocrinology | T | 4 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| DEC-1 | M24-ZOO-303 | Applied Zoology | T | 4 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | OR A MOOC Course from Swayam Portal of Equal Credits | | | | - | - | - | - | - | - | - | - |
| DEC-2 Any one from M24-ZOO-304/305/306 | M24-ZOO-304 | Molecular Reproduction-I | T | 4 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | M24-ZOO-305 | Animal Behaviour & Wildlife Conservation-I | T | 4 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | M24-ZOO-306 | Fish, Fisheries and Aquaculture-I | T | 4 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| PC-5 | M24-ZOO-307 | Practical based on Papers M24-ZOO-301 to M24-ZOO-303 | P | 4 | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |
| PC-6 | M24-ZOO-308 | Practical based on Papers M24-ZOO-304/ 305 /M24-ZOO-305/ 306 | P | 4 | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |
| OEC | FOR ZOOLOGY STUDENTS | | | | Course to be opted from the Pool of OEC course other than the ones offered by Zoology Department | | | | | | | |
| OEC (To be offered to the students of other departments) | M24-OEC-352 | Animal Diversity & Conservation | T | 2 | 2 | 0 | 0 | 2 | 15 | 35 | 50 | 3 |

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| 4 | CC-11 | M24-ZOO-401 | Developmental Biology | T | 4 | 26 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-12 | M24-ZOO-402 | Vertebrate Immunology | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | DEC-3 | M24-ZOO-403 | Environmental Toxicology | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | | OR A MOOC Course from Swayam Portal of Equal Credits | | | | | | | | | | | | |
| | DEC-4 Any one from M24-ZOO-404/405/406 | M24-ZOO-404 | Molecular Reproduction-II | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | | M24-ZOO-405 | Animal Behaviour & Wildlife Conservation-II | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | | M24-ZOO-406 | Fish, Fisheries and Aquaculture-II | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | PC-7 | M24-ZOO-407 | Practical based on Papers M24-ZOO-401 to M24-ZOO-403 | P | 4 | | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 |
| PC-8 | M24-ZOO-408 | Practical based on Papers M24-ZOO-404/ M24-ZOO-405 / M24-ZOO-406 | P | 4 | 0 | 0 | 8 | 8 | 30 | 70 | 100 | 4 | | |
| EEC | M24-ZOO-409 | Entrepreneurship Approaches in Zoology | T | 2 | 2 | 0 | 0 | 2 | 15 | 35 | 50 | 3 | | |
| OR DISSERTATION | | | | | | | | | | | | | | |
| (NOTE: IF A CANDIDATE IS OFFERED DISSERTATION COURSE, THEN HE/SHE WILL ALSO STUDY CC-11, DEC-3, DEC-4 & EEC FROM ABOVE COURSES OF SEMESTER 4) | | | | | | | | | | | | | | |
| 4 | Dissertation / Project work | M24-ZOO-410 | Dissertation/Project Work | D | 12 | 26 | 0 | 0 | 0 | - | 0 | 300 | 300 | - |
| TOTAL CREDITS | | | | | | 108 | TOTAL MARKS | | | | | | 2700 | |





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Programme Learning Outcomes (PLOs) for M.Sc. Zoology as per NEP-2020

| PLOs | Master Degree in Zoology |
|--|--|
| After the completion of Master degree in Zoology the student will be able to: | |
| PLO-1: Knowledge and Understanding | Demonstrate the fundamental and advanced knowledge of the subject and understanding of recent developments and issues, including methods and techniques, related to the Zoology . |
| PLO-2: General Skills | Acquire the general skills required for performing and accomplishing the tasks as expected to be done by a skilled professional in the fields of Zoology . |
| PLO-3: Technical/ Professional Skills | Demonstrate the learning of advanced cognitive technical/professional skills required for completing the specialized tasks related to the profession and for conducting and analyzing the relevant research tasks in different domains of the Zoology . |
| PLO-4: Communication Skills | Effectively communicate the attained skills of the Zoology in well-structured and productive manner to the society at large. |
| PLO-5: Application of Knowledge and Skills | Apply the acquired knowledge and skills to the problems in the subject area, and to identify and analyze the issues where the attained knowledge and skills can be applied by carrying out research investigations to formulate evidence-based solutions to complex and unpredictable problems associated with the field of Zoology or otherwise. |
| PLO-6: Critical thinking and Research Aptitude | Attain the capability of critical thinking in intra/inter-disciplinary areas of the Zoology enabling to formulate, synthesize, and articulate issues for designing of research proposals, testing hypotheses, and drawing inferences based on the analysis. |
| PLO-7: Constitutional, Humanistic, Moral Values and Ethics | Know constitutional, humanistic, moral and ethical values, and intellectual property rights to become a scholar/professional with ingrained values in expanding knowledge for the society, and to avoid unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism. |
| PLO-8: Capabilities/qualities and mindset | To exercise personal responsibility for the outputs of own work as well as of group/team and for managing complex and challenging work(s) that requires new/strategic approaches. |
| PLO-9: Employability and job-ready skills | Attain the knowledge and skills required for increasing employment potential, adapting to the future work and responding to the rapidly changing demands of the employers/industry/society with time. |


 29/11/2024
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