



Yashwantrao Chavan Maharashtra Open University
Dnyangangotri near Gangapur Dam, Nashik, Pin Code-422222, Maharashtra(India)

Programme Structure Scheme

For

**Post Graduate,
2 Year(s) Master Degree Program in**

School of Sciences

Master of Science in Zoology(V155 - M.Sc. in Zoology)
(Credits System)

(2023 Pattern - NEP-Open and Distance Learning)
Programme Code: V155

Publisher's Note

This Yashwantrao Chavan Maharashtra Open University has great Pleasure in publishing this programme structure for Post Graduate programme for 2 Year(s) Master Degree Program as "Master of Science in Zoology" (2023 Pattern - NEP - Open and Distance Learning) under the School of "School of Sciences".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

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Yashwantrao Chavan Maharashtra Open
University, Dnyangangotri near Gangapur Dam,
Nashik, Pin Code-422222, Maharashtra(India)

Registrar

Programme Objective(s)

1. Programme Objective

This programme has the following broad objectives:

- Inculcate critical thinking and analytical skills to enable students to pursue higher studies and research in Life Sciences or related fields of Zoology.
- Provide a strong foundation for a better understanding of current advances in Zoology and its practical significance.
- Expose students to current trends in research about Zoology
- Develop human resources useful in the field of Zoology

Programme Outcome

After successful completion of this programme, students will be able to

- Develop deeper understanding of key concepts of Zoology at biochemical, molecular, cellular, physiological, histological and systematic level.
- Impart knowledge and skills through applied disciplines.
- Integrate and explore biological data. Use current laboratory setup, instrumentation, statistical and biological techniques in the collection, organization, analysis, interpretation and manipulating the data related to Zoology discipline and allied branches
- Develop a strong foundation for professional growth and lifelong learning in Zoology.

The Master of Science in Zoology Consists of following 2 programme part(s):

Sr.No.	Programme Part Name	Programme Part Abbreviation	Examination Pattern
1	Year-1	Year-1	Semester
2	Year-2	Year-2	Semester

The Master of Science in Zoology is available in following medium of instruction/s:

1. English

Programme Part: Year-1 Separate Passing Head: No, Min: 0, Max: 1100, Total Credits: 44.00

Term: Semester I Separate Passing Head: No, Min Courses: 6, Max Courses: 6, Min:0,Max:550, Total Credits: 22.00

The courses for Year-1 - Semester I are classified into following groups:

1.Major Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)

Select minimum 1 course(s)

Select maximum 1 course(s)

Courses:

ZOO506 Developmental Biology

ZOO507 Entomology

2.Major Mandatory (Min Courses: 4, Max Courses: 4,
Separate Passing Head: No, Max. Marks: 350)

Select minimum 4 course(s)

Select maximum 4 course(s)

Courses:

ZOO501 Biochemistry

ZOO502 Cell Biology

ZOO503 Applied Zoology Part-I

ZOO504 Lab on Biochemistry, Cell Biology & Applied Zoology Part-I

3.Research Methodology (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)

Select minimum 1 course(s)

Select maximum 1 course(s)

Courses:

RES505 Research Methodology

Term: Semester II Separate Passing Head: No, Min Courses: 6, Max Courses: 6, Min:0,Max:550, Total Credits: 22.00

The courses for Year-1 - Semester II are classified into following groups:

1.Major Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)

Select minimum 1 course(s)

Select maximum 1 course(s)

Courses:

ZOO515 Animal Biotechnology

ZOO516 Toxicology

2.Major Mandatory (Min Courses: 4, Max Courses: 4,
Separate Passing Head: No, Max. Marks: 350)

Select minimum 4 course(s)

Select maximum 4 course(s)

Courses:

ZOO509 Molecular Biology

ZOO510 Genetics

ZOO511 Applied Zoology Part-II

ZOO512 Lab on Molecular Biology, Genetics & Applied Zoology Part-II

3.OJT & FP Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)

Select minimum 1 course(s)

Select maximum 1 course(s)

Courses:

ZOO513 On Job Training

ZOO514 Field Project

Programme Part: Year-2 Separate Passing Head: No, Min: 0, Max: 1100, Total Credits: 44.00

Term: Semester III Separate Passing Head: No, Min Courses: 6, Max Courses: 6, Min:0,Max:550, Total Credits: 22.00

The courses for Year-2 - Semester III are classified into following groups:

<p>1.Major Elective (Min Courses: 1, Max Courses: 1, Separate Passing Head: No, Max. Marks: 100) Select minimum 1 course(s) Select maximum 1 course(s) Courses:</p> <table><tr><td>ZOO606</td><td>Reproductive Physiology</td></tr><tr><td>ZOO607</td><td>Vermiculture</td></tr><tr><td>ZOO608</td><td>Animal Behavior</td></tr></table>	ZOO606	Reproductive Physiology	ZOO607	Vermiculture	ZOO608	Animal Behavior		
ZOO606	Reproductive Physiology							
ZOO607	Vermiculture							
ZOO608	Animal Behavior							
<p>2.Major Mandatory (Min Courses: 4, Max Courses: 4, Separate Passing Head: No, Max. Marks: 350) Select minimum 4 course(s) Select maximum 4 course(s) Courses:</p> <table><tr><td>ZOO601</td><td>Immunology</td></tr><tr><td>ZOO602</td><td>Endocrinology</td></tr><tr><td>ZOO603</td><td>Biodiversity & Conservation</td></tr><tr><td>ZOO604</td><td>Lab on Immunology, Endocrinology and Biodiversity & Conservation</td></tr></table>	ZOO601	Immunology	ZOO602	Endocrinology	ZOO603	Biodiversity & Conservation	ZOO604	Lab on Immunology, Endocrinology and Biodiversity & Conservation
ZOO601	Immunology							
ZOO602	Endocrinology							
ZOO603	Biodiversity & Conservation							
ZOO604	Lab on Immunology, Endocrinology and Biodiversity & Conservation							
<p>3.Research Project (Min Courses: 1, Max Courses: 1, Separate Passing Head: No, Max. Marks: 100) Select minimum 1 course(s) Select maximum 1 course(s) Courses:</p> <table><tr><td>ZOO605</td><td>Research Project</td></tr></table>	ZOO605	Research Project						
ZOO605	Research Project							

Term: Semester IV Separate Passing Head: No, Min Courses: 5, Max Courses: 5, Min:0,Max:550, Total Credits: 22.00

The courses for Year-2 - Semester IV are classified into following groups:

<p>1.Major Elective (Min Courses: 1, Max Courses: 1, Separate Passing Head: No, Max. Marks: 100) Select minimum 1 course(s) Select maximum 1 course(s) Courses:</p> <table><tr><td>ZOO613</td><td>Comparative Animal Physiology</td></tr><tr><td>ZOO614</td><td>Aquaculture</td></tr><tr><td>ZOO615</td><td>Parasitology</td></tr></table>	ZOO613	Comparative Animal Physiology	ZOO614	Aquaculture	ZOO615	Parasitology
ZOO613	Comparative Animal Physiology					
ZOO614	Aquaculture					
ZOO615	Parasitology					
<p>2.Major Mandatory (Min Courses: 3, Max Courses: 3, Separate Passing Head: No, Max. Marks: 300) Select minimum 3 course(s) Select maximum 3 course(s) Courses:</p> <table><tr><td>ZOO609</td><td>Animal Physiology</td></tr><tr><td>ZOO610</td><td>Ichthyology</td></tr><tr><td>ZOO611</td><td>Lab on Animal Physiology & Ichthyology</td></tr></table>	ZOO609	Animal Physiology	ZOO610	Ichthyology	ZOO611	Lab on Animal Physiology & Ichthyology
ZOO609	Animal Physiology					
ZOO610	Ichthyology					
ZOO611	Lab on Animal Physiology & Ichthyology					
<p>3.Reserch Project (Min Courses: 1, Max Courses: 1, Separate Passing Head: No, Max. Marks: 150) Select minimum 1 course(s) Select maximum 1 course(s) Courses:</p> <table><tr><td>ZOO612</td><td>Research Project</td></tr></table>	ZOO612	Research Project				
ZOO612	Research Project					