DEGREE OF MASTER OF PHILOSOPHY
CHOICE BASED CREDIT SYSTEM

SYLLABUS FOR
M.PHIL. ZOOLOGY
(SEMESTER PATTERN)
(For Candidates admitted in the Colleges affiliated to Periyar University from 2017-2018 onwards)
REGULATIONS

OBJECTIVES
To provide course of study to postgraduates in Sericulture with a view to strengthen their foundations for undertaking M.Phil work in theoretical and Applied Sericulture.

ELIGIBILITY FOR ADMISSIONS
Good academic record with first or second class Masters Degree in Zoology of Periyar University or in examination recognized there equivalent to.

DURATION
The duration of the M.Phil course will be one year.

COURSE STRUCTURE
Course Structure for M.Phil., (Zoology) Under CBCS
(For the candidates admitted from the year 2017-2018 onwards)

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Course</th>
<th>Subject Title</th>
<th>Exam Hrs</th>
<th>Credits</th>
<th>University Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Internal (25%)</td>
</tr>
<tr>
<td>1.</td>
<td>Paper I</td>
<td>Research Methodology</td>
<td>3</td>
<td>4</td>
<td>25</td>
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<tr>
<td>2.</td>
<td>Paper II</td>
<td>Recent Advances in Zoology</td>
<td>3</td>
<td>4</td>
<td>25</td>
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<tr>
<td>3.</td>
<td>Paper III</td>
<td>Optional subject (Guide Paper)</td>
<td>3</td>
<td>4</td>
<td>25</td>
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<tr>
<td>4.</td>
<td>Paper IV</td>
<td>*Dissertation Evaluation</td>
<td>8</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Viva - voce</td>
<td>4</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>TOTAL</td>
<td>24</td>
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*For 200 Marks
EXAMINATIONS:

Question Paper Pattern for M.Phil Zoology Course.

Time: 3Hrs Max.75

Part A – (5 x 5 = 25 Marks)
Answer ALL question choosing either 'a' or 'b'

Part B – (5 x 10 = 50 Marks)
Answer ALL question choosing either 'a' or 'b'

University conducts the examination for Paper – I and Paper – II at the end of First Semester.

♦ Supervisor will provide syllabus and two sets of Question Paper for Paper – III to the University. The controller of examinations will conduct the examination for Paper – III at the end of First Semester.

♦ Passing minimum in each Paper is 50%

Theory Papers:
Total mark for each Paper is 100. 25 marks for Internal and 75 marks for University Examination. The Internal Assessments may be in the form of Combination of Periodical tests and Assignments for Theory Papers. The Components are:

1. Attendance = 05 Marks
2. Assignment/Seminar = 10 Marks
3. Test = 10 Marks
Total = 25 Marks

Dissertation:
The Marks for the Dissertation is 200 and the Components are:

Evaluation:
1. Evaluation of Project report by External Examiner : 100 Marks
2. Evaluation of Project report by Internal Examiner : 50 Marks
♦ Viva – Voce conducted by Supervisor and External Examiner in the Department : 50 Marks
Total : 200 Marks

♦ Dissertation should be valued by the Supervisor and the External Examiner.
♦ Viva – voce should be conducted by the Supervisor and the External Examiner
UNIT I Principles and Application


UNIT II Separation and Analytical Techniques


UNIT III Histological and Histochemical Methods


UNIT IV Data Processing and Analysis

Measures of Central Tendency – Standard Deviation, Correlation, Regression, Student 't' test, Chi - Square test, ANOVA. Software Application – Word, Excel, Powerpoint, Statistical software – SPSS.

UNIT V Research Methods and Thesis Writing

M.Phil. ZOOLOGY

REFERENCE BOOKS:

M.PHIL. ZOOLOGY
PART - I
PAPER II - RECENT ADVANCES IN ZOOLOGY

UNIT I Molecular Biology

UNIT II Immunology

UNIT III Environmental Pollution

UNIT IV Microbial Genetics

UNIT V Biotechnology
M.Phil. ZOOLOGY

REFERENCE BOOKS: