

**DEPARTMENT OF ANIMAL SCIENCE
SCHOOL OF LIFE SCIENCES
BHARATHIDASAN UNIVERSITY,
TIRUCHIRAPPALLI - 620 024**

**M.Phil., Zoology (Program Code: 1ASZOO)
Course Structure (CBCS)
Academic year 2017-2018 onwards**

General Program Objective:

M.Phil Zoology is a one year research oriented program, the courses are designed to provide solid foundation in analytical and laboratory skills. This program is suited to those who wish to pursue doctoral study.

Program Specific Objectives:

- Understand the central facts and the experimental basis of modern Zoology.
- Logically solve the scientific problem in the context of biological process
- Described the principles, mechanism and applications of basic and modern equipments in can be used in research laboratory.
- Learn and apply the ethics in animal usage and Biotechnology.
- Enhance the ability of writing research project activities, problem-solving and communications.

Program Outcome:

- Learn the central concepts of biology in the context of zoology and their probabilistic foundation.
- Understand the molecular principles of classical and modern biology.
- Understand the physiological function and underling molecular mechanism
- Understood the molecular techniques applied in animal and human health research
- Understood the information and application of genome project.
- Demonstrate the originality in the application of learned information, together with a practical understanding
- Shown abilities in the critical thinking, evaluation of hypothesis and outcome in the current research topic
- Demonstrate self-direction learning, tackling and solving problems, and planning and implementation of research.

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DEPARTMENT OF ANIMAL SCIENCE

M.Phil., Zoology (Program Code: 1ASZOO)

Syllabus (Academic year 2017-2018 onwards)

Course Structure (CBCS Pattern)

Course Type	Course Code	Title of the Course	Credits	Exam. Hrs.	Marks		
					CIA	ESE	Total
SEMESTER I							
Core I	17ZOOC11	Research Methodology	4	3	25	75	100
Core II	17ZOOC12	Recent Trends in Zoology	4	3	25	75	100
Core III (Optional Paper)	17MZOO13	Animal Behaviour	4	3	25	75	100
	17MZOO13	Aquaculture Biotechnology	4	3	25	75	100
	17MZOO13	Molecular Biology of Reproduction	4	3	25	75	100
	17MZOO13	Infertility Management	4	3	25	75	100
	17MZOO13	Cancer Biology	4	3	25	75	100
	17MZOO13	Pheromone Technology	4	3	25	75	100
Core IV	17MZOO14	Teaching and Learning Skills	4	3	25	75	100
SEMESTER II							
Core V	17MZOO21	Project Work	8	-	50	150	200
Total			24	-	150	450	600