



# Jamal Mohamed College (Autonomous) Trichy

## Department of Zoology

### B.Sc. Zoology

#### Students will be able to

- ✚ Describe the basic concepts of animal science, biology of invertebrates and chordates, cell biology, molecular biology, and physiological features of animals.
- ✚ Correlate the complex interactions among the organisms in the environment, the microbes, animals and plants, explicates their relationship with the environment and enhance their employability by entrepreneurial skills and competitive exams.
- ✚ Perform laboratory experiments using observational and computational techniques appropriately for the specialized area in biology, safely and ethically.
- ✚ Apply the ideas and concepts of Zoology in various fields such as agriculture, medicine, apiculture, aquaculture for balancing ecosystems and sustainability of the environment.
- ✚ Integrate information on various sources, formulate arguments, claims the results scientifically and communicate the scientific information as research reports.



# Jamal Mohamed College (Autonomous) Trichy

## M.Sc. Zoology

### Students will be able to

- ✚ Explain recent advances in developmental Biology, genetics, cell and molecular biology, microbiology and applied entomology.
- ✚ Adopt eco-friendly techniques to address biodiversity and conservation of the environment thereby solving real time problems with ethical consideration.
- ✚ Apply the theories and interdisciplinary approaches to access literature on the identified problem, formulate hypothesis and employ statistical techniques and present the results as scientific description in oral and written form.
- ✚ Examine the use of fundamental zoological sciences in other related disciplines such as Biophysics, Nanotechnology, Bioinstrumentation, Bioinformatics and Farm management to structure growing, population, pollution and other environmental issues.
- ✚ Develop scientific personality, a pursuit for continuous learning and capture employability as independent worker or as enriched researchers and teachers.

## M.Phil Zoology

### Students will be able to

- ✚ Express the advances in Biological research, latest equipments, technical tools used in zoological experiments and handling of animals as model organisms.
- ✚ Identify, analyze and propose newer solutions to problems in the biological systems based on the legislation of animal research and ethics.
- ✚ Adopt teaching and learning skills in the classroom for efficient teaching and in their own life for professional development and to excel in academics.
- ✚ Extend the knowledge of zoological sciences for career advancement on entrepreneurship, scientific undertaking or qualify competitive exams.
- ✚ Transcribe the scientific information, execute the findings orally in professional settings and grow as socially responsible citizens.