Vidyasagar University

Midnapore-721102, West Bengal

POs & PSOs for the Post-Graduate Programme in ZOOLOGY

National Educational Policy – 2020

[w.e.f. 2025-26]

Department of Zoology_2025-26

Program Outcomes (POs)

On successful completion of the M.Sc. in Zoology program, the students will develop the following skills: -

PO1: Comprehensive Knowledge: Demonstrate a deep understanding of animal structure, function, diversity, evolution, genetics, molecular biology, and physiology.

PO2: Practical Competence: Apply laboratory and field techniques to investigate animal biology, analyze data, and interpret scientific observations.

PO3: Research and Inquiry: Design, conduct, and report scientific research in zoology, integrating modern methodologies and ethical practices.

PO4: Critical and Analytical Thinking: Analyze complex biological data, discuss contemporary issues in biodiversity, and solve zoological problems scientifically.

PO5: Technological Application: Utilize bioinformatics, biostatistics, remote sensing, and microscopy as tools for animal research and management.

PO6: Communication and Teamwork: Present scientific ideas and research findings effectively; collaborate in academic, research, and professional settings.

PO7: Ethics and Responsible Practice: Demonstrate ethical responsibility towards animals and promote sustainable practices in animal biology and conservation.

PO8: Interdisciplinary Skills: Integrate zoological knowledge with related fields such as biotechnology, botany, physiology, environmental science, and public health.

PO9: Career Readiness and Entrepreneurship: Prepare for teaching, research, conservation, and industry roles, and pursue professional development through entrepreneurship.

Programme Specific Outcomes (PSOs)

After the successful completion of the M.Sc. in Zoology program, the students are expected to:

PSO1: Improve their biological knowledge: Gain an in-depth understanding of animal diversity, physiology, ecology, genetics, and evolution.

PSO2: Gain research & technical skills: Apply modern laboratory, field, and analytical techniques for studying animals and ecological systems.

PSO3: Apply critical thinking: Analyze biological data and address conservation and wildlife management issues.

PSO4: Expertise in technological applications: Use tools like Microscopy, instrumentation, GIS, remote sensing, and bioinformatics in animal research.

PSO5: Follow ethical and sustainability principles: Practice ethical and sustainable approaches in zoology and conservation.

PSO3: Communication & Professionalism: Effectively present scientific findings and work collaboratively in academic and research settings.