



Name of the Program	M.Sc. Zoology
Name of the Program Co-ordinator	Ms. Ambily K. Chandran
Expected Achievement Level for PO, PSO & CO	3

Analysis of CO Attainment

<i>Course No</i>	<i>Course Code</i>	<i>Course Name</i>	<i>Course Attainment Value</i>
Course 1	ZL010101	Animal Diversity: Phylogenetic and Taxonomic	2.8
Course 2	ZL010102	Evolutionary Biology and Ethology	2.8
Course 3	ZL010103	Biochemistry	2.8
Course 4	ZL010104	Biostatistics and Research Methodology	2.6
Course 5	ZL010105	PRACTICAL 1	3
Course 6	ZL010201	Field Ecology	2.83
Course 7	ZL010202	Developmental Biology	2.4
Course 8	ZL010203	Genetics and Bioinformatics	2.6
Course 9	ZL010204	Microbiology and Biotechnology	2.67
Course 10	ZL010205	PRACTICAL 2	2.4
Course 11	ZL010301	Animal Physiology	2.6
Course 12	ZL010302	Cell and Molecular Biology	2.6
Course 13	ZL010303	Biophysics, Instrumentation and Biological Techniques	2.6
Course 14	ZL010204	Immunology	2.5
Course 15	ZL010305	PRACTICAL 3	2.5
Course 16	ZL810401	1 Environmental Science: Concepts and Approaches	2.75
Course 17	ZL810402	2 Environmental Pollution and Toxicology	2.67
Course 18	ZL810403	Environmental Management and Development	2.6
Course 19	ZL810404	PRACTICAL 4	2.8
Course 20	ZL010401	Project	2.8
Course 21	ZL010402	Course Viva	2.6
Course 22	ZL010102	Evolutionary Biology and Ethology	2.8



Recommendations:

- The learning outcomes of the courses Developmental Biology, Immunology, and Molecular Physiological & Immunological methods and approaches in Biosciences has to be improved by interactive learning and regular feedback.
- Biostatistics and Research Methodology, Genetics and Bioinformatics, Microbiology and Biotechnology, Animal Physiology, Cell and Molecular Biology, Biophysics, Instrumentation and Biological Techniques, Immunology, Environmental Pollution & Toxicology, Environmental Management & Development are among the courses whose outcomes can be improved by regular assessments. This will give a clear understanding of what students have learned and what needs improvement.
- The performance in viva can be improved in general by conducting mock vivas, debates and seminars for students.

Analysis of PSO Attainment

<i>PSO No</i>	<i>PSO</i>	<i>PSO Attainment Value</i>
PSO1	Establish knowledge and skill in the fundamentals of animal sciences and understands the complex interactions among various living organisms. Interpret the ecological interconnectedness of life on earth by tracing energy and nutrient flows through the environment. They are able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.	2.67
PSO2	Judge the unity of life with the rich diversity of organisms and their ecological and evolutionary significance. Comparative biology explains how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They are able to use specific examples to explicate how descent with modification has shaped animal morphology, physiology, life history, and behaviour.	2.67
PSO3	Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation.	2.67
PSO4	Developing deeper understanding of key concepts of biology at biochemical, molecular and cellular level, physiology and reproduction at organism level, and ecological impact on animal behaviour. Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.	2.65



PSO5	Articulating environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.	2.68
PSO6	Evaluate about various concepts of genetics and its importance in human health	2.64
PSO7	Development of an understanding of zoological science for its application in medical entomology, apiculture, aquaculture, agriculture and modern medicine.	2.64

Recommendations:

- To improve the subject learning by providing more resources and engaging them in participative learning
- Subject oriented workshops, seminars and activities to be organized
- Regular feedbacks to be obtained based on student performance and subsequent guidance.

Analysis of PO Attainment

<i>PO No</i>	<i>PO's</i>	<i>PO Attainment Value</i>
PO1	Develop Critical thinking and drive for scientific exploration	2.66
PO2	Gain in-depth understanding of the principles and philosophies of the subject	2.66
PO3	Develop research aptitude	2.66
PO4	Acquire data interpretation and problem-solving skills	2.66
PO5	Acquire practical skills in the area of specialization	2.66
PO6	Effective communication. Principles and concepts	2.66
PO7	Enhance employability through application-oriented learning	2.66
PO8	Practice professional and publication ethics thereby improve ethical decision making ability	2.66
PO9	Create drive for leadership, innovation and entrepreneurship	2.66
PO10	Develop positive attitude towards environmental sustainability and inclusivity	2.66

Recommendations:

- More student centric and feed back oriented teaching learning methodology to be adopted



- Personalized guidance may be provided
- Internship and external project opportunities to be identified
- Seminars and workshops on subject area as well as those for developing interpersonal skills need to be conducted
- More activities to be organized by students and more opportunities to be provided for interaction with experts in the field of the subject, environment, entrepreneurship etc.

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