



U/S 2(f) and 12 B of UGC Act 1956, (NAAC Accredited)

DESH BHAGAT UNIVERSITY, MANDI GOBINDGARH

Faculty of Agriculture and Life Sciences

Programme: PhD Zoology

Programme Educational Objectives (PEOs)

PEO-1: Provides an expertise in the domain helpful for the higher education and research – with basic understanding of the subject, further education is made easier and skilful.

PEO-2: Provide opportunities to develop transferable skills; inculcate a culture of quality and responsibility in conducting research.

PEO-3: Enables the option to utilize the known knowledge for the human benefits and for society welfare – especially with the environmental sciences, anyone can understand socio-ecology.

PEO-4: Help increase the entrepreneurial skills with bioethics in place and kick-start the professionalism aiding the industrial needs.

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Programme Specific Outcomes (PSO)

PSO1: Improve the observational, computational, and analytical ethical skills required for the research and development fields discussed for evolving trends in Genetics, molecular biology, micro-biology, cell biology, etc..

PSO2: Demonstrate a fundamental understanding of the academic field of Zoology, its different learning areas and applications, and its link with related disciplinary areas/subjects; provides awareness on the divisions

PSO3: Students will be aware of the consequences of deviating from the standard code of conduct in research laboratories, plagiarism, and paraphrasing, ethical aspects and so on.

PSO4: Students will be able to access and extract the desired information from the different scientific databases and resources. Students will be able to read and write good scientific papers.

PSO5: The programme will motivate the students to take up the challenges of the Ph.D course and make them mentally prepare to excel in the respective field of their research work.

Programme Outcomes (POs)

PO-1: Access the primary literature, identify relevant works for a particular topic in life science, and evaluate the scientific content of these works.

PO-2: Explain the kinds of data generated by various workers in the field of Zoological research.

PO-3: Explain contemporary issues in Life sciences relevant to the area of specialization.

PO-4: Exercise critical judgment, independent thinking and problem solving through the research work undertaken.

PO-5: Demonstrate critical and creative thinking, with an aptitude for continued self- directed learning.

PO-6: Students will be able to summarize major themes and current research problems in their area of specialization (review).

PO-7: Possess an ability to identify, formulate, and solve biological problems to contribute to service efforts to the community.

PO-8: Apply multidisciplinary fundamentals of statistical tools, software and physical principles (physics, chemistry) to the analysis of relevant biological situations.

PO-9: Write scientific reports and communicate results in oral presentations.

PO-10: Publish the findings in scientific journal, conference proceedings and books.

PO-11: Write thesis in a standard scientific format using the current norms of scientific writings.

PO-12: Use various techniques for solving industrial and research problem.

Course Outcomes: (COs)

Course Code: M.Ph.D. 101

Title of the Course: Research Methodology

Course Outcomes:

CO1: Knowledge gained: Conceptual understanding of research ethics, plagiarism, laboratory practices and Intellectual property right

CO2: Skills gained: Ability to search the internet and scientific databases to accumulate information and latest advances in the field of concerned research topic.

CO3: Competency developed: Ability to write and review scientific articles as well as ability to follow good code of conduct for performing research work.

Course Code: MPhD 001

Title of the Course: Advances in Zoology

Course Outcomes:

CO1: Knowledge gained: Fundamental and advanced knowledge of the subject.

CO2: Skills gained: Thorough understanding of the background and recent developments of the subject and ability to understand the concept of any topic and to build up on the existing knowledge.

CO3: Competency developed: Ability to utilize the existing knowledge in their own research work and ability to link the core concepts of the subject to the field of their own research work.

Course Code: RPE

Title of the course: Research Publications and Ethics

Course outcomes:

CO1: Knowledge gained: In-depth knowledge of the subject chosen for research.

CO2: Skills gained: Review of existing work in the field of choice.

CO3: Competency developed: Research trends in the field of choice. Research trends in interdisciplinary areas.