Department of Zoology

Course Objective and Course Outcomes.

June 2025 (For AAA) (First Year)

Sr. No.	Name of the Paper	Course Objectives	Course Outcomes
1	DSC-1 Animal Diversity–l (Non chrodates)	 To understand the basic concept in Zoology To learn the general characters and classification of non chrodates. To understand the diversity and complexity of life from Protista to Echinodermata 	 Understand general organization of unicellular and multicelluar animals. Recognized diversity and adaptation and significance. acquired deep knowledge and importance of biodiversity conservation.
2	SEC – (Bee Keeping)	 To teach techniques of construction of Bee Hives and its maintenance. To teach students about Honey production and health related problems with honey bees. To teach students about honey production and health related problems with honey bees. Importance of honey. Students will learn important steps in bee keeping and bee hive handling without fear. Students will learn the use of different equipments in bee keeping. 	 The learner will be able to differentiate types of honey bee castes Learner will be able to use the artificial hive for beekeeping. Use the technique of honey purification and processing. To construct the artificial honey hive and maintain it. Learner If not employed can find own employment by doing Bee keeping. Can start own \beekeeping equipment agency for farmers and beekeepers.
3	DSC-3 Animal Diversity-II	 To understand the basic concepts of lower and higher vertebrate animals. To learn the classification characters and general organization of chordates To understand the diversity and complexity of life from protochordata to the class mammalia. 	 Understand general organization of vertebrate animals. Recognize diversity migration and adaptive radiation of vertebrate animals. Acquire deep knowledge and importance of biodiversity conservation. Develop the capacity to understand biological importance and their conservation methods.
4	VSC – 1 Aquarium Fish Keeping	 Understand the principles and scope of aquarium fish keeping. Learning about exotic and endemic fish species and their management. Learn about the preparation and composition of fish food. Gain practical experience in designing the fish aquarium. 	 Explore the potential of aquarium fish industry. Familiarize the fish breeding and fish food technology. Recognize the fish diseases for the management of fish keeping. Understand the transportation techniques for fish market.

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Course Objective and Course Outcomes.

June 2025 (For AAA) (Second year)

Sr.	Name of the Paper	Course Objectives	Course Outcomes
<u>No.</u> 1	ZOL-311 Developmental biology of vertebrates	 To provide a comprehensive understanding of the knowledge of the concept of early development of animals To develop a critical appreciation of methodologies those use to study the process of embryonic development in animals 	 Students should be able to know the basic concepts related to embryonic development and to understand the basis of the animals.
2	ZOL-312 Ecology	 Understand and appreciate interactions of organisms with environment and the ecosystem dynamic. Awareness of current environment issues and understanding of relation between structure and function of ecosystem. Knowledge of local and geographical distribution and abundance of organisms. Develop a n appreciation of scope of modern scientific inquiry in the field of ecology. Study structural and functional adaptation of organisms to their environment. Study conservation of natural resources and management of pollution. 	 Demonstrate knowledge of biotic and abiotic interactions. Express understanding of environment issues and inter relation between different components of an ecosystem Ability to elaborate about distribution and abundance of organisms. Apply different experimental techniques to study any ecosystem or it's components.
3	ZOL- 411- Biochemistry and Endocrinology	 To understand the structure and function of biomolecules in animals To understand and identify the structure and function of endocrine function. 	 Students will learn the fundamental of biochemical process and their applications and will understand the structure and function of endocrine system.
4	ZOL-412- Evolution	 To know the history and concept of evolution. To understand the mechanism and factors involving in evolution process. To acquire increased theoretical and practical knowledge of various processes of molecular genetics. To study the techniques for obtaining genetically modified organisms 	 Understand the theories and concepts of evolution. Learn the process of evolution in animals. Understand the patterns of evolutionary changes in animals. Understand the organization and functions of genetic material in the living World. Understand the Recombinant DNA technology

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Course Objective and Course Outcomes.

June 2025 (For AAA) (Third year)

Sr. No.	Name of the Paper	Course Objectives	Course Outcomes
1	ZOL-511 Animal Physiology	 To understanding the structure of the different organ systems in man/mammals To understand the mechanisms involved in the functioning of the different systems. To learn the structure and physiology of digestion respiration and circulation in animals. 	 Understand the nutrition and physiology of digestion in man Learn the structure and working of mammalian heart blood composition and clotting mechanism.
2	ZOL-512 Fishery Science – I	 To develop the scientific outlook and awareness in inland and marine fisheries and its great potential for fish production. To familiarize the students with finfish and shelfish fisheries. 	 Identify the marine brackish as well as freshwater fishes. Develop knowledge on inland and marine fisheries resources of india.
3	ZOL- 513- Vermicompost and Vermiculture	 To introduce the students about biology of some important spices of earth worms used in vermiculture. 	 Acquire a critical knowledge on role of earth worms in marking organic matter from biodegradable wastes. Understand the biology of some important used in vermiculture. Acquire skills on production of vermicompost. Explain benefits and problems with vermicultrure and vermicompost.
4	ZOL-611- Animal Physiology – II	 To understand the structure of the different organ and receptor systems in man/mammals To under5stand the mechanisms involved in the functioning of excretion nerve and muscles receptors and reproductive system. To learn the structure and physiological mechanism of excretion nerve muscles receptors and reproductive system, 	 Understand the structure and functional anatomy of kidney osmoregulation and homeostasis. Learn the process of gametogenesis hormones reproductive cycle and methods of contraception.
5	ZOL- Fishery Science - II	 To develop the scientific outlook and awareness on freshwater fish farming. To familiarize the students with fish hatcheries their operations and fish diseases. To aware students about impact of exotic fishes on Indian fish fauna. 	 Identify the freshwater fishes. Develop knowledge on freshwater fish farming and fish seed production techniques. Familiar with fish diseases and their control.
6.	ZOL- Aquarium Fish Keeping	 To learn details about skills in aquarium construction fish keeping and maintenance. 	 The studies learn details of aquarium fish keeping and maintenance