

K.S.N. Govt. Degree College for Women:: Ananthapuramu
Bachelor of Science
Course Outcomes of Zoology

Course Code: S1-321

Course Name: Biology of Non Chordates

Upon completion of this course, the student will be able to:	
CO 1	Get a concrete idea of the evolution, hierarchy and classification of invertebrate Phyla
CO 2	Getting an overview of typical examples in each invertebrate major phyla
CO 3	Demonstrate anatomical and physiological attributes of each animal group and why these have led to their success.
CO 4	Identify various larval stages and development in invertebrate groups
CO 5	State the outline of animal classification of non-chordates
CO 6	Categorize the diversity found in the invertebrate groups of animals like Arthropoda, Mollusca and Echinodermata.

Course Code: S1-321

Course Name: Biology of Chordates

Upon completion of this course, the student will be able to:	
CO 1	Explain general characteristics and classification of different classes of vertebrates
CO 2	Describe the morphology, habit and habitat. Systematic position and various systems in the chordate animals
CO 3	List the various vertebrate animals in a given class.
CO 4	Identify poisonous and non-poisonous snakes.
CO 5	Explain various adaptations in avian group as well as migration and flight in birds
CO 6	Categorize the diversity found in the vertebrate groups of animals like reptiles, birds and mammals.

Course Code: S1-321

Course Name: Cell Biology, Genetics and Evolution

Upon completion of this course, the student will be able to:	
CO 1	Differentiate between prokaryotes and eukaryotes
CO 2	Explain the structure and functions of the nucleus, different cell organelles.
CO 3	Explain Mendel's principle, its extension and chromosomal basis and determination of gene action from genotype to phenotype and concepts of inheritance
CO 4	Describe the chromosome anomalies and associated diseases
CO 5	Describe the concept of origin of life and theories of origin of life
CO 6	Explain the theories of organic evolution.

Course Code: S3 - 321

Course Name: Embryology Physiology and Ecology

Upon completion of this course, the student will be able to:	
CO 1	Describe the key events in early and systematic embryological development
CO 2	Explain the principles and process of fertilization and cleavage
CO 3	Imparts knowledge about various metabolic and physiological mechanisms of the human body.
CO 4	Understand the function of various systems
CO 5	Describe the nature of ecosystem, productivity, food webs, energy flow
CO 6	Understand animal interactions with the environment
CO 7	Compare animal distribution in different zoogeographical realms.

Course Code: S5 - 321

Course Name: Animal Biotechnology

Upon completion of this course, the student will be able to:	
CO 1	Aquire the knowledge of tools used in Recombinant DNA Technology
CO 2	Familiar with the techniques Biotechnology such as PCR, Hybridization, different gene delivery techniques
CO 3	Knowledge of animal cells in culture, growth of cell lines
CO 4	Imparts the Knowledge to culture animal cells in artificial media.
CO 5	Illustrate the applications of Biotechnology in various fields
CO 6	Use of Biotechnology in variety of industrial processes.

Course Code: S5 - 322

Course Name: Animal Husbandry

Upon completion of this course, the student will be able to:	
CO 1	Understand the principles of Poultry housing and feed management in different stages of Birds
CO 2	understand the role of nutrition in milk production and egg production
CO 3	Illustrate Different Breeds of Dairy animals and buffaloes
CO 4	Gain the knowledge of Care and management of Dairy animals
CO 5	understand how the application of modern animal production technologies and management practices impact their production

Course Code: S6 - 321

Course Name: Immunology

Upon completion of this course, the student will be able to:	
CO 1	Provides basics knowledge about immune system and allows the student to create insight as how to improve their immune system and good health.
CO 2	Interactions of antigens, antibodies, complements and other immune components
CO 3	Distinguish Innate immunity and Acquired Immunity
CO 4	Explain the concepts of immunity, hyper sensitivity, self-nonsel immune response, autoimmune diseases
CO 5	Explain the principle and application of the common techniques used in Immunology
CO 6	Understanding of immune mechanisms in disease control, vaccination, process of immune interactions

Course Code: S6 -322

Course Name: Principles of Aquaculture

Upon completion of this course, the student will be able to:	
CO 1	Course provides them comprehensive understanding about aquatic ecosystem and various economical important fishes.
CO 2	Enlist the diagnostic features of shrimps and fishes
CO 3	Gain the knowledge of Different types of Aquaculture systems and Culture Practices
CO 4	Explain the criteria for selection of site for construction and design of Aqua farms
CO 5	Describe the methods of freshwater prawn culture , Carp culture and its management
CO 6	Illustrate the various composite fish culture with significance of each type.
CO 7	Explain the methods of pearl culture and pearl harvesting

Course Code: S6 - 323

Course Name: Aquaculture Management

Upon completion of this course, the student will be able to:	
CO 1	Learn the basic principles involved in the culture and breeding of common edible fishes
CO 2	Explain the process of Hatchery Management
CO 3	Acquire the knowledge of Water quality parameters and soil characteristics suitable for shrimp and fish culture
CO 4	Understand the principles of disease diagnosis and health management
CO 5	Identify the fish diseases and the causative organisms.
CO 6	Explain the different types of Feed Strategies and feed Management
CO 7	Gain the knowledge of Economics and Marketing Principles of Aquaculture

Course Code: S6 - 324

Course Name: Post Harvest Technology

Upon completion of this course, the student will be able to:	
CO 1	Learn the Basic principles of preservation of fish
CO 2	Demonstrate the methods of packaging and transport of fish and shrimp
CO 3	Illustrate techniques of fish harvesting, preservation & processing
CO 4	Gain the knowledge of the fish products and Byproducts
CO 5	Compare the techniques used in fishery development.
CO 6	Understand the importance of Sanitation, Quality management in processing Plants