COURSE OUTCOME
DEPARTMENT OF ZOOLOGY

SL. NO.	PAPER TITLE	PAPER CODE	COURSE OBJECTIVES	COURSE OUTCOMES
1	**NON-CHORDATES-I: PROTISTA TO PSUDOCOELOMATES**	**CORE-I**	The course objective is to acquaint students with the general characters and classification of acoelomates to pseudocoelomates and the affinities between different groups.	Students will be able to- • learn about importance of systematic, taxonomy, structural organization of the animals • appreciate diversity of non-chordates • understand evolutionary history and relationships of different non-chordates through functional and structural affinities.
2	**PRINCIPLES OF ECOLOGY**	**CORE-II**	The course objective is to educate the students about the basic environmental phenomena like ecosystem, energy flow through the ecosystem and biogeochemical cycles.	Students will be able to • understand the processes that contributes to the distribution and abundance of organisms from the micro habitat to the globe • recognize the factors that are responsible for population dynamics.
3	**NON-CHORDATES-II: COELOMATES**	**CORE-III**	The course objective is to acquaint the students with the general characters and classification of coelomates and the affinities between different groups.	Students will be able to • learn through the origin of multicellular organisms from unicellular eukaryotes • learn how organisms are classified based on their complexity, organization and characters.
4	**CELL BIOLOGY**	**CORE-IV**	The course objective is to acquaint students with the structure and functions of cell.	Students will be able to • distinguish between pro and eukaryotic cell, • understand how energy is produced and utilized in cells • understand how the cells communicate.

5	**DIVERSITY OF CHORDATES**	**CORE-V**	The course objective is to make students aware of higher organisms and their taxonomy to correlate the evolutionary trend in organisms.	Students will be able to • understand evolutionary history and relationship between the different classes of chordates.
6	**PHYSIOLOGY: CONTROLLING AND CO-ORDINATING SYSTEMS**	**CORE-VI**	The course objective is to acquaint students with functioning of various systems of human body.	Students will be able to • explain the molecular and cellular basis of physiological functions in animals.
7	**FUNDAMENTALS OF BIOCHEMISTRY AND MICROBIOLOGY**	**CORE-VII**	The course will make students to know about the biochemical features in organisms and self.	Students will be able to • categorize the different biomolecules basing upon their structure and function, • learn about the monomeric units of those polymers.
8	**COMPARATIVE ANATOMY OF VERTEBRATES**	**CORE-VIII**	The course is designed to make students to know the anatomical features of various organisms and their evolutionary trend.	Students will be able to • understand comparative account of the different vertebrate systems.
9	**PHYSIOLOGY: LIFE SUSTAINING SYSTEMS**	**CORE-IX**	The course will make students to know the functioning of various organs and their inter-relationship.	Students will be able to • develop critical thinking skills, apply physiological concepts and principles at the basic and applied levels, • develop a working knowledge of the major physiological systems and associate anatomical areas with their specific function.
10	**BIOCHEMISTRY OF METABOLIC PROCESSES**	**CORE-X**	The course objective is to make students know about the various metabolic processes.	Students will be able to • describe different catabolic and anabolic processes • understand how ATP acts as the chemical link between the two.

11	**MOLECULAR BIOLOGY**	**CORE-XI**	The course objective is to make students know about internal mechanism of functioning of body parts at cellular level.	Students will be able to • explain how DNA is best suited as the genetic material and the structure and synthesis of DNA, RNA and protein.
12	**PRINCIPLES OF GENETICS**	**CORE-XII**	The course is so designed to have in-depth knowledge of heredity.	Students will be able to • gain a thorough and in-depth understanding of the chemical basis of heredity.
13	**ANIMAL BEHAVIOUR AND CHRONOBIOLOGY**	**DSE-I**	The course is designed to make students know about the behavioral aspect of organisms.	Students will be able to • understand types of animal behaviour and their importance to the organisms.
14	**IMMUNOLOGY**	**DSE-II**	The course objective is to make students know about immunological aspect of cell functioning.	Students will be able to • define central immunological principles and concepts, • compare the key mechanism and cellular players of innate and adaptive immunity and their inter-relationship, • explain the basis of immunological tolerance, autoimmunity and transplantation.
15	**DEVELOPMENTAL BIOLOGY**	**CORE-XIII**	The course is so designed for acquiring knowledge to know the process of reproduction and the development of embryo.	Students will be able to • demonstrate understanding of embryology and significance of prenatal diagnostic methods, • analyze variations at different stages of embryonic development • estimate the significance of various inducers on the developmental processes with respect to postnatal life.
16	**EVOLUTIONARY BIOLOGY**	**CORE-XIV**	The course is designed for better understanding of evolutionary trends in development of	Students will • gain knowledge about the relationship of the various species and the environment they live in.

			organisms with time.	
17	**WILDLIFE CONSERVATION AND MANAGEMENT**	**DSE-III**	The course objective is to make students know about their surroundings and the inter-relationship of man and animals.	Students will be able to • apply knowledge to solve problems related to wildlife conservation and management.
18	**ANIMAL DIVERSITY**	**GE-I**	The course objective is to make the students understand and classify great variety of living species which will help to understand how to conserve the diversity of life on earth.	• Students will be able to identify animals, classify them and will be able to describe their identifying features. • The students will understand the importance of classification of animals and classify them effectively using the different levels of classification.
19	**AQUATIC BIOLOGY**	**GE-II**	The course objective is to acquaint the students with aquatic biomes, fresh water biology, marine biology, and management of aquatic resources.	The students will be able to- • Understand and apply relevant scientific principles in the area of aquatic biology. • Demonstrate skill at identifying organisms found in marine and aquatic environments. • Understand the dynamics of aquatic ecosystems and their potential responses to changes

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