M.V.R. DEGREE COLLEGE
(UG And PG Courses)
(Affiliated to Andhra University)
An Institution of Priyadarshini Educational Academy)
NAAC ACCREDITED COLLEGE

Dr.V.Rama Rao, M.A.,Ph.D.,
Secretary & Correspondent

Dr.A.Balakrishna,M.Sc.,Ph.D.,
Principal

Department of Zoology
Bachelor of Science(B.Sc: CBZ)
Revised CBCS
W.E.F(2020-2021)

Course Outcomes Of Zoology

Course Code	Course Title	Course Outcomes
Course 1 (TH)	**ANIMAL DIVERSITY NON – CHORDATES**	CO1.Know about the general characters and classification up to orders from phylum protozoa to hemichordate. CO2. Gain knowledge about some of the important and common protozoans, helminthes, arthropods of parasitic in nature. CO3. Understand about the morphology of Earthworm and economic importance of vermin compost. C04. Understand about Pearl formation in pelecypoda ,Water vascular system in star fish. CO5. Identify the various invertebrate larval forms.
Course 1 (PR)	**ANIMAL DIVERSITY NON-CHORDATES**	CO1. To understand the importance of preservation of different non-chordate species. CO2. To identify the animals based on the special identifying characters. CO3. To understand the different organs system through demo or virtual dissections. CO4. To maintain a neat ,labelled record of the identified preserved species.
Course2 (TH)	**ANIMAL DIVERSITY - CHORDATES**	CO1.Know about distinct features and distribution of Chordates, Origin of Chordates. CO2. Know about general characters

		and classification ofProtochordates ,Cyclostomes ,Fishes ,Amphibia ,Reptilia,Aves and Mammals. CO3.Structure and life history ofHerdmaria (Retrogressive Metamorphosis). CO4. Gain knowledge about the types of scales in fishes, Migration of Fishes ,Flight adaptations in birds. CO5. Acquire knowledge on the Dentition in Mammals.
Course2 (PR)	**ANIMAL DIVERSITY –CHORDATES**	CO1.To understand the importance and other methods of preservation of chordates. CO2. To identify chordates species based on special identifying characters. CO3. To understand the internal anatomy of animals through demo or virtual dissections. CO4. To maintain neat,labelled record of identified preserved specimens.
Course3 (TH)	**CELL BIOLOGY ,GENETICS,MOLECULAR BIOLOGY & EVOLUTION PAPER - III**	CO1. To understand the basic unit of living organisms and to differentiate the organisms by their cell structure . CO2. Know about the structure and function of plasma membrane and different cell organelles. CO3. To understand the branch of heredity ,interaction of genes, sex determination. CO4. Acquiring knowledge on the central dogma of molecular biology & flow of genetics information from DNA to proteins. CO5. Know about the principles & forces of evolution of life on earth , process of evolution of new species.
Course3 (PR)	**CELL BIOLOGY,GENETICS,MOLECULAR**	CO1.Able to prepare temporary slides of mitosis.

	BIOLOGY& EVOLUTION PAPER- III	CO2. Able to solve genetics problems. CO3. To understand about the study of human karyotyping. CO4.Able to identify the fossil evidences ,Darwin finches.
Course4 (TH)	**ANIMAL PHYSIOLOGY ,CELLULAR METABOLISM& EMBRYOLOGY PAPER- IV**	CO1. Understand the functions and important animal physiological system including digestion ,cardio-respiratory and renal system. CO2. Understand the muscular system & the neuro -endocrine regulation of animal growth ,development & metabolism with a specific knowledge. CO3. To understand the chemicals of bio molecular & enzymes. CO4.Develop brood understanding the basic metabolism activities ,anabolism & catabolism of biomolecules CO5. Describe the key events in early embryonic development starting from the formation of gametes up to gastrulation and formation of foetal membranes..
Course4 (PR)	**ANIMAL PHYSIOLOGY,CELLULAR METABOLISM & EMBRYOLOGY PAPER- III**	CO1.Gain knowledge animal physiology by qualitative tests. CO2. Differential count of human blood. CO3. Gain knowledge on cellular metabolism. CO4. Acquire knowledge on slides observation on testes, ovary of mammal.
Course5 (TH)	**IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY PAPER- V**	CO1. To get knowledge of the organs of immune system ,types of immunity ,cells and organs of immunity CO2. To describe immunological response as how its triggered and

		regulated antibodies. CO3To understand the applications of biotechnology in the fields of industry and agriculture including animal cell/tissues. CO4.Know about the culture ,stem cell technology & genetic engineering, CO5. Get familiar with the tools & techniques of animal biotechnology.
Course5 (PR)	**IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY PAPER- V**	CO1. Acquire skills on demonstration of lymphoid organs & observing histological slides of spleen ,thymus& lymph nodes. CO2. Know about blood groups, ELISA, & immune electrophoresis by demonstration method. CO3. Learn about the use of autoclave & importance of sterilization. CO4.Auquire skills for handling equipments for biotechnology practicals. CO5. Know about blotting techniques & DNA fingerprinting.

PRINCIPAL
M.V.R. DEGREE COLLEGE
Shramika Nagar, Gajuwaka,
VISAKHAPATNAM - 530