

**Course Outcome:**

Course	Papers	Title	Course out come
Semester I	<b>CT-1</b>	Non-chordates I	Paper consist of seven units through which students will be able to gather information on Taxonomy and some Invertebrate kingdoms and phylums (Protozoa to Nematoda)
	<b>CT-2</b>	Perspectives In Ecology	Students will be able to gather information on ecosystem, population, community, energy flow and biogeochemical cycle. A special unit is also introduced through which students will able to know about conservation strategy.
	<b>CP-1</b>	Non-chordates I Lab	Students will be able to identify some Invertebrate animals based on their systematic position and distinguishing features.
	<b>CP-2</b>	Perspectives In Ecology Lab	Students will able to study the parameters of aquatic ecosystem and can measure the biodiversity indices of a population. In this paper an excursion is also included as a part of lab to land visit.
Semester II	<b>CT-3</b>	Non-chordates II	Students will be able to gather information on some Invertebrate kingdoms and phylums (Annelida to Echinodermata) and Hemichordata
	<b>CT-4</b>	Cell-Biology	Students will be able to gather information on cell and details about cellular organelle and plasma membrane. Students will also gather information on Cell cycle, Apoptosis and cancer.
	<b>CP-3</b>	Non-chordates II Lab	Students will able to gather the information about the identification of various invertibrates from specimans along with tissue preparation, mounting, staining and also know how to prepare a project report on any larval forms.
	<b>CP-4</b>	Cell-Biology Lab	Students will able to know the various stages of cell division through slide preparation, and also able to see and identity the DNA through Feulgen reaction.
	<b>CT-5</b>	Diversity of Chordates	The course comprises 8 units whereby the student gathers knowledge about the world of Chordates, their classification, and some important features of them in details.
	<b>CT-6</b>	Animal physiology controlling &	This includes a total of 6 units where students are introduce to the world of physiology, basic physiological processes controlling &

Semester III		coordinating systems	coordinating systems of an animal's body, and brief ideas of Endocrine system.
	<b>CT-7</b>	Fundamentals of Biochemistry	This course include 5 units where the students are explored the world of Biochernistry, basic fundamental processes that held In a cellular environment.
	<b>CP-5</b>	Diversity of Chordates lab	This course provides students to identify the diverse animal specimens from Agnatha to Mammals, along with dissection of pecten from fowl head and pituitary of fish.
	<b>CP-6</b>	Animal Physiology: Controlling & Coordinating Systems lab.	This includes the identification of various components of skeletal systems preparation & mounting of various tissues, Recording of computer aided muscle twitch and electrical stimulation, and tissue preparation through microtome.
	<b>CP-7</b>	Fundamentals of Biochemistry lab	This includes the quantitative tests of biological macromolecules, study of enzymatic activity, and acid-alkaline phosphatase assay.
Part III	<b>IX</b>	Ethology, Biodiversity Conservation, Ecology, Biometry, Applied Zoology, Microbiology, Parasitology, Medical Entomology	This course provide the students detail knowledge of the aforementioned topics like life cycle of many parasites, bacterial and viral structures, certain behavioural patterns of animal world. Biological diversity, ecosystem etc.
	<b>X</b>	Molecular Biology, Biotechnology, Immunology, Developmental	This paper includes advance biological science that provide the students with the basic fundamental knowledge of the world of molecular biology biotechnology developmental biology, from where the students are able to gather the modern aspects of life science.

		Biology, Endocrinology	
	<b>XI</b>	Practical Works of Ecology, Applied Zoolcgy Field- based Study/Review Work	This paper includes the practical studies, of ecosystem, ecosystem diversity, animal behavior whereby the students will gather the information in her/his own.
	<b>XII</b>	Practical Works of  Histology & Statistical  Microoiology & Parasitology, Educational visit to an Agriculture/ Sericulture/ Fishery/Poultry Farm to study equipment and satety measures along with the process & mechanism adopted. A report should be submitted describing the nature of the work done  OR	This paper provides the student into the practical and microscopic world of tissue system whereby a student learns tissue preparation through microtome. This also includes study, identification of microbial, viral world that allow the students to see those tiny entities. This course also provides the students an educational tour whereby a student can gather knowledge of biological diversities throughout the Nature.

		<p>Visit to a Forest Ecosystem/Sea Side to study biodiversity. A report should be submitted describing the nature of the work done</p>	
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