

S.NO.	COURSE	LEARNING OBJECTIVES	EXPECTED OUTCOMES
SEMESTER 1ST			
01	ANIMAL DIVERSITY (NON-CHORDATES) (ZOO/BTCH-CC-102)	The main objective of this course is: <ol style="list-style-type: none"> 1. To understand what the NON-CHORDATES are. 2. To understand different categories of non-chordates. 3. To understand the general characters of each class of non-chordates. 4. To understand the level of organization in non-chordate classes. 5. To understand the origin and evolutionary relationship among various non-chordates. 	On completion of the course, students are able to: <ol style="list-style-type: none"> 1. Understand general taxonomic rules on animal classification, the principles and methods of taxonomy, the Levels of structural organization and the Basis of Classification -coelom, symmetry, segmentation and its types. 2. Classify the phylum Protozoa, Porifera & Coelenterate using examples, Understand the Locomotion in Protozoa, canal system of sponges, Coral and coral reefs & economic importance of Protozoa, Porifera. 3. Classify Phylum Ctenophora, helminths & Annelida with taxonomic keys, and a basic idea of vermiculture, parasitic adaptations. 4. Write down the classification and characteristics of Phylum Onychophoran & Arthropoda, and Understand Metamorphosis in insects, Apiculture, Sericulture. 5. Write down the classification and characteristics of Phylum Mollusca, Echinodermata & Hemichordate and Understand the process of pearl formation and water vascular system of star fish.
02	Lab course based on ZOO/BTCH-CC-102 (ZOO/BTCH-CC-105)	The main objective of this course is to: <ol style="list-style-type: none"> 1. Gain knowledge to identify various animals based on morphological features 2. Prepare the slides of various organisms 3. Understand the principle and use of microscopes and micrometry 4. Gain knowledge about various organ systems of different organisms by dissecting them. 	After successful completion of course: <ol style="list-style-type: none"> 1. The students have good understanding about the morphological features of organisms and are able to differentiate the organisms belonging to different phyla on the basis of the morphological characters of organisms. 2. The students will have information about anatomical features of different organisms and can evaluate the importance of different organs found in diverse group of organisms.

			3. The students will be able to prepare and mount the slides so that they will be able to visualize every particular organism which they want to study about.
03	FISH FARMING (ZOO-GE-102)	<p>The aim of this study programme is:</p> <ol style="list-style-type: none"> 1. To provide students with both the biological knowledge about fish and also strong technological knowledge for the development of principles of fisheries and aquaculture 2. To make students capable for applying the modern methods and techniques in planning, design, management and operation of the fish farms. 	<p>After successful completion of course:</p> <ol style="list-style-type: none"> 1. The students have a good understanding of the culture techniques of various aquatic organisms which would be helpful for the production of healthy food for human consumption in a sustainable manner. 2. The programme will open up several avenues for students in terms of research and employability. 3. Students would sufficiently be skilled in using relevant tools and techniques for the better management of culture ponds and hatcheries with reference to water quality, diseases, nutrition and supplementary feeds as well as marketing and fish processing. 4. This programme will make them suitably knowledgeable to become entrepreneurs or to undertake jobs in different sectors of aquaculture such as in farms, hatcheries, analytical laboratories, feed industries, fish processing industries, marketing, etc. The broad skills and the deeper knowledge in the field would make them highly successful aqua culturists
04	COMMUNICATIVE ENGLISH (ZOO-AECC-101)	<p>The main aim of this course is:</p> <ol style="list-style-type: none"> 1. To develop vocabulary and improve the accuracy in grammar and produce words with right pronunciation. 2. Improve LSRW- listening, speaking, reading and writing skills and the related sub-skills also demonstrate positive group communication exchanges. 	<p>At the end of the course, students will be able to...</p> <ol style="list-style-type: none"> 1. Analyse and restate the meaning of a text in English 2. Demonstrate the skill to write in English without grammatical error 3. Practice listening effectively to communication in English 4. Develop the ability to speak English language with the right way of pronunciation

			5. Express the viewpoints with confidence in English
SEMESTER 2ND			
01	ANIMAL DIVERSITY (CHORDATES) (ZOO/BTCH-CC-202)	The main objective of this course is: <ol style="list-style-type: none"> 1. To understand what the chordates are. 2. To understand different categories of chordates. 3. To understand the general characters of chordates. 4. To understands the level of organization in chordate subphylum. 5. To understand the origin and evolutionary relationship in different subphylum of chordates. 7. To understand the origin and evolutionary relationship in different classes of CHORDATES. 	On completion of the course, students are able to: <ol style="list-style-type: none"> 1. Understand and study the classification of Protochordate, Ascidia & Amphioxus 2. Understand the classification of Agnathan & Gnathostomata, Characters of Petromyzon, amocoete larva. 3. Understand the classification of Pisces, and basics of pisciculture, Scales, Fins, migration in fishes. 4. Understand the classification of Amphibia, Reptilia, and the General Topics like Adaptive radiation in Amphibian, Neoteny, Parental care in Amphibians, Poisonous and non-poisonous snakes, poison apparatus. 5. Understand the classification of Aves, Mammals and the General Topics like perching mechanism, flight adaptation, migration and feathers in birds and adaptation, hair and dentition in Mammals.
02	LAB COURSE BASED ON ZOO/BTCH-CC-202 (ZOO/BTCH-CC-205)	The main objective of this course is to: <ol style="list-style-type: none"> 1. Gain knowledge to identify various animals based on morphological features 2. Prepare the slides of various organisms 3. Understand the principle and use of microscopes and micrometry 4. Gain knowledge about various organ systems of different organisms by dissecting them 5. Gain knowledge about distinguishable characters between poisonous and non-poisonous snakes 	After successful completion of the course: <ol style="list-style-type: none"> 1. The students have good understanding about the morphological features of organisms and are able to differentiate the organisms belonging to different phyla on the basis of the morphological characters of organisms. 2. The students will have information about anatomical features of different organisms and can evaluate the importance of different organs found in diverse group of organisms. 3. The students will be able to prepare and mount the slides so that they will be able to visualize every particular organism which they want to study about.

03	WILDLIFE CONSERVATION AND MANAGEMENT (ZOO-GE-202)	The main objectives of the course are to <ol style="list-style-type: none"> 1. Provide understanding and knowledge on modern concepts in wildlife management. 2. Provide an insight into relevant conservation policies and legislation and their enforcement mechanism at Global and Local Level. 3. Provide hands on experience and training in use of modern scientific methods, techniques and tools that are required for biodiversity assessment and monitoring of conservation goals. 4. Develop understanding of landscape approach to conservation and skills for scientific wildlife management planning. 5. Develop scientific skills for resolving human wildlife conflict including capture, handling, care and management of wild animals. 	After successful completion of the course: <ol style="list-style-type: none"> 1. Students will understand the factors affecting the need to find sustainable practices for production of food, feed and fibre crops and how to implement them. 2. Students will be competent in basic forest management principles and evaluation of forest stands for health, wildlife habitat and lumber use. 3. Students will know how to identify and sustainably manage insects in various plant production systems. 4. Students will understand the general principles of ecology as how they are related to terrestrial and/or aquatic plant and animal conservation and management. 5. Students will be able to identify species, characteristics, habitat requirements and life cycles of birds, fish and/or mammalian wildlife species.
04	ENVIRONMENTAL SCIENCE (ZOO-AECC-201)	The main objective of this course is to: <ol style="list-style-type: none"> 1. Acquire an awareness of the environment as a whole and its related problems. 2. Gain a variety of experiences and acquire a basic understanding and knowledge about the environment and its allied problems. 3. Acquire an attitude of concern for the environment. 4. Participate in improvement and protection of environment. 	After completing the major in Environmental Science, students will be able to: <ol style="list-style-type: none"> 1. Articulate the interconnected and interdisciplinary nature of environmental studies. 2. Demonstrate an integrative approach to environmental issues with a focus on sustainability; 3. Understand and evaluate the global scale of environmental problems; and reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.
SEMESTER 3RD			
01	APPLIED ZOOLOGY (ZOO/BTCH-CC-302)	The main objective of this course is <ol style="list-style-type: none"> 1. To apply existing scientific knowledge to develop more practical applications. 	After completion of course students will <ol style="list-style-type: none"> 1. Understand concepts of fisheries, fishing tools and site selection.

		<p>2. To provides the knowledge of medicine, dentistry, Veterinary medicine, medical technology, nursing, zoological teaching, zoological research, agriculture, environmental science and conservation. Zoological Knowledge</p>	<p>2. Aquaculture systems, induced breeding techniques, post harvesting techniques. 3. Understand the biology behind host-parasite interactions 4. Learn about epidemiological and pathological concepts of parasitic infections of global importance. 5. Students garner important concepts about the economic importance of insects.</p>
02	<p>LAB COURSE BASED ON ZOO/BTCH-CC-302 (ZOO/BTCH-CC-305)</p>	<p>The main objective of this course is to:</p> <ol style="list-style-type: none"> 1. Make students aware about the characteristic morphological differences between organisms. 2. Teach students about the technique of morphometry and identification of various types of scales. 3. Identify pest of agriculture and diseases in silkworm. 4. Examine the life cycle stages of various insect species. 5. Identify various endoparasites. 	<p>After successful completion of the course:</p> <ol style="list-style-type: none"> 1. The students will have good understanding about the morphological features of organisms and are able to differentiate the organisms belonging to different phyla on the basis of the morphological characters of organisms. 2. Students will gain enough information about various pest of crops and study their impact on the crop species they effect 3. The student will be able to describe the morphology, habit and habitat. Systematic position of various organisms
03	<p>ORGANIC EVOLUTION (ZOO-GE-302)</p>	<p>The primary objective of the course is to</p> <ol style="list-style-type: none"> 1. Develop an understanding about the origin of life on earth. 2. Impart appreciation for different life forms on earth 3. Drive home the relationship between different living forms both at the genetic and the ecological level. 	<p>After successful completion of the course the students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the theories of evolution and highlight the role of evidences in support of evolution 2. Explain the theories of organic evolution. 3. Describe the concept of origin of life and theories of origin of life. 4. Describe evolution of man. 5. Illustrate the presence of organisms at various geological time scale. 6. Compare animal distribution in different

			zoogeographical realms.
04	APICULTURE (ZOO-SEC-301)	<ol style="list-style-type: none"> 1. This course is designed to acquaint the student with the broad field of beekeeping. 2. It will include honey bee biology and behavior, management for honey production, products of the hive, pests. 3. The value of bees as pollinators of agricultural crops. 	<p>After successful completion of the course the students will be able to:</p> <ol style="list-style-type: none"> 1. Explain the basic concepts of apiculture like systematics, colony organization, polymorphism, morphology and foraging. 2. Explain the tools and management of apiary. 3. Explain the importance of institutions pertinent to apiculture. 4. Discuss the setup of beekeeping business. 5. Illustrate the bee keeping as occupation. 6. Justify the presence of bees to increase the agriculture productivity.
SEMESTER 4TH			
01	ANIMAL ECOLOGY (ZOO/BTCH-CC-402)	<p>The purpose of this course is to-</p> <ol style="list-style-type: none"> 1. Develop an understanding about the totality of interactions among organisms and their biophysical environment. 2. Make students aware about the trophic structure and dynamics of energy flow. 	<p>After successful completion of the course:</p> <ol style="list-style-type: none"> 1. The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components. 2. The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community. Students will be exposed to the fundamental aspects of ecology. 3. They will get idea about the impact of anthropogenic activities on the environment. 4. Students will get idea about the natural resources and their conservation
02	LAB COURSE BASED ON ZOO/BTCH-CC-402	<ol style="list-style-type: none"> 1. This course is designed to acquaint the students with protocols and techniques used in studies of ecology 	<p>After completion of this course:</p> <ol style="list-style-type: none"> 1. Students learn more about animals, their diets, and habits by looking at them in their native

	ZOO/BTCH-CC-405	<ol style="list-style-type: none"> 2. To gain knowledge about various ecosystems, its flora and fauna 3. To gain enough knowledge about the physio-chemical properties of water, soil. 	<p>environment rather than looking at how they are represented in a zoo. Breeding programs in zoos can fail due to failure to understand the animal's natural habitat and life cycles</p> <ol style="list-style-type: none"> 2. Students can better understand the "services" ecosystem provide. 3. Students become well aware about the impact of anthropogenic activities on flora and fauna and thereby aware people to take adequate steps to save ecosystem. 4. Students gain enough information about organisms' habitat and thus are able to establish an artificial ecosystem wherein organism can thrive better.
04	COMPARATIVE ANATOMY OF VERTEBRATES (ZOO-GE-402)	<ol style="list-style-type: none"> 1. This course mainly examines the evolutionary history of vertebrate morphology with a primary focus on structure-function relationships. 2. Lectures will trace the evolutionary origin of vertebrates through the vast diversity of animals living today. 3. Emphasis will be placed on the analysis of similarities and differences across groups using a systems-based approach to assess the significance of adaptations 	<p>After successful completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate an understanding of the characteristics of vertebrates and what makes both chordates and vertebrates unique among animals. 2. Demonstrate an understanding of the evolutionary history of vertebrates and the evolutionary relationships among different groups of vertebrates. 3. Compare and contrast the many physiological, ecological, and behavioural adaptations of the different groups of vertebrates 4. Compare and contrast the external anatomy, skeletal features, and internal organ systems of the different groups of vertebrates.
05	PUBLIC HEALTH AND HYGEINE (ZOO-OGE-401)	<p>The purpose of the course is to provide knowledge on-</p> <ol style="list-style-type: none"> 1. Determinants of health. 2. Distribution of diseases and disorders. 	<p>After successful completion of the course students will:</p> <ol style="list-style-type: none"> 1. Learn principles of nutrition and dietetics. 2. Understand the ill effects of modern lifestyle. 3. Study the advantages of being hygienic.

		3. Factors responsible for such health and disease pattern in the population	4. Understand various aspects of mental wellbeing. 5. Gain knowledge of communicable and non-communicable diseases to improve personal and public health
SEMESTER 5TH			
01	GENETICS (ZOO-CC-501)	<ol style="list-style-type: none"> 1. Genetics is offered as a core course that provides fundamental knowledge of how organisms, populations and species evolve. 2. Apart from Mendel's laws and basic genetics, this course will provide some of the most incisive analytical approaches that are now being used across the spectrum of the biological disciplines 3. Overall, this course will highlight extension of Mendelian Genetics, dosage compensation, evolution of the concept of gene and its amalgamation with molecular biology and study of genetic diseases 	<p>After completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Describe the genetic variation through linkage and crossing over, gene frequency, chromosomal aberrations and sex determination. 2. Understand the theories of classical genetics and blood group inheritance in man 3. Explain the concept of mutation. 4. Gain enough information about genetic disorders
02	LAB COURSE BASED ON ZOO/BTCH-CC-501 (ZOO/BTCH-CC-504)	<p>The main objective of this course is:</p> <ol style="list-style-type: none"> 1. To gain knowledge about structure of chromosomes. 2. To prepare chromosomes from different tissue cells and to study about them 3. To be able to demonstrate the type of blood group present in an organism Understand molecular techniques of DNA extraction, cloning, PCR, and sequence analysis 4. To study about the mutants of drosophila and pedigree analysis of haemophilia 	<p>After successful completion of this course:</p> <ol style="list-style-type: none"> 1. Students are able to differentiate the different parts of chromosomes and also are able to distinguish the parts of chromosomes that are transcriptionally active /inactive, the structures that are important for maintenance of chromosome structure, its functioning within the cell 2. The students are able to estimate the amount of DNA present in a cell and are well aware about the diseases caused due to various mutations 3. The students are able to develop a pedigree relation among different group of organisms.
03	PARASITOLOGY AND ENTOMOLOGY	<ol style="list-style-type: none"> 1. The course aims to give an overview of biological basis of parasitic lifestyles 	<p>After successful completion of the course students will be able to:</p>

	(ZOO-CC-502)	<p>including host responses and parasite evasion of host defence mechanisms</p> <ol style="list-style-type: none"> The students learn about transmission, epidemiology, diagnosis, clinical manifestations, pathology, treatment and control of major parasites. Understanding the morphological fundamentals of insects in order to understand their diversity. 	<ol style="list-style-type: none"> 1) Explain the basic biology and lifecycle of parasites including epidemiology, diagnosis and treatment. 2) Explain animal associations and their types. 3) Analyse the medical and public health aspects of human parasitic infections. 4) Understand the importance of hygiene with respect to epidemic diseases. 5) Identify and classify insects up to orders 6) Explain the structure of various body appendages 7) Explain the concept of metamorphosis and its hormonal control
04	LAB COURSE BASED ON ZOO/BTCH-CC-502 (ZOO/BTCH-CC-505)	<p>The main objective of this course is to:</p> <ol style="list-style-type: none"> 1) Understand the biology behind host-parasite interactions 2) Trained to diagnose, identify and detect some important parasites 3) Learn pathological changes associated with parasite infections 4) Define the biochemical targets of drugs targeting parasites 5) Define the mechanisms of parasite drug resistance 	<p>After successful completion of the course students will be able to:</p> <ol style="list-style-type: none"> 1. Distinguish the individual parasitic Infectious diseases. 2. Explain the methods used for diagnosis and treatment of protozoan Infectious diseases. 3. Recognize the helminth, trematode nematode agents. Explain the methods used for diagnosis and treatment of infectious diseases. 4. Distinguish the methods used for protection of parasitic infectious diseases. 5. To get information about different orders of insects and to study about their uses and diseases caused by them
05	AGROCHEMICAL AND PEST MANAGEMENT (ZOO-GE-502)	<p>To train the students in the following aspects-</p> <ol style="list-style-type: none"> 1. Preparation of bio and chemical pesticides 2. Setting of analytical and tissue culture laboratories 3. Effect of agrochemicals on soil, water, atmosphere and biota 4. Integrated pest management techniques. 	<p>Upon the completion of the course-</p> <ol style="list-style-type: none"> 1. Students will gain knowledge about the concepts and tools of pest management. 2. Understand the planning of agricultural ecosystem, tolerance of pest damage, timing of different pest control tactics to manage the pest population effectively.

			<ol style="list-style-type: none"> 3. Learn about the use of different pest control techniques in a harmonious manner. 4. Understand the role of IPM in sustainable agriculture as the future of modern plant protection and pest control strategy.
06	SERICULTURE (ZOO-DSE-502)	<p>The main objective of this course is to:</p> <ol style="list-style-type: none"> 1. Train the students in identifying the diseases and pests of the mulberry plant. 2. It also involves giving students a thorough knowledge about the cultivation of mulberry, maintenance of the farm, seed technology, silkworm rearing and silk reeling. 3. Students get to learn about the quality of various things like leaf, seed cocoon, commercial cocoon and fiber so that they can get maximum return when actually practiced. 	<p>This course mostly:</p> <ol style="list-style-type: none"> 1. Gives knowledge of silk worm rearing 2. Mulberry cultivation 3. Pests and diseases associated with silk worm and mulberry 4. Various process involved in silk production
SEMESTER 6TH			
01	REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY (ZOO-CC-601)	<ol style="list-style-type: none"> 1. The main objective of Developmental Biology course is to provide four-dimensional thinking of students to truly understand the patterns and process of embryonic development, body plan, fate map induction, competence, regulative and mosaic development, molecular and genetic approach for the study of developing embryo which is not necessarily shared with any other disciplines in the biological sciences. 2. To understand how organisms maintain gametic population and process of 	<p>In this course students will be able to learn about-</p> <ol style="list-style-type: none"> 1. Process of asexual reproduction in and regeneration in invertebrates. 2. Describe the functional role of male and female reproductive organs along with their structure, and anatomy. 3. Describe the various types of sexual cycles occurring in different animals and the hormones responsible for the rhythm of these cycles. 4. Describe and visualise the early embryonic events and embryonic events.

		<p>fertilization.</p> <ol style="list-style-type: none"> To understand way of cleavage and different patterns to form zygote, fundamental embryonic development, and formation of germ layers. 	
02	<p>LAB COURSE BASED ON ZOO/BTCH-CC-601</p> <p>(ZOO/BTCH-CC-604)</p>	<ol style="list-style-type: none"> Main aim is to describe the changes that occur in the reproductive system over the lifetime of an individual. To identify the major hormones involved in reproduction and describe their role in regulating reproduction in males and females. To describe processes that can lead to dysfunction of the reproductive system. To get knowledge about reproductive cycles in rats /fishes 	<p>Upon the completion of this course-</p> <ol style="list-style-type: none"> Students will be able to describe and identify reproductive organs in fishes/rats. Learn in detail about oogenesis, and spermatogenesis. Get acknowledged with the histology of male and female reproductive organs. Learn about various developmental stages, through whole mounts and sections of developmental stages in frog.
03	<p>ANIMAL PHYSIOLOGY</p> <p>(ZOO-CC-602)</p>	<p>The main objective of this course is:</p> <ol style="list-style-type: none"> To understand the metabolic activities in mammalian body. To understand the working of control and coordinating system in human body. To understand the gaseous transport and the structure involved in gaseous transport in mammalian body. To learn about the circulatory and digestive system. 	<p>On completion of the course, students are able to:</p> <ol style="list-style-type: none"> Understand the Physiology of Digestion & Respiration. Understand the Physiology of Circulation & nerve impulse and Reflex Action. Understand the Physiology of muscle contraction & Excretion Understand the Physiology & Types of Endocrine glands.
04	<p>LAB COURSE BASED ON ZOO-CC-602</p> <p>(ZOO-CC-605)</p>	<p>The main objective of this course is:</p> <ol style="list-style-type: none"> To understand the adrenalin and insulin induced changes in blood so as get full knowledge about the impact of these chemicals on various cells of body To study various components of blood by 	<p>At the end of the course students should:</p> <ol style="list-style-type: none"> Have an enhanced knowledge and appreciation of mammalian physiology; Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic

		<p>preparing slides separately so as to get complete information about each individual component</p> <ol style="list-style-type: none"> To determine the blood count and sedimentation rate of erythrocytes and also to estimate hemoglobin. To gain information about the impact of PH,temperature on the activity of salivary amylase. 	<p>systems;</p> <ol style="list-style-type: none"> Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail; Be able to perform, analyse and report on experiments and observations in physiology; Be able to recognise and identify principal tissue structures
05	POULTRY AND DIARY FARMING (ZOO-GE-602)	<ol style="list-style-type: none"> Main aim is to develop skills of rearing cattle among the students To acquaint them enough information regarding poultry breeds, diseases, farm management of both poultry and dairy. 	<p>After completion of the course students shall learn-</p> <ol style="list-style-type: none"> about traditional systems of cattle and concepts of farming Milk chemistry and microbiology of milk. About basic concept of design in dairy plant for milk and other products About management, budgeting and planning of dairy farm and poultry farm Students will learn about animal welfare and animal protection legislation
06	BIOSTATISTICS (ZOO-DSE-601)	<ol style="list-style-type: none"> The course on biostatistics will help students gain knowledge about the mathematical operations used in the data collection and analysis. The course is designed in such a way that the students get the knowledge to use computer programs for the daily design of experiments, data collection, and analysis of results. 	<ol style="list-style-type: none"> The students will learn about graphical representations of data and simple and complex mathematical operations useful in collection and presentation of data. Students studying this course will be able to perform the data analysis using the statistical tools available on any computer such as excel as well the programs for big and complex data. They will be able to handle high throughput proteomic and genetic data.
SEMESTER 7TH			
01	POPULATION ECOLOGY	<ol style="list-style-type: none"> This course is designed to understand the 	Students shall acquire knowledge about-

	AND LIMNOLOGY (ZOO-CC-701)	<p>totality of the interactions among organisms and their biophysical environment.</p> <ol style="list-style-type: none"> The energy flow, in different ecosystems can be elucidated through structure and function of ecosystem. The population ecology deals with the population characteristics and growth by various models and life history strategies. The course on limnology includes the study of physical, chemical, biological and geological characteristics and functions of inland waters. 	<ol style="list-style-type: none"> population dynamics through mathematical and graphical approaches and about the critical stages of organisms. Community ecology, levels and measurement of species diversity, and extrinsic and intrinsic mechanisms of population regulation Trophic dynamics of ecosystems and limitation of elements for growth and multiplication of organisms and also about the habitat and niche. The anomalous properties of water and their influence on biota Thermal stratification and classification of lakes, and factors influencing light penetration in lakes.
02	CYTOGENETICS ZOO-CC-702	<ol style="list-style-type: none"> The purpose of the course is to provide a working knowledge of cytogenetics, and the importance of chromosomal variations in structure and number in such fields as plant and animal breeding, population genetics, evolutionary genetics, taxonomy, and the medical sciences. Cytogenetics will impart knowledge about the human chromosome constitution that would help in applying basic principles of chromosome behaviour to disease context. would help in applying basic principles of chromosome behaviour to disease context. 	<ol style="list-style-type: none"> The student will be able to recognize, describe and discuss in detail the different aspects of chromosomal structure, number, and behaviour, and their effects at the organismal, population and species levels. The students will be able to decipher the relation of genes present on chromosomes with that of heredity and evolution. The course will teach students about the various chromosomal anomalies, their cause and their effects.
03	INFECTIOUS DISEASES ZOO-CC-703	<ol style="list-style-type: none"> The purpose of this course is to develop knowledge about various physio - pathological concepts of contagious diseases and implications in the public health domain. It will help create awareness among young students about the role of hygiene in prevention of spread of 	<p>Upon the completion of this course the students shall be able to-</p> <ol style="list-style-type: none"> Describe various modes of infections. Identify different causative agents and mode of their transmission. Describe certain important bacterial, viral, fungal & protozoan diseases affecting man and their treatment.

		disease	
04	LABORATORY COURSE BASED ON ZOO-CC-701, ZOO-CC-702 & ZOO-CC- 703 (ZOO-CC-704)	The lab course as an amalgamation of three different subjects will- <ol style="list-style-type: none"> 1. Try to deliver to students the requisite expertise in the fields of ecology & limnology, cytogenetics and infectious disease. 2. Arm the students with basic skillset to perform advanced experiments in research. 	The students will be able to- <ol style="list-style-type: none"> 1. Determine the physio-chemical properties of lentic and lotic water bodies. 2. to perform qualitative & quantitative estimation of phytoplankton and zooplankton in freshwater aquatic system. 3. Collect and identify macrophytes & macrobenthos. 4. Estimate primary productivity of water bodies. 5. Prepare Idiogram and study it, identify karyotype asymmetry in Homo sapiens. 6. Observe the structure of chromosome and draw conclusions.
05	FISH BIOLOGY (ZOO-DSE-701)	<ol style="list-style-type: none"> 1. Course provides students comprehensive understanding about aquatic ecosystem and various economical important fish. 2. Students gain knowledge in the areas of responses characterization and classification of Ostracoderms, placoderms, acanthodians, Holocephali, elasmobranchs. 	<ol style="list-style-type: none"> 1. Students gain knowledge of integumentary system - basic structure of skin, dermal and epidermal pigments, fins, and scales. 2. Understanding of embryogenesis - Early development and post embryonic development 3. Understanding of fish habits and habitats and their functional anatomy 4. The students will be well equipped to become very competent in research or teaching fields 5. It is one of the small-scale industries which can provide the student employment opportunity.
06	LABORATORY COURSE BASED ON ZOO-DSE-701 (ZOO-DSE-702)	The laboratory course on fish biology- <ol style="list-style-type: none"> 1. Will help students gain practical knowledge about the identification of fish and their morphology as well as anatomy. 2. This course will help the students to put into practice what they have learnt in the theory paper 	By the end of this course, the students will be able- <ol style="list-style-type: none"> 1. To identify different fish species and describe their distinguishing characters. 2. To prepare, mound and observe different types of fish scales, and distinguish between different types of scales. 3. Perform dissection on fish to observe internal

		3. Observe minute details about the fish.	anatomy. determine gastro-somatic index. 4. Determine age of fish using scales.
07	MEDICAL ENTOMOLOGY (ZOO-DSE-703)	<ol style="list-style-type: none"> 1. Medical Entomology will highlight the direct injuries and diseases caused by arthropods (Phobias, annoyance, allergies, toxins, venoms and myiasis, arthropod transmission of vertebrate parasites and pathogens). 2. The course offers information on transmission of diseases, methods of surveillance for diseases, effective Integrated Management of Vector control and other methods of prevention of arthropod borne diseases. 	<p>Upon the completion of the course</p> <ol style="list-style-type: none"> 1. The students shall be able to describe in detail the biology of insects as parasites or vectors causing and spreading disease among humans. 2. The students will have a deep understanding of the ecological niche of the medically important insects and role of climate change in spread of disease. 3. The students will be able to distinguish and diagnose various arthropod borne diseases affecting humans. 4. The students will be able to devise strategies for control of crop and veterinary pests.
08	LABORATORY COURSE BASED ON ZOO-DSE-703 (ZOO-DSE-704)	<p>As students learn better by practice this course will expose the students to</p> <ol style="list-style-type: none"> 1. the basic research requirements in the field of entomology, 2. learning how to collect insects & maintenance of different life cycle stages 3. discovering various economically important pest, students will be benefitted in more than one way. 	<p>By the end of this course the students will be able to-</p> <ol style="list-style-type: none"> 1. Collect and preserve different insect types. 2. Collect and identify different genera of medically important insects. 3. Prepare permanent mounts of mosquito respiratory siphon and trumpet. 4. Collect, preserve and identify important pests of apple pear and peach, and stored grain pests. 5. Prepare whole mount of small insects. 6. They will also learn about pests of paddy in Kashmir.
09	ORGANIC FARMING (ZOO-SEC-701)	<ol style="list-style-type: none"> 1. The course is designed to impart knowledge among young students about the practice and basics of organic farming. 2. This course will focus on delivering to students the basic requirements and know-how of organic farming practices 	<p>Upon completion of the course-</p> <ol style="list-style-type: none"> 1. The students shall be able to compare and contrast between conventional farming and organic farming. 2. The students will garner knowledge about the green manure techniques and shall be able to

		<ol style="list-style-type: none"> Its advantage over conventional farming practices. 	<p>implement them.</p> <ol style="list-style-type: none"> The students will be able to produce, propagate and protect plants biologically without using conventional deleterious practices such as pesticide usage. The students by the end of this course would learn about the professional aspects of organic farming and ways to take it up as a career.
SEMESTER 8TH			
01	GENERAL ENDOCRINOLOGY (ZOO-CC-801)	<ol style="list-style-type: none"> The purpose of the course on general endocrinology is to impart knowledge about the major part of control and coordinating system that is the endocrine system. The course is so designed so as to impart knowledge about the sites of production, the process of production of hormones, and their role in maintaining homeostasis and carrying out physiological processes. 	<p>Upon the completion of the course</p> <ol style="list-style-type: none"> The students shall be able to describe in detail the various endocrine glands producing hormones along with details about their histology and functional role and regulation. The students will learn about the various biosynthetic pathways and precursors for the production of hormones. By the end of this course students will understand the hormonal regulation of behaviour and effect of different hormones in different classes of animals.
02	CELL AND MOLECULAR BIOLOGY (ZOO-CC-802)	<ol style="list-style-type: none"> This course will provide knowledge about the complex organization in the eukaryotic cell and the molecular mechanisms of the cellular processes that exist in all cell types. This course is an amalgamation of basics of cell biology and molecular biology and will deliver on both fronts by imparting knowledge about the cellular structures and their composition 	<p>This course has enormous potential outcomes as-</p> <ol style="list-style-type: none"> Students will learn about the membrane structure and the composition along with the various models proposed. Students will have great understanding about the subcellular organelles and the mechanism through which these subcellular structures interact. The students will learn about the genes residing in the nucleus of a cell and the replication process.

		<ol style="list-style-type: none"> 4. It will provide insights into subcellular molecular process that unwind in the cell as we try to look through the lens of molecular biology. 	<ol style="list-style-type: none"> 4. The students will learn about transcription and translation and have knowledge about the expression of genes through the synthesis of target molecules.
03	CANCER BIOLOGY (ZOO-CC-803)	<ol style="list-style-type: none"> 1. Learn the biological processes underlying cancer initiation, progression, and metastasis. 2. Identify how tumours evolve and respond to or resist treatment. 3. Study how cellular processes—such as cancer cell metabolism, stress responses, and cell cycle regulation—contribute to cancer development and progression. 	<ol style="list-style-type: none"> 1. The students will learn about cancer and carcinogens. 2. Students will be able to differentiate between cancerous and normal cells and the methods by which cancerous cells grow, spread and invade. 3. The students will learn about the preventions of cancer through healthy lifestyle, medicine and nutrition. 4. The students will get to learn about the diagnostic techniques to detect cancer and treatment after detection using radio, chemo, immuno- therapy etc. 5. The students will have understanding about how mutations in cell cycle, certain viruses and chromosomal aberrations relate to cancer.
04	LABORATORY COURSE BASED ON ZOO-CC-801, ZOO-CC-802 & ZOO-CC- 803 (ZOO-CC-804)	<ol style="list-style-type: none"> 1. The lab course based on endocrinology, cell & molecular biology and cancer biology will help students gain important concepts about the endocrine histology, and effect of certain endocrine hormones. 2. The course will develop molecular biology technique skill set among students that will benefit them in research. The practical portion concerned with cancer biology will try to develop research methodology among young scholars. 	<p>After completion of this lab course-</p> <ol style="list-style-type: none"> 1. Students will have a deep-rooted understanding about endocrine glands and their histology. 2. Students will be able to demonstrate experimentally the effect of testosterone on comb of chick and thyroxine on metamorphosis. 3. Students will be able to extract DNA, perform estimation of RNA, AGE, DNA amplification etc. 4. The students will learn about incidence of cancer through statistical data, and will be able to accomplish pedigree analysis. Students will also learn about the histology of benign tumour.

05	PARASITE IMMUNOLOGY & EMERGING PARASITIC DISEASES (ZOO-DSE-801)	<ol style="list-style-type: none"> 1. The course aims to give an overview of biological basis of parasitic lifestyles including host responses and parasite evasion of host defence mechanisms. 2. Students learn evolutionary aspect of host-pathogen interactions leading to host specificity. 3. The students learn about transmission, epidemiology, diagnosis, clinical manifestations, pathology, treatment and control of major parasites. 	<ol style="list-style-type: none"> 1. Understand the biology behind host-parasite interactions. 2. Learn about epidemiological concepts of parasitic infections of global importance 3. Learn pathological changes associated with parasite infections 4. Define the mechanisms of parasite drug resistance 5. Define the immune evasion strategy employed by certain parasites 6. Understand the concept and re-emergence of parasitic diseases and factors responsible for it.
06	LABORATORY COURSE BASED ON ZOO-DSE-801 (ZOO-DSE-802)	<ol style="list-style-type: none"> 1. Laboratory course on parasitology and immunology will make students familiar with 2. Techniques of collection of various endoparasites and ectoparasites, 3. Their different life cycle stages 4. Suitable lab diagnostic techniques and identification on the basis of morphological and anatomical characteristics. 5. The portion concerned with immunology will make students aware about the various immunological assays and techniques, for better understanding of immunological response to infection. 	<p>Upon the completion of this course students will be able to-</p> <ol style="list-style-type: none"> 1. Identify and observe parasitic stages in host animals. 2. Perform blood examination for presence of blood parasites. Learn methods of collection of helminths, and their fixation and preservation. 3. Prepare permanent mounts of trematodes, cestodes, acanthocephala and nematodes. 4. Identify the species of parasite on the basis of morphological and anatomical features. 5. Perform immune-electrophoresis, direct and indirect hemagglutination, complement fixation.
07	ORNAMENTAL FISHERIES (ZOO-DSE-803)	<ol style="list-style-type: none"> 1. The course on ornamental fisheries will develop knowledge among the learners about the importance of certain fish for aesthetic and ornamental purpose. 2. The course will help develop an entrepreneurial dimension with regard to rearing, breeding, export and trade of 	<p>Upon completion of this course the students will be able to-</p> <ol style="list-style-type: none"> 1. Understand the trade potential and scope of ornamental fish. 2. Identify different varieties of exotic and indigenous ornamental fish. 3. Will have an understanding about the challenges

		ornamental fish.	and opportunities of aquarium fisheries in Kashmir. 4. Will be able to prepare proper feed formulations, undertake breeding for commercial purpose. 5. Will learn about diseases affecting ornamental fish and their treatment.
08	LABORATORY COURSE BASED ON ZOO-DSE-803 (ZOO-DSE-804)	1. This lab course primarily focuses on the development of aquarium management and construction techniques in young students.	Upon the successful completion of this course students will be able to- 1. Set up and maintain an aquarium. 2. Characterise the usage of aquarium equipment and accessories. 3. Identify common as well as locally available ornamental fish, with special reference to ornamental fish in Kashmir. 4. Identify common aquarium plants.
09	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT (AEC-103-ESD)	1. The purpose of this course is to impart knowledge among the readers about the importance of a clean and green environment. 2. This course will help develop the perspective of environment as a natural resource of indefinite value and promote the learners to prevent degradation of their surroundings. 3. This course will impart among the readers the sense of protection of environment for the future generations by dealing in aspects such as consequences of over exploitation of natural resources.	1. The students will garner knowledge about the environment and its importance in sustaining life on earth. 2. The students will understand about the components of environment i.e.; the ecosystem and the biotic and abiotic components that make up an ecosystem. 3. The learner will be able to describe in detail the causes of environment degradation. 4. The students will have an in depth understanding of various types of habitats and their functional value.
SEMESTER 9TH			
01	ADVANCED DEVELOPMENTAL BIOLOGY	1. The main objective of Developmental Biology course is to provide four-dimensional thinking of students to truly	In this course students will be able to learn about- 1. Process of asexual reproduction in and regeneration in invertebrates.

	(ZOO-CC-901)	<p>understand the patterns and process of embryonic development, body plan, fate map induction, competence, regulative and mosaic development, molecular and genetic approach for the study of developing embryo which is not necessarily shared with any other disciplines in the biological sciences.</p> <ol style="list-style-type: none"> To understand how organisms maintain gametic population and process of fertilization. To understand way of cleavage and different patterns to form zygote, fundamental embryonic development, and formation of germ layers. 	<ol style="list-style-type: none"> Describe the functional role of male and female reproductive organs along with their structure, and anatomy. Describe the various types of sexual cycles occurring in different animals and the hormones responsible for the rhythm of these cycles. Describe and visualise the early embryonic events and embryonic events.
02	IMMUNOLOGY (ZOO-CC-902)	<ol style="list-style-type: none"> The primary objective of this course is to help students develop skills necessary for critical analysis of contemporary literature on topics related to health and disease and role of immune system. The lecture-discussion part is conceptualized with the aim that students are taught the basics of immunology so as to develop understanding of the subject, such as how does the immune system work? The course also emphasizes the research and development opportunities for therapeutic intervention arising from recent advances in immunology. The immunological aspects of disease will also be discussed using case-based studies. 	<p>At the end of the course, the students should be able to:</p> <ol style="list-style-type: none"> The students will be able to identify the cellular and molecular basis of immune responsiveness and understand how the innate and adaptive immune responses coordinate to fight invading pathogens. Understand the immunomodulatory strategies essential for generating or suppressing immune responses as required in hypersensitivity reactions, transplantation, autoimmune diseases and cancer. Learn to review the literature to determine the strengths and weaknesses of the data published in immunology and its novelty. Design new methods to improve existing vaccines and other immunotherapeutic strategies. Upon completion of the course students have a sound understanding of the essential elements of

			the immune system, preparing them to engage further in this rapidly evolving field.
03	GENETIC ENGINEERING (ZOO-CC-903)	<ol style="list-style-type: none"> 1. Major objective of this core paper is to introduce to the students' contemporary molecular techniques for manipulation of genome that could assist them towards advanced understanding of biological processes in broad range of host organisms. 2. Lectures will specifically address the historical standard techniques, gradual evolution and context dependent medications of molecular techniques for their extended use. 3. The student should be able to understand standard and system-specific gene manipulation approaches ranging from bacteria to mammals 	<ol style="list-style-type: none"> 1. After successful completion of the course the candidate should be able to design and comprehend experimental strategies for alteration of genes and gene products in variety of organisms. 2. The students shall have understanding of applications of genetic engineering tools. 3. The learner will gain knowledge about different vectors used in genetic manipulations and their specific applications. 4. The students will have at their hands a wide variety of genetic engineering techniques and have proper understanding of their mechanism and application. 5. The students will be able to describe in detail various implications and applications of genome manipulation such as gene transfer and genomic and c DNA libraries.
04	LABORATORY COURSE BASED ON ZOO-CC-901, ZOO-CC-902 & ZOO-CC- 903 (ZOO-CC-904)	<ol style="list-style-type: none"> 1. This combined laboratory course will help students in the development of research potential and capability in three diverse fields viz developmental biology, immunology and genetic engineering by accomplishing various practical exercises based on the theory taught. 	<p>Upon successful completion of the practical work-</p> <ol style="list-style-type: none"> 1. The students will be able to demonstrate the different developmental stages in chick, learn about life cycle of Drosophila, differentiate between various egg types, and identify structure of egg in Drosophila. 2. The students will get a clear understanding of lymphoid organs, hand illustrate the histological structure of different organs involved in immune response. 3. The students will also be able to prepare stained blood film for identification of different cell types

			<p>and also perform agglutination test.</p> <ol style="list-style-type: none"> 4. Will be able to perform ELISA and immunoelectrophoresis. 5. The students will get hands on experience of genetic engineering and tools used therein.
05	INSECT STRUCTURE AND FUNCTION (ZOO-DSE-901)	<ol style="list-style-type: none"> 1. This course is so designed as to introduce students to the intricacies of the insect morphology, anatomy, physiology and reproduction and development. 2. The course will provide the students with great detail about insect life cycle and modes of survival. 	<p>By the end of this course students will learn about-</p> <ol style="list-style-type: none"> 1. The basic morphology of insects and the corresponding details about head, thorax, abdomen and appendages. 2. The anatomical structures concerned with digestion, respiration, excretion and nervous and sensory systems. 3. The physiological process underlying, digestion excretion, osmoregulation, gaseous exchange and circulation, and composition of haemolymph. 4. The reproductive process and the associated organs of reproduction. Modes of development and role of hormones in the indirect mode of development.
06	LABORATORY COURSE BASED ON ZOO-DSE-901 (ZOO-DSE-902)	<ol style="list-style-type: none"> 1. The laboratory course on insect structure and function will expose students to the techniques of major and minor dissections for observing anatomical structures as well as preparation of temporary mounts of various insect appendages. 2. The course will also tend to incorporate among the young readers the knowledge about taxonomy and identification of some economically important genera. 3. The lab course will also deal with the identification and distinction of various developmental stages. 	<p>By the end of this course students will be able to-</p> <ol style="list-style-type: none"> 1. Perform major dissection: To expose Digestive system, Excretory system, Reproductive system in Grasshopper, Honey bee & Cockroach. 2. Perform minor dissection: Temporary mount preparation of pollen basket, sting apparatus of honey bees, salivary glands of Cockroach. 3. Prepare temporary mount of Malpighian tubules & trachea and different types of blood cells in insects. 4. Classify and identify economically important genera of insecta. 5. Observe identify and describe different developmental stages (Nymphs, Naiads, Larva,

			pupa etc) of insects.
07	ANIMAL RESOURCES (ZOO-DSE-903)	<ol style="list-style-type: none"> 1. This course will tend to develop an understanding among the students about the various uses of animals and animal products. 2. The primary focus of this subject will be around the economic aspects of insect populations, aquaculture and domestication of livestock. 	<p>Upon the completion of this course the students will be able to-</p> <ol style="list-style-type: none"> 1. Characterise insects as beneficial and determine their economic importance. 2. Learn about the untapped potential of insect-based industries such as silk, honey and lac production. 3. Learn about the various practices of aquaculture and products of aquaculture and their economic importance, with special reference to fisheries potential in J&K. 4. Determine the optimum requirements of livestock for domestication in view of the economic value. 5. Learn about the breeding experiments and genetics of livestock and poultry. 6. Will learn about the processing of produce for garnering high market value.
08	LABORATORY COURSE BASED ON DSE-903 (ZOO-DSE-904)	<ol style="list-style-type: none"> 1. The practical course on animal resources will help students get hand on experience of various practical applications of animals as resources. 	<p>Upon the completion of this course the students will be able to-</p> <ol style="list-style-type: none"> 1. Describe the modifications in legs of honey bees. 2. Understand the details in the life cycle of silk worm. 3. Identify important culture fish in Kashmir valley 4. Practice induced breeding in culturable fish. 5. Analyse growth and ageing in fish.
09	Nutrition & Health \ (ZOO-OGE-901)	<ol style="list-style-type: none"> 1. The purpose of this course is to teach students about the role of proper nutrition in maintaining health and wellness among individuals, and the importance of a balanced diet. 	<ol style="list-style-type: none"> 1. By the end of this course students will be able to analyse the critical role of nutrients and vitamins, in prevention of disease and maintenance of good health. 2. Students will be able to design a basic nutrition

		<ol style="list-style-type: none"> 2. Apart from nutrition this course will subject the students to learn about psychological wellbeing of an individual, and how mental health is an integral part of healthy lifestyle. 3. Under the public health and disease domain, the students shall learn about various diseases affecting humans and their prevention. 4. The course shall also provide an understanding about how pollution affects human health. 	<p>plan and a balanced diet according to an individual's needs.</p> <ol style="list-style-type: none"> 3. The students will be able to describe, identify, and suggest preventive measures for diseases affecting man. 4. The students will be able to critically analyse the role of clean environment and diseases arising from polluted air, water and intoxication of food.
SEMESTER 10TH			
01	BIOSYSTEMATICS (ZOO-CC-10-01)	<ol style="list-style-type: none"> 1. Taxonomy is mostly concerned with the observation of likeness and variations which exist in the morphology of a huge number of plants. Except it has now been accepted that generally, morphological characters alone are not the criterion for distinctive and classifying plants from one other. 2. One has to acquire into consideration, the characteristics and variations from other disciplines of science like physiology, ecology, cytology, genetics, phytogeography, molecular biology, phytochemistry, numerical taxonomy, breeding systems and any other presented sources for classification. 	<p>After studying this course, students should be able to:</p> <ol style="list-style-type: none"> 1. Understand the patterns and processes of evolution above the species level. 2. Appreciate the differences between the three methods of phylogenetic analysis: evolutionary systematics, phenetics, cladistics. 3. Student are able to understand the fundamental principles of systematic in which the animals are how 4. to classify according to their characters and what are the theories which have to followed for classification is studied. 5. International rules of nomenclature and classification is studied.
02	ANIMAL BEHAVIOUR (ZOO-CC-10-02)	<ol style="list-style-type: none"> 1. This course exposes students to the broad field of animal behaviour. Students will come to understand the historical foundations of the field, as well as current theories and evidence for a broad range of behavioural topics. 	<p>At the completion of their Animal Behaviour course, students will be able to:</p> <ol style="list-style-type: none"> 1. Exhibit critical and integrative thinking skills 2. Demonstrate ability to communicate scientific information in both oral and written formats 3. Demonstrate knowledge of key concepts in

		<ol style="list-style-type: none"> Behavioural ecology and the evolution of behaviours as adaptations will be recurring themes interwoven through all topics discussed. 	<p>animal behaviour</p> <ol style="list-style-type: none"> Demonstrate ability to think flexibly and apply knowledge to new problem
03	WILDLIFE SCIENCES (ZOO-DSE-10-01)	<ol style="list-style-type: none"> The course shall provide an in-depth knowledge about the various aspects of Wildlife conservation and management, by providing the students with knowledge about the habit and habitat of wildlife, their distribution, the monitoring techniques for estimating population, and also modern techniques having implications in wildlife. This course will be beneficial for developing a temperament among students to pursue research and development in the vast field of wildlife. 	<p>After the completion of this course-</p> <ol style="list-style-type: none"> Students shall be able to identify through morphological characters the various bird species and point out their adaptations to their habitat. Learn about the status of wildlife in India and in particular reference to J&K. Will be able to categorise wild animals based on threat assessment into various categories as stipulated by IUCN. The course shall also able the learners to be exposed to the modern wildlife science techniques, that may be crucial for their research in the wildlife sciences.
04	PROFESSIONAL DEVELOPMENT AND CAREER PROGRESSION (ZOO-CC-10-03)	<p>The aim of this course is:</p> <ol style="list-style-type: none"> To prepare the students for various competitive examinations. The course shall provide students with comprehensive knowledge about the programme centred around the multiple-choice questions formulated in various competitive examinations. The course shall guide the students to appear in competitive examinations by intimidating them with recommended books and other study material 	<p>After completion of this course-</p> <ol style="list-style-type: none"> Students shall be fully prepared to appear in various competitive examinations. There will be an increased selection/qualification ratio for competitive examinations as well as research programmes. Apart from preparing the students for various competitive examinations, the course shall provide the students with the complete grasp over the subject by providing a comprehensive revision strategy.
05	DEPARTMENTAL PROJECT (ZOO-PROJ-10-01)	<ol style="list-style-type: none"> Students in the last semester of Masters shall be allotted projects from diverse research fields. 	<ol style="list-style-type: none"> This course shall result in acquaintance of students with research methodology, data collection, data analysis and presentation.

		<p>2. This shall prove beneficial in developing research capability and temperament among the students.</p>	<p>2. The students shall be providing dissertation on the project allotted which shall develop the paper writing capability among the students</p> <p>3. Moreover, this course shall make aware the students about the intricacies associated with field work.</p>
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