



**Department of Zoology**  
**Government Degree College Tral**  
**Kashmir-192123**

Email-Id: zoogdctral@gmail.com



No;DZOO/DCT/2024/

Date; 20-08-2024

**Course Structure Zoology (Course Objective/ Learning Outcome)**

S.NO	Semester	Course Code	Course Title	Course Objective	Learning Outcome
NEP 2020					
1.	1 <sup>ST</sup>	ZOL122J	<b>INTRODUCTION TO SYSTEMATICS &amp; NON-CHORDATES</b>	This course is designed to give a learner the fundamental understanding of relevance of taxonomy and the diversity of non-chordate phyla with emphasis on key characteristics and classification so as to lay a strong foundation in understanding diversity of animal life. It will enlighten how each group of organisms establish themselves in environment with their special characteristics.	<ul style="list-style-type: none"><li>➤ Students will be able to learn basic taxonomy skills and demonstrate classification and identification abilities of non-chordates.</li><li>➤ Comprehend and explain evolutionary relationship among the various non-chordate groups.</li><li>➤ Get sensitized with the relevance of animal diversity in understanding life from a broader perspective.</li></ul>



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					<ul style="list-style-type: none"> <li>➤ The learner will utilize the knowledge gained from these creatures for the economy and human welfare.</li> </ul>
2	2 <sup>nd</sup>	ZOL222J	<b>INTRODUCTI ON TO CHORDATES</b>	The course is designed to give a learner the fundamental understanding of the diversity of the phylum chordate with emphasis on their origin, key characteristics, classification, distribution and functioning.	<ul style="list-style-type: none"> <li>➤ Students will be able demonstrate the identification and classification of chordates.</li> <li>➤ Comprehend and explain evolutionary relationship among the various chordate groups.</li> <li>➤ Understand the ecological distribution and evolutionary divergence of chordates</li> </ul>
3	3 <sup>rd</sup>	ZOL322J	<b>COMPARATI VE ANATOMY OF VERTEBRATE S</b>	This course is desired to give a learner the fundamental understanding of the structure of organ systems of vertebrates so as to lay a strong foundation in understanding their life processes.	After completion of the course , a student should be able to understand the structure of different organ system in vertebrates and shall become a subject expert in animal anatomy.
4	4 <sup>th</sup>	ZOL422J1	<b>COMPARATI VE PHYSIOLOGY</b>	This course is designed to give a learner, knowledge about the functions of different organ systems so as to lay a strong	After the completion of this course student will be able to understand the working of different organ systems and their defects/disorders.

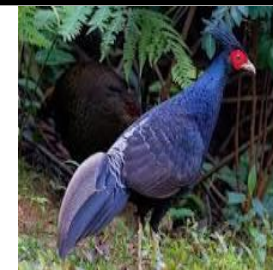


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			<b>OF VERTEBRATES</b>	foundation in understanding their life processes.	
		ZOL422J2	<b>FUNDAMENTALS OF IMMUNOLOGY</b>	To acquire knowledge about immunity, innate & acquired, complement system, understand the concept of immune deficiencies, hypersensitivity, autoimmunity, and transplantation immunology.	Understand the defense mechanisms against pathogens and utilize the knowledge for human welfare: gain knowledge on undesirable immunological reactions and their complications in health management.
		ZOL422J3	<b>FUNDAMENTALS OF PARASITOLOGY</b>	To understand the nature of parasites and parasitism. To acquaint the students about the knowledge of parasites of medical, veterinary and agricultural importance.	The learner becomes aware about the parasitic disease & the consequences thereof; understand their mode of transmission, pathogenesis, control and management.
5	5 <sup>th</sup>	ZOL522J1	<b>ANIMAL ECOLOGY</b>	The course is designed to aware the students about the structure & function of different ecosystems.	The learner will understand structure & function of different ecosystems and will utilize the knowledge in conservation & sustainable development of ecosystems.
		ZOL522J2	<b>CELL &amp; MOLECULAR BIOLOGY</b>	The learner will get the knowledge of cell structure and function, besides understanding the principles of molecular biology.	The learner will develop a deeper understanding of cell structure and functions. Further, learner will get acquainted with how cells operate, communicate and die.



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		ZOL522J3	<b>FUNDAMENTALS OF ENTOMOLOGY</b>	To impart knowledge about morphology, classification, structure & function of insects.	The learner will get insights about the fundamentals of insects science and will utilize the knowledge for 5th identification of insects & understanding the functioning of different organ systems.
6	6th	ZOL622J1	<b>ANIMAL BEHAVIOUR</b>	To develop a deeper understanding of how animals interact with each other and their environment	The learner will understand the behaviour of different animal groups, their communication pattern and their social structure. The knowledge will be utilized to promote animal conservation and improve their well-being
		ZOL622J2	<b>PRINCIPLES OF ANIMAL GENETICS</b>	The learner will understand the principles of genetics.	The learner will get the knowledge of genomics, inheritance, mapping, genetic diseases & human genome project and will utilize the knowledge to elucidate disease mechanisms, gene cloning and the pedigree analysis.
		ZOL622J3	<b>FUNDAMENTALS OF ICHTHYOLOGY</b>	To impart knowledge about the classification and evolution of fishes, modification of various body structures, knowledge about the structure and function of various organs.	Students will benefit from the course's in-depth coverage of the taxonomy of the major fish groups, as well as their evolutionary history, morphology, physiology and anatomy. In particular, the students will learn about the taxonomy and identification of fish, with a focus on local freshwater fish. They will also gain knowledge about the anatomy and physiology of fish.



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7	1 <sup>st</sup> to 3 <sup>rd</sup>		<b>FUNDAMENTALS OF APPLIED ZOOLOGY</b>	<ul style="list-style-type: none"> <li>➤ To aware the students about the nature of parasitic diseases, their mode of transmission and control.</li> <li>➤ To understand the importance of wildlife &amp; its conservation.</li> <li>➤ To understand the role of insects in day-to-day life.</li> <li>➤ To provide basic knowledge about the fisheries &amp; fishery products.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Utilize the knowledge for the prevention/control of parasitic diseases</li> <li>➤ Utilize the knowledge in launching awareness programmes for importance of wildlife in relation to human life and environment.</li> <li>➤ Understand the economic importance of insects and fishes</li> </ul>
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