

• **Department of Zoology**

□ **Course Outcomes.**

□ **F Y B Sc.**

□ **Semester -1**

<b>ZOO-111: Fundamental Anatomy of Non-chordates I</b>	<ul style="list-style-type: none"><li>• Ability to classify the organism at least at phylum level.</li><li>• Distinguishing the anatomy and physiology of different non chordates animals</li><li>• Student learns different characters, classification, anatomy and physiology of non chordates like Prawn.</li></ul>
<b>ZOO-112: Cell biology</b>	<ul style="list-style-type: none"><li>• Able to identifying the type of Cell it's structure, functions.</li><li>• Know the working of different cell organelles.</li><li>• Cell cycle and types of cell division.</li><li>• Cell ageing and cell death.</li></ul>

□ **Semester-2**

<b>ZOO-121: Fundamental Anatomy of chordates I</b>	Students should understand, <ul style="list-style-type: none"><li>• Ability to classify the organism at least at phylum level.</li><li>• Distinguishing the anatomy and physiology of different non chordates and chordate animals</li><li>• Different characters, classification, anatomy and physiology of chordates like Calotes.</li></ul>
<b>ZOO- 122: Applied Zoology</b>	Students should understand, <ul style="list-style-type: none"><li>• Production, rearing of goats in captivity and business of the animals.</li><li>• Identifying the breeds of goats in the vicinity.</li><li>• Production, Rearing and life of animals like goat and lac insect.</li></ul>

• **S Y B Sc.**

• **Semester -1**

<b>ZOO-231: Functional Anatomy of Non-chordates I</b>	Students should understand, <ul style="list-style-type: none"><li>• Ability to classify the organism at least at phylum and class or order level.</li><li>• Distinguishing the anatomy and physiology of different non chordates animals</li><li>• Different characters, classification, anatomy and physiology of non chordates like Sea -star.</li></ul>
<b>ZOO-232: Medical Zoology</b>	Students should understand, <ul style="list-style-type: none"><li>• Prevention of different kind of Pathogenic disease.</li><li>• Identifying Pathogens and finding their control.</li><li>• Study of different kind of Pathogens, their life cycle.</li></ul>

• **Semester -2**

<b>ZOO-241: Functional Anatomy of chordates I</b>	Students should understand, <ul style="list-style-type: none"> <li>• Ability to classify the organism at least at phylum, class or order level.</li> <li>• Distinguishing the anatomy and physiology of different non chordates and chordate animals</li> <li>• Different characters, classification, anatomy and physiology of chordates like Pigeon.</li> </ul>
<b>ZOO- 242: Applied Zoology</b>	Students should understand, <ul style="list-style-type: none"> <li>• Production, rearing of honeybees in captivity and business of the animals.</li> <li>• Identifying the species and castes of honeybees in the vicinity.</li> <li>• Production, Rearing and life of animals like honey bee insect.</li> </ul>

• **T Y BSc.**

• **Semester -1**

<b>Z00-351: Non- chordates-III</b>	<ul style="list-style-type: none"> <li>• Student will come know anatomy and physiology of non -chordates animals</li> <li>• Different characters, classifications, anatomy and physiology.</li> <li>• Job Opportunities- Public Health Department like malaria eradication program.</li> </ul>
<b>Z00-352: Cell and Molecular Biology</b>	Students should understand, <ul style="list-style-type: none"> <li>• Skills-Cell, structure, functions and cell culture.</li> <li>• Working of different cells, cell organelles.</li> <li>• Job Opportunities -Jobs at cell and molecular laboratories.</li> </ul>
<b>Z00-353: Mammalian Histology and Physiology I</b>	Students should understand, <ul style="list-style-type: none"> <li>• Histology and their corresponding Physiology of different tissues and systems of mammals.</li> <li>• Histology and functioning of different tissues and systems of mammals and research importance</li> <li>• Job Opportunities - Biochemistry industry, Pathology lab and cancer research institute etc.</li> </ul>
<b>Z00-354: Biochemistry</b>	Students should understand, <ul style="list-style-type: none"> <li>• Biochemical processes, their reactions and role in life.</li> <li>• Biochemistry and role of biochemical in life system.</li> <li>• Job Opportunities - Biochemical and food industries.</li> </ul>
<b>Z00-355: Systematic, Evolution and Paleontology</b>	Students should understand, <ul style="list-style-type: none"> <li>• Classification of animals, Fossils study and geographical distribution of animals.</li> <li>• Classification of animals, Fossils study and geographical distribution of animals.</li> <li>• Job Opportunities- Zoological Parks, Sanctuaries, Animal museum and Archaeology department</li> </ul>
<b>Z00-356: (C) Public</b>	<ul style="list-style-type: none"> <li>• Study of different kind of Pest and their control .</li> </ul>

<b>health and hygiene</b>	<ul style="list-style-type: none"> <li>• Study of different kind of Pest, their life cycle and their economic importance.</li> <li>• Job Opportunities -Agricultural department, Pesticide industry and Self employment</li> </ul>
<b>ZOO-357: Zoology Practical</b>	
<b>ZOO-358: Zoology Practical</b>	
<b>ZOO-359: Zoology Practical</b>	

**• Semester -2**

<b>ZOO-361: Chordates-III</b>	<ul style="list-style-type: none"> <li>• Ability of classifying of different chordates.</li> <li>• Knowledge- Anatomy and physiology of different chordates.</li> <li>• Job Opportunities -Forest, animal husbandry and museum.</li> </ul>
<b>ZOO-362: General embryology</b>	<p>Students should understand,</p> <ul style="list-style-type: none"> <li>• Development pattern of different animals.</li> <li>• Development of different animals of economic and research importance.</li> <li>• Job Opportunities -Developmental biology and Cell biology Departments, fisheries, Poultry etc.</li> </ul>
<b>ZOO-363: Mammalian Histology and Physiology II</b>	<p>Students should understand,</p> <ul style="list-style-type: none"> <li>• Histology and their corresponding Physiology of different tissues and systems of mammals.</li> <li>• Histology and functioning of different tissues and systems of mammals and research importance</li> <li>• Job Opportunities - Biochemistry, Pathology and cancer research, etc.</li> </ul>
<b>ZOO-364: Research Methodology</b>	<p>Students should understand,</p> <ul style="list-style-type: none"> <li>• Different methods of research.</li> <li>• Scientific basis of various research methods and statistical data analysis.</li> <li>• Job Opportunities - Different research laboratories and surveys.</li> </ul>
<b>ZOO-365: Microtechnique</b>	<p>Student should understand,</p> <ul style="list-style-type: none"> <li>• Preparation of permanent whole mounts, microscopic slides and staining reactions.</li> <li>• Cell-tissue structure, histology of tissues and details of morphology of animals</li> <li>• Job Opportunities -Health institutes, Hospitals and Pathological labs</li> </ul>
<b>ZOO-356: (C) Applied Zoology III (Vermiculture , Poultry and Fishery)</b>	<p>Students should understand,</p> <ul style="list-style-type: none"> <li>• Biofertilizer / vermicompost production, Rearing and production of birds in captivity and business of aquatic animals</li> <li>• Knowledge- Biofertilizer / vermicompost production, Rearing and production of birds and life of aquatic animals.</li> <li>• Job opportunities -Fishery department, poultry business and vermin technology industry, self employment.</li> </ul>
<b>ZOO-367: Zoology Practical</b>	<p>Students should understand,</p> <ul style="list-style-type: none"> <li>•</li> </ul>

<b>ZOO-368: Zoology Practical</b>	Students should understand, • [REDACTED]
<b>ZOO-369: Zoology Practical</b>	• [REDACTED]