

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**Department of Zoology**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO)**

**(A) BCOC/Life long Learning and Extension Education course**

<b>Title of Course B.Sc.</b>	<b>Course Outcomes (Statements)</b>
B.SC.I Sericulture	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To develop an expert manpower to handle the own sericulture units/entrepreneurship/corporate sector unit.</li> <li>2. To give scientific knowledge about mulberry cultivation, silkworm rearing techniques to the students.</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To make the students aware about soil and silk concept, sericulture extension and innovative technology/ techniques etc.</li> <li>2. To train the students in compressive silk production techniques.</li> </ol>

**(B) U.G. Course / Programme (2017-18 and 2018-19)**

<b>Title of Course B.Sc.</b>	<b>Course Outcomes (Statements)</b>
B.SC.I PAPER I (ANIMAL DIVERSITY –I)	<p>Course outcome (Statement)</p> <p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To introduce student to knowledge about animals.</li> <li>2. To develop awareness 9-1 conservation in animal diversity.</li> </ol>
	<p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To awareness students study of animals in groups.</li> <li>2. To study habit, habitat &amp; conservation strategies of animals.</li> </ol>
B.SC.I PAPER II (ANIMAL PHSIOLOGY-I)	<p><b>Knowledge Domain :</b></p> <ol style="list-style-type: none"> <li>1. To introduce the students Knowledge about psychological functions of animal.</li> <li>2. To develop awareness structure function relation in body of animals.</li> </ol>
	<p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To captain roll of organs systems of control mechanism in animal body.</li> <li>2. To introduce bosoms structure their proper functioning mechanism.</li> </ol>
B.SC.I PAPER III (Cell Biology & Evolutionary	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To Devers's &amp; understanding structural functions of cells.</li> <li>2. Tackling ten difficulties in learning evaluation of introduce Environmental studies.</li> </ol>

Biology –I)	
	<p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To captain roll of a understanding cellular components wade to the carry all functionary.</li> <li>2. To introduce research methodology &amp; as an assessment programmer special techniques of evolution.</li> </ol>
B.SC.I PAPER IV (GENETICS)	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To introduce students facts about genetics in human.</li> <li>2. To awareness about dysfunction (mutation) a</li> </ol> <p><b>Skill Domain:</b> It explains how characters from one generation to next generation are transfer in organisms.</p> <ol style="list-style-type: none"> <li>a) It gives idea of characters are under control of genes as well as environmental factor.</li> </ol> <p>It explains how diseases can transfer from parent to offspring</p> <ol style="list-style-type: none"> <li>a) Varity can be apply acquired subject knowledge to enhance, nutrition, agriculture and live stock.</li> <li>b) To develop ability for scientific work and capacity to pursue studies for beyond graduation.</li> <li>c) To develop suitable queries among students for to make society the best Skill Domain: Hybrid, high yielding animal and plant species can be produce by studying genetics</li> </ol> <ol style="list-style-type: none"> <li>3. To captain roll of a understanding cellular components wade to the carry all functionary.</li> <li>4. To introduce research methodology &amp; as an assessment programmer special techniques of evolution.</li> </ol>
B. SC II V: ANIMAL DIVERSITY- II	<p>Knowledge domain</p> <ol style="list-style-type: none"> <li>1.To introduce the students to knowledge about animals characters.</li> <li>2.To develop awareness about conservation of snakes.</li> </ol> <p>Skill domain</p> <ol style="list-style-type: none"> <li>1.To awareness students study of animals in groups.</li> <li>2.Study habit, habitat and conservation, types of snakes with general characters.</li> </ol>
VI BIOCHEMISTRY	<p>Knowledge domain</p> <ol style="list-style-type: none"> <li>1.To introduce the students knowledge about metabolism and heredity material.</li> <li>2.To developed and understand mechanism action and role of enzyme kinetics .</li> </ol> <p>Skill domain</p> <ol style="list-style-type: none"> <li>1.Explain mechanism of biomolecules including amino acids, enzymes and metabolic pathways in human body.</li> <li>2.Awareness about different enzymes performing may of functions associated with life.</li> </ol>
Paper-VII	Knowledge domain

<p>REPRODUCTIVE BIOLOGY</p>	<p>1.To develop awareness the students reproductive health biology. 2.Outline of reproductive system male and female anatomy and histology. Skill domain 1.explain and understand both sexual and asexual reproduction in rat and human 2.To introduce structural and functional changes I reproductive cycles.</p>
<p>VIII-APPLIED ZOOLOGY- I</p>	<p>Knowledge domain 1.To introduce the study of animal relationship, habit and habitat. 2.To develop and management of economics important insects. Skill domain 1.Explaining different host parasite relations and their behavioral activities as well as epidemic diseases. 2.To develop and understand different beneficial, economic skills using insects and animals.</p>
<p><b>B. SC III</b> PAPER - IX FUNCTIONAL ANATOMY OF NON-CHORDATES</p>	<p>Knowledge domain: Students understand basic plan of animal development, their behavior, niche, and their economic importance Skill domain: Develops skill of handling of animal, culturing, rearing, find out of usefulness animals,</p>
<p>PAPER- X BIostatistics, BIOinformatics AND MEDICAL ZOOLOGY.</p>	<p>Knowledge domain: Students understand manipulation zoological data for various purposes, they also know various the methods of analysis of data which is useful for withdrew of conclusion of experiment. Skill domain: students become expert to handle zoological data for various purposes. e.g in research method, assist in policy making.</p>
<p>PAPER –XI MOLECULAR BIOLOGY, BIOTECHNOLOGY AND BIOTECHNIQUES</p>	<p>Knowledge domain: Student understood basic principles of living things, fundamentals biochemical reactions which support life. Skill domain: student develops skill to handle cell and tissues. It gives knowledge of proper functioning of body organs and it systems. It gives idea of proper maintenance of body organs and organ systems. It gives knowledge about various diseases related to human being, its affect on the body and way of transmission, it also gives idea about, physiological disorders of the body</p>
<p>PAPER – XII ENDOCRINOLOGY, ENVIRONMENTAL BIOLOGY AND TOXICOLOGY</p>	<p>Knowledge domain: student understood body regulation mechanism and responses to environmental factors and their changes and its impact on the animals, they also revel the environmental balance, working ecosystems, toxic chemicals and toxicity and its effect on biological world</p>

PAPER- XIII COMPARATIVE ANATOMY OF VERTABRATES	Knowledge domain: Student gets knowledge about anatomical features of the body, its basic plan of development. Skill domain: it develop
PAPER- XIV DEVELOPMENTAL BIOLOGY	Knowledge domain: Students understand process of Gametogenesis, process of fertilization in animals and whole development of Chick embryo also receive knowledge regarding function of Organizer, Placenta, and foetal membrane during embryo development. Skill domain: student develops skill to expose chike embryo. It gives knowledge regarding proper development body organs and its functioning. Student gets proper knowledge regarding embryo culture and permanent slide preparation.
Paper XV Physiology	<b>Knowledge Domain :</b> 3. To introduce the students Knowledge about psychological functions of animal. 4. To develop awareness structure function relation in body of animals.
	<b>Skill Domain:</b> 3. To captain roll of organs systems of control mechanism in animal body. 4. To introduce bosoms structure, their proper functioning mechanism.

Head  
Department of Zoology