



Shri Pandurang Gramin Vikas Pratisthan's
**DILIP WALSE PATIL ARTS, COMMERCE &
SCIENCE COLLEGE**

Nimgaon sava, Tal: Junnar, Dist: Pune 410504

Department of Zoology (S14)

Programs offered: B.Sc. Zoology (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	<u>B.Sc. Zoology</u>	Inspire the students for pursuing higher studies in Zoology and for becoming an entrepreneur and also enable students to get employed in the Biological research Institutes, Industries, Educational Institutes and in the various concerning departments of State and Central Government based on subject Zoology	To provide thorough knowledge about various animal sciences from primitive to highly evolved animal groups. To make the students aware of applications of Zoology subject in various Industries. To highlight the potential of various branches to become an entrepreneur. To equip the students with skills related to laboratory as well as field based studies. To make the students aware about conservation and sustainable use of Biodiversity. To inculcate interest and foundation for further studies in Zoology. To address the socio-economical challenges related to animal sciences. To facilitate students for taking up and shaping a successful career in Zoology.

Courses offered

Sr. No.	Course	Course Outcomes
01	F.Y.B.Sc. Zoology Paper-I Semester-I	<ul style="list-style-type: none"> • The student will be able to understand classify and identify the diversity of animals. • The student understands the importance of classification of animals and classifies them effectively using the six levels of classification.
02	F.Y.B.Sc. Zoology Paper-II Semester-I	<ul style="list-style-type: none"> • The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population. • To understand anticipate, analyse and evaluate natural resource issues and act on a lifestyle that conserves nature. • The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community. • 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.
03	F.Y.B.Sc. Zoology Paper-III Semester-I	<ul style="list-style-type: none"> • Recognize the live forms of vertebrates and invertebrates. • Analyse and describe zoological concepts, including morphology and anatomy.
04	F.Y.B.Sc. Zoology Paper-I Semester-II	<ol style="list-style-type: none"> 1. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life. 2. The working in nature to save environment will help development of leadership skills to promote betterment of environment.
		<ul style="list-style-type: none"> • The learner will understand the importance of cell

05	F.Y.B.Sc. Zoology Paper-II Semester-II	<p>as a structural and functional unit of life.</p> <ul style="list-style-type: none"> • The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development. • The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life. • The cellular mechanisms and its functioning depends on endo-membranes and structures. They are best studied with microscopy
06	F.Y.B.Sc. Zoology Paper-III Semester-II	<p>1. Explain conservation and sustainable use of animals; 2.. Explain and demonstrate the impact that animals have on human society</p>
07	S.Y.B.Sc. Zoology Paper-I Semester-I	<ul style="list-style-type: none"> • The students will be able to understand, classify and identify the diversity of higher vertebrates. • The students will be able to understand the complexity of higher vertebrates • The students will be able to understand different life functions of higher vertebrates.
08	S.Y.B.Sc. Zoology Paper-II Semester-I	<ul style="list-style-type: none"> • The learner understands the basics about beekeeping tools, equipment, and managing beehives. • The learner understands the basic information about fishery, cultural and harvesting methods of fishes and fish preservation techniques.
09	S.Y.B.Sc. Zoology Paper-III Semester-I	<p>1. First-hand knowledge about identification of non- chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates</p>
10	S.Y.B.Sc. Zoology Paper-I Semester-II	<ul style="list-style-type: none"> • The students will be able to understand the linkage among different groups of higher vertebrates. • The student will become aware regarding his role and responsibility towards nature as a protector, to understand his role as a trustee and conservator of life which he has achieved by learning, observing and understanding life.
		<ul style="list-style-type: none"> • The learner understands the biology, varieties of

11	<p align="center">S.Y.B.Sc. Zoology Paper-II Semester-II</p>	<p>silkworms and the basic techniques of silk production.</p> <ul style="list-style-type: none"> • The learner understands the types of agricultural pests, Major insect pests of agricultural importance and Pest control practices.
12	<p align="center">S.Y.B.Sc. Zoology Paper-III Semester-II</p>	<ul style="list-style-type: none"> • Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology • Analyse the relationships among animals, plants and microbes