

Academic Year 2018-19

**B.P.H.E. Society's
Ahmednagar College, Ahmednagar
Internal Quality Assurance Cell
CO, PO, and PSO Attainment Sheet**

Department Name	Zoology
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Program Name	B.Sc.
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Program Outcomes(PO)

PO1	To provide thorough knowledge about various animal sciences from primitive to highlyevolved animal groups.
PO2	To make the students aware of applications of Zoology subject in various industries.
PO3	To highlight the potential of various branches of Zoology to become an entrepreneur.
PO4	To equip the students with skills related to laboratory as well as field based studies.
PO5	To make the students aware about conservation and sustainable use of biodiversity
PO6	To inculcate interest and foundation for further studies in Zoology
PO7	To address the socio-economical challenges related to animal sciences.
PO8	To facilitate students for taking up and shaping a successful career in Zoology.
PO9	
PO10	
PO11	
PO12	

Program Specific Outcome(PSO)

PSO1	To provide thorough knowledge about various animal sciences from primitive to highlyevolved animal groups." To make the students a
PSO2	based studies. To make the students aware about conservation and sustainable use of biodiversity. To i
PSO3	io-economical challenges related to animal sciences. and , facilitate students for taking up and shaping a successful career in Zoology.

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Class		F.Y.B.Sc.	Course Outcomes	Program Outcomes								PSOs		
Subject Code	71510			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Animal Systematics & Diversity		CO1	1	1	1	0	1	1	1	1	1	1	1
Semester No	Annual Pattern		CO2	1	1	0	0	0	1	0	0	1	1	0
Teacher Name	Dr. Rahul Gaikwad		CO3	1	1	0	0	0	1	0	1	1	1	0
Course Outcomes			CO4	1	1	1	0	1	1	0	1	1	1	1
	CO1	The student will be able to understand classify and identify the diversity of animals.	CO5	1	0	0	1	1	1	1	1	1	1	1
	CO2	The student understands the importance of classification of animals.	Average	1.00	0.80	0.40	0.20	0.60	1.00	0.40	0.80	1.00	1.00	0.60
	CO3	To study the various systems in proposed model organisms.												
	CO4	Understanding the importance of diversity in kingdom animalia and focus on economically important animals.												
	CO5	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.												

Class		F.Y.B.Sc.	Course Outcomes	Program Outcomes								PSOs		
Subject Code	71520			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Fundamentals of Cell Biology &		CO1	0	1	0	1	1	1	1	1	1	1	1
Semester No	Annual Pattern		CO2	0	1	0	1	0	1	1	1	1	0	1
Teacher Name	Ms. Anuja Bhalerao		CO3	0	1	1	1	0	1	1	1	1	0	1
Course Outcomes			CO4	0	1	0	1	0	1	0	1	1	0	1
	CO1	genetic inheritance.	CO5	0	1	0	1	0	1	0	1	1	0	1
	CO2	Learning the concepts of gene	Average	0.00	1.00	0.20	1.00	0.20	1.00	0.60	1.00	1.00	0.20	1.00
	CO3	disorders to understand applications of												
	CO4	The learner will understand the												

	CO5	the functioning of cell.	
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Class		F.Y.B.Sc.	Course Outcomes	Program Outcomes								PSOs		
Subject Code	71530			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Practical		CO1	1	1	0	0	1	1	1	1	1	1	1
Semester No	Annual pattern		CO2	1	1	0	0	1	1	0	1	0	1	0
Teacher Name	Dr. Rahul Gaikwad and Ms.		CO3	0	1	1	1	1	1	1	1	1	0	0
Course Outcomes			CO4	0	1	1	1	0	1	0	1	1	1	1
	CO1	classify and identify the diversity of	CO5	0	1	0	1	0	1	0	1	1	0	1
	CO2	classification of animals.	Average	0.40	1.00	0.40	0.60	0.60	1.00	0.40	1.00	0.80	0.60	0.60
	CO3	blood groups in human beings.												
	CO4	laws.												
	CO5	Studying the process of mitosis.												

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Class		SYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	81511	PO1		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	
Subject Name	Animal Systematics and Diversity-III	CO1	3	2	1	1	1	2	1	1	1	1	1	
Semester No	1	CO2	3	2	1	1	1	2	1	1	1	1	1	
Teacher Name	Dr. Avinash Vanjare	CO3	3	3	1	1	1	2	1	1	1	1	1	
Course Outcomes		CO4	3	3	2	2	2	3	2	2	2	2	2	
	CO1	Understanding the taxonomy of organisms	CO5	3	3	2	2	2	3	3	2	2	2	
	CO2	Understanding the diversity of organisms	Average	3.00	2.60	1.40	1.40	1.40	2.40	1.60	1.40	1.40	1.40	
	CO3	Understand morphology, anatomy and physiology of organisms												
	CO4	Understand importance of organisms ecologically and economically												
	CO5	Understand the importance of conservation												

Class		SYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	81521	PO1		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	
Subject Name	Applied Zoology -I	CO1	2	2	1	2	1	1	0	1	2	2	2	
Semester No	1	CO2	1	1	2	2	0	1	1	1	1	1	1	
Teacher Name	Dr. Ivan Aranha	CO3	1	2	1	2	1	1	0	1	1	1	1	
Course Outcomes		CO4	1	1	2	1	0	2	1	1	1	1	1	
	CO1	Introduction to fisheries	CO5	1	1	1	1	0	2	1	1	2	2	
	CO2	Culture methods of freshwater fishes	Average	1.20	1.40	1.40	1.60	0.40	1.40	0.60	1.00	1.40	1.40	
	CO3	Introduction to Pest												
	CO4	Pest control practices												
	CO5	Hazards of pesticides on human												

Class		SYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	81512	PO1		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	
Subject Name	Animal Systematics and	CO1	2	2	1	2	1	1	0	1	2	2	2	
Semester No	2	CO2	1	1	2	2	0	1	1	1	1	1	1	

Teacher Name	Dr. Avinash Vanjare	CO3	1	2	1	2	1	1	0	1	1	1	1
Course Outcomes		CO4	1	1	2	1	0	2	1	1	1	1	1
	CO1	Understanding the taxonomy of organisms	CO5	1	1	1	1	0	2	1	1	2	2
	CO2	Understanding the diversity of organisms	Average	1.20	1.40	1.40	1.60	0.40	1.40	0.60	1.00	1.40	1.40
	CO3	Understand morphology, anatomy and physiology of organisms											
	CO4	Understand importance of organisms ecologically and economically											
	CO5	Understand the importance of conservation											

Class	SYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	81522		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Applied Zoology -II	CO1	2	1	2	1	2	2	2	2	2	1	2
Semester No	2	CO2	1	1	0	1	2	1	1	2	1	2	1
Teacher Name	Dr. Ivan Aranha	CO3	1	2	0	1	2	1	1	1	1	1	1
Course Outcomes		CO4	1	1	2	1	1	1	2	1	1	1	1
	CO1	Introduction to Apiculture	CO5	1	2	0	1	1	1	1	2	2	2
	CO2	Bee keeping	Average	1.20	1.40	0.80	1.00	1.60	1.20	1.40	1.60	1.40	1.40
	CO3	Bee products											
	CO4	Introduction to sericulture											
	CO5	Silk worm rearing											

Class	SYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	81532		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Practical Course	CO1	2	2	1	1	2	1	1	2	2	1	1
Semester No	2	CO2	1	1	2	1	2	1	1	1	1	2	1
Teacher Name	Dr. Ivan Aranha	CO3	1	1	2	1	2	2	1	1	1	1	1
Course Outcomes		CO4	1	1	2	1	2	2	1	2	2	2	2
	CO1	Study and classification Arthropoda, Mollusca, Echinodermata	CO5	1	1	1	1	1	1	1	1	1	1
	CO2	Economic importance of Crustacea, mollusk	Average	1.20	1.20	1.60	1.00	1.80	1.40	1.00	1.40	1.40	1.20
	CO3	Study of economic importance of freshwater fishes											
	CO4	Identification of Poisonous and non-poisonous snakes											
	CO5	Study of modifications of beaks and feet in birds											

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Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91513			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Animal Systematics and Diversity-V		CO1	2	2	1	0	1	3	1	2	2	1	2
Semester No	3		CO2	2	1	1	0	1	3	1	2	2	0	1
Teacher Name	Dr. Rahul Gaikwad		CO3	2	1	1	0	1	3	1	2	2	0	1
Course Outcomes			CO4	2	1	1	0	1	3	1	2	2	0	1
	CO1	The student will be able to understand classify and identify the diversity of animals.	CO5	2	2	1	0	1	3	1	2	2	0	2
	CO2	Study of given model organism with respect to its habit, habitat, Morphology, physiology and various systems.	Average	2.00	1.40	1.00	0.00	1.00	3.00	1.00	2.00	2.00	0.20	1.40
	CO3	Comparative study of various organs in vertebrates.												
	CO4	Study of specialised organs in vertebrates.												
	CO5	Learning systems complexity at organism level to understand anatomical and physiological features.												

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91523			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Mammalian Histology		CO1	2	1	3	2	2	1	3	2	2	1	3
Semester No	3		CO2	3	2	1	3	2	3	1	2	1	3	2
Teacher Name	Mr. D. G. Bhalsing		CO3	1	2	2	1	3	2	2	1	2	2	1
Course Outcomes			CO4	2	3	2	2	1	1	1	3	2	1	2
	CO1	To understand, classify and identify different types of tissues.	CO5	3	1	1	2	2	3	2	1	1	2	3
	CO2	To understand the complexity of various tissues in an organ.	Average	2.20	1.80	1.80	2.00	2.00	2.00	1.80	1.80	1.60	1.80	2.20
	CO3	To learn structure and functions of various tissues.												
	CO4	To understand various diseases related to organs.												
	CO5	To know the role of glands in mammals.												

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91533			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Biological Chemistry		CO1	1	2	2	2	0	3	1	2	3	0	2

Semester No	3	CO2	1	3	3	2	0	3	1	2	3	0	2
Teacher Name	Dr. N. R. Somavanshi	CO3	1	2	2	2	0	3	1	2	3	0	2
Course Outcomes		CO4	1	3	3	3	1	3	2	3	3	1	2
	CO1	CO5	1	3	3	3	0	3	2	3	3	0	2
	CO2	Average	1.00	2.60	2.60	2.40	0.20	3.00	1.40	2.40	3.00	0.20	2.00
	CO3												
	CO4												
	CO5												

Class	TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91543		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Enviornmental Biology and Toxicology	CO1	3	2	3	2	2	3	2	3	3	2	3
Semester No	3	CO2	2	2	2	3	3	2	3	2	2	3	2
Teacher Name	Dr. Ivan Aranha	CO3	2	2	3	2	2	3	3	3	2	3	2
Course Outcomes		CO4	2	3	3	2	2	2	2	2	3	2	3
	CO1	CO5	2	3	2	3	3	2	2	3	3	2	2
	CO2	Average	2.20	2.40	2.60	2.40	2.40	2.40	2.40	2.60	2.60	2.40	2.40
	CO3												
	CO4												
	CO5												

Class	TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91553		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Parasitology	CO1	1	0	0	2	1	1	1	1	1	1	1
Semester No	3	CO2	1	0	0	2	1	1	1	1	1	1	1
Teacher Name	Dr. Pande G S	CO3	1	0	0	2	1	1	1	1	1	1	1
Course Outcomes		CO4	1	0	0	2	1	1	1	1	1	1	1
	CO1	CO5	1	0	0	2	1	1	1	1	1	1	1
	CO2	Average	1.00	0.00	0.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	CO3												
	CO4												
	CO5												

Class	TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	915B3		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Cell Biology	CO1	3	3	2	3	2	2	3	2	3	2	3
Semester No	3	CO2	3	3	3	2	3	2	3	2	2	3	3
Teacher Name	Dr. Balraj Khobragade	CO3	2	2	3	3	3	2	2	3	3	2	2

Course Outcomes		CO4	3	3	2	3	2	3	3	2	2	2	3
CO1	Understand general organisation of a typical cell, sketch and label	CO5	2	2	3	3	3	2	3	2	3	3	2
CO2	Sketch and label various types of cell organelles and explain their structure and function	Average	2.60	2.60	2.60	2.80	2.60	2.20	2.80	2.20	2.60	2.40	2.60
CO3	Explain cell cycle phases and cell division												
CO4	Illustrate the chemistry and organisation of cytoskeleton												
CO5	explain the characteristics of cancer cell and theories of cancer												

Class	TYBSc	Course Outcomes	Program Outcomes								PSOs			
Subject Code	91514		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	
Subject Name	Biological Techniques	CO1	1	2	3	2	1	3	1	3	2	1	3	
Semester No	4	CO2	1	3	3	2	1	3	1	3	3	1	3	
Teacher Name	Dr. Rahul Gaikwad	CO3	1	2	3	2	1	3	1	3	2	1	3	
Course Outcomes		CO4	1	2	3	2	1	3	1	3	2	1	3	
	CO1	of various biomolecules.	CO5	1	3	3	2	0	3	1	3	2	1	3
	CO2	various biochemical techniques.	Average	1.00	2.40	3.00	2.00	0.80	3.00	1.00	3.00	2.20	1.00	3.00
	CO3	techniques and their specific applications.												
	CO4	specific biomolecule from a mixture.												
	CO5	staining of biological samples.												

Class	TYBSc	Course Outcomes	Program Outcomes								PSOs			
Subject Code	91524		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	
Subject Name	Mammalian Physiology and Endocrinology	CO1	3	2	3	2	2	2	2	2	3	3	3	
Semester No	4	CO2	2	2	2	2	2	2	1	3	2	2	2	
Teacher Name	Dr. Ivan Aranha	CO3	3	2	2	2	2	2	1	2	3	3	3	
Course Outcomes		CO4	2	2	3	2	2	2	1	2	2	2	2	
	CO1	Understanding Mammalian Physiology & Endocrinology	CO5	2	2	2	2	2	1	3	3	3	3	
	CO2	Studying Nutrition, Circulation, Respiration	Average	2.40	2.00	2.40	2.00	2.00	2.00	1.20	2.40	2.60	2.60	2.60
	CO3	Study of Excretion, Muscle contraction												
	CO4	Understanding the Nervous excitation												
	CO5	Knowledge of the reproduction process and hormone roles												

Class	TYBSc	Course Outcomes	Program Outcomes								PSOs			
Subject Code	91534		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	
Subject Name	Genetics and Molecular Biology	CO1	1	3	3	3	0	3	2	3	1	0	2	
Semester No	4	CO2	1	3	2	3	0	3	1	3	1	0	2	
Teacher Name	Dr. N.R. Somavanshi	CO3	1	3	2	2	1	3	1	3	1	2	2	
Course Outcomes		CO4	1	3	2	2	1	3	1	3	1	0	2	
	CO1	molecular and genetic events controlling the basic	CO5	1	3	2	2	1	3	2	3	1	0	2
	CO2	its application	Average	1.00	3.00	2.20	2.40	0.60	3.00	1.40	3.00	1.00	0.40	2.00

	CO3	To learn basics of population and human genetics along with its
	CO4	To understand the structure and function of RNA, DNA.
	CO5	To learn the central dogma of cell at molecular level.

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91544			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Organic Evolution		CO1	3	3	2	3	2	2	3	2	2	3	3
Semester No	4		CO2	2	2	2	3	3	3	2	2	3	3	2
Teacher Name	Dr. Balraj Khobragade		CO3	3	2	3	2	2	2	3	3	3	2	3
Course Outcomes			CO4	3	3	3	2	3	2	3	2	2	3	3
	CO1	Explain origin of life and eukaryotic cell	CO5	2	2	3	3	2	2	3	2	2	2	3
	CO2	Explain various theories of evolution	Average	2.60	2.40	2.60	2.60	2.40	2.20	2.80	2.20	2.40	2.60	2.80
	CO3	Understanding the evidences of organic evolution												
	CO4	Develop knowledge of isolation, speciation, geological time-scale and animal distribution.												
	CO5	Information regarding origin and evolution of man												

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91554			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	General Embryology		CO1	1	2	3	1	1	3	2	3	3	1	3
Semester No	4		CO2	1	2	3	1	0	3	1	3	2	1	2
Teacher Name	Ms. Anuja Bhalerao		CO3	1	2	3	2	1	3	1	2	2	1	3
Course Outcomes			CO4	1	2	3	1	0	3	1	3	3	1	2
	CO1	Understanding basic concepts of involved in development of cell communication and regeneration.	CO5	1	2	3	2	0	3	2	2	3	1	2
	CO2		Average	1.00	2.00	3.00	1.40	0.40	3.00	1.40	2.60	2.60	1.00	2.40
	CO3	Understanding the concepts of gametogenesis, fertilisation.												
	CO4	gastrulation.												
	CO5	Studying the chick embryology in detail.												

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91564			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Medical Entomology		CO1	1	0	0	2	1	1	1	1	1	1	1
Semester No	4		CO2	1	0	0	2	1	1	1	1	1	1	1
Teacher Name	Dr. Pande G S		CO3	1	0	0	2	1	1	1	1	1	1	1
Course Outcomes			CO4	1	0	0	2	1	1	1	1	1	1	1
	CO1	The students will be able to learn about basic principles of	CO5	1	0	0	2	1	1	1	1	1	1	1
	CO2	The students will be able to learn about social organization in	Average	1.00	0.00	0.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	CO3	The students will be able to learn about common household insects and their relation to human health.												

	CO4	The students will be able to learn about classification,
	CO5	The students will be able to learn about morphology and anatomy

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91574			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Practicals Paper -I (ZY-331 ,ZY-332,ZY-341 and ZY-342)		CO1	2	1	1	1	2	1	1	2	2	1	2
Semester No	4		CO2	2	1	3	2	1	2	3	2	3	2	1
Teacher Name	Dr. RR Gaikwad, DG Bhalsing, Dr. Ivan Aranha		CO3	1	2	2	1	3	1	2	1	2	1	3
Course Outcomes			CO4	2	2	2	2	2	2	2	1	2	2	2
	CO1	Studying external characters and various systems in model	CO5	2	2	2	2	2	2	2	2	2	1	2
	CO2	Mount tissues like medulated nerve fibre and striated muscle fibre.	Average	1.80	1.60	2.00	1.60	2.00	1.60	2.00	1.60	2.20	1.40	2.00
	CO3	Study permanent histological slides of various tissues.												
	CO4	Preparation of Haemin crystals, to estimate blood glucose												
	CO5	To estimate blood bleeding and clotting time												

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91584			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Practicals Paper -II (ZY-333 ,ZY-334,ZY-343 and ZY-344)		CO1	1	3	2	3	1	3	1	3	2	1	3
Semester No	4		CO2	1	3	2	3	1	3	1	3	3	1	3
Teacher Name	Ms. Anuja Bhaleroa, Dr. Ivan Aranha & Dr. Balraj Khobragade		CO3	2	1	2	1	1	1	2	1	2	2	1
Course Outcomes			CO4	2	2	1	2	2	1	2	2	1	1	2
	CO1	Learning biochemical estimation of carbohydrates, estimating	CO5	3	3	2	3	3	2	2	3	3	2	3
	CO2	biochemical estimation of DNA and RNA, preparation of DNA	Average	1.80	2.40	1.80	2.40	1.60	2.00	1.60	2.40	2.20	1.40	2.40
	CO3	water												
	CO4	To estimate dissolved oxygen and carbon dioxide												
	CO5	Understand morphology and evolution of man and ape, types of												

Class		TYBSc	Course Outcomes	Program Outcomes								PSOs		
Subject Code	91594			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Subject Name	Practicals Paper -III (ZY-335 ,ZY-336,ZY-345 and ZY-346)		CO1	1	1	0	2	1	1	1	1	1	1	1
Semester No	4		CO2	2	2	3	3	3	2	3	2	3	2	2
Teacher Name	Dr. Balraj Khobragade, & Ms. Anuja Bhalerao.. Dr.		CO3	1	2	1	2	1	2	1	3	2	1	3
Course Outcomes			CO4	1	1	0	2	1	1	1	1	1	1	1
	CO1	Students will be able to understand Life cycle, morphology and	CO5											
		control measures of common parasites. To study protozoites of												

	CO2	Detect mitochondria by staining, study different stages of mitosis	Average	1.25	1.50	1.00	2.25	1.50	1.50	1.50	1.75	1.75	1.25	1.75
	CO3	Studying types of eggs, different embryonic stages, whole mounts of												
	CO4	Sufficient will be able to understand relation of insects to human												
	CO5	health. They will practically learn about identification of system												

CO-PO Mapping

		Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
FY	FY	1	71510	1.00	0.80	0.40	0.20	0.60	1.00	0.40	0.80
		2	71520	0.00	1.00	0.20	1.00	0.20	1.00	0.60	1.00
		3	71530	0.40	1.00	0.40	0.60	0.60	1.00	0.40	1.00
SY	SY	1	81511	3.00	2.60	1.40	1.40	1.40	2.40	1.60	1.40
		2	81521	1.20	1.40	1.40	1.60	0.40	1.40	0.60	1.00
		3	81512	1.20	1.40	1.40	1.60	0.40	1.40	0.60	1.00
		4	81522	1.20	1.40	0.80	1.00	1.60	1.20	1.40	1.60
		5	81532	1.20	1.20	1.60	1.00	1.80	1.40	1.00	1.40
TY	TY	1	91513	2.00	1.40	1.00	0.00	1.00	3.00	1.00	2.00
		2	91523	2.20	1.80	1.80	2.00	2.00	2.00	1.80	1.80
		3	91533	1.00	2.60	2.60	2.40	0.20	3.00	1.40	2.40
		4	91543	2.20	2.40	2.60	2.40	2.40	2.40	2.40	2.60
		5	91553	1.00	0.00	0.00	2.00	1.00	1.00	1.00	1.00
		6	91583	2.60	2.60	2.60	2.80	2.60	2.20	2.80	2.20
		7	91514	1.00	2.40	3.00	2.00	0.80	3.00	1.00	3.00
		8	91524	2.40	2.00	2.40	2.00	2.00	2.00	1.20	2.40
		9	91534	1.00	3.00	2.20	2.40	0.60	3.00	1.40	3.00
		10	91544	2.60	2.40	2.60	2.60	2.40	2.20	2.80	2.20
		11	91554	1.00	2.00	3.00	1.40	0.40	3.00	1.40	2.60
		12	91564	1.00	0.00	0.00	2.00	1.00	1.00	1.00	1.00
		13	91574	1.80	1.60	2.00	1.60	2.00	1.60	2.00	1.60
		14	91584	1.80	2.40	1.80	2.40	1.60	2.00	1.60	2.40
		15	91594	1.25	1.50	1.00	2.25	1.50	1.50	1.50	1.75

CO-PO ATTAINMENT

Percentage CO-PO ATTAINMENT

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
0.306667	0.245333	0.122667	0.061333333	0.184	0.306667	0.122667	0.245333
0	0.306667	0.061333	0.306666667	0.061333	0.306667	0.184	0.306667
0.272	0.68	0.272	0.408	0.408	0.68	0.272	0.68
2.04	1.768	0.952	0.952	0.952	1.632	1.088	0.952
0.816	0.952	0.952	1.088	0.272	0.952	0.408	0.68
0.816	0.952	0.952	1.088	0.272	0.952	0.408	0.68
1.008	1.176	0.672	0.84	1.344	1.008	1.176	1.344
1.2	1.2	1.6	1	1.8	1.4	1	1.4
1.36	0.952	0.68	0	0.68	2.04	0.68	1.36
1.496	1.224	1.224	1.36	1.36	1.36	1.224	1.224
0.84	2.184	2.184	2.016	0.168	2.52	1.176	2.016
1.496	1.632	1.768	1.632	1.632	1.632	1.632	1.768
0.84	0	0	1.68	0.84	0.84	0.84	0.84
2.184	2.184	2.184	2.352	2.184	1.848	2.352	1.848
0.84	2.016	2.52	1.68	0.672	2.52	0.84	2.52
2.016	1.68	2.016	1.68	1.68	1.68	1.008	2.016
0.84	2.52	1.848	2.016	0.504	2.52	1.176	2.52
2.184	2.016	2.184	2.184	2.016	1.848	2.352	1.848
0.68	1.36	2.04	0.952	0.272	2.04	0.952	1.768
0.68	0	0	1.36	0.68	0.68	0.68	0.68
1.512	1.344	1.68	1.344	1.68	1.344	1.68	1.344
1.512	2.016	1.512	2.016	1.344	1.68	1.344	2.016
1.05	1.26	0.84	1.89	1.26	1.26	1.26	1.47

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
30.66667	30.66667	30.66667	30.66667	30.66667	30.66667	30.66667	30.66667
#DIV/0!	30.66667	30.66667	30.66667	30.66667	30.66667	30.66667	30.66667
68	68	68	68	68	68	68	68
68	68	68	68	68	68	68	68
68	68	68	68	68	68	68	68
68	68	68	68	68	68	68	68
84	84	84	84	84	84	84	84
100	100	100	100	100	100	100	100
68	68	68	#DIV/0!	68	68	68	68
68	68	68	68	68	68	68	68
84	84	84	84	84	84	84	84
68	68	68	68	68	68	68	68
84	#DIV/0!	#DIV/0!	84	84	84	84	84
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84
68	68	68	68	68	68	68	68
68	#DIV/0!	#DIV/0!	68	68	68	68	68
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84
84	84	84	84	84	84	84	84

CO-PSO MAPPING

	Course	PSO1	PSO2	PSO3
1	71510	1.00	1.00	0.60
2	71520	1.00	0.20	1.00
3	71530	0.80	0.60	0.60
1	81511	1.40	1.40	1.40
2	81521	1.40	1.40	1.40
3	81512	1.40	1.40	1.40
4	81522	1.40	1.40	1.40
5	81532	1.40	1.40	1.20
1	91513	2.00	0.20	1.40
2	91523	1.60	1.80	2.20
3	91533	3.00	0.20	2.00
4	91543	2.60	2.40	2.40
5	91553	1.00	1.00	1.00
6	915B3	2.60	2.40	2.60
7	91514	2.20	1.00	3.00
8	91524	2.60	2.60	2.60
9	91534	1.00	0.40	2.00
10	91544	2.40	2.60	2.80
11	91554	2.60	1.00	2.40
12	91564	1.00	1.00	1.00
13	91574	2.20	1.40	2.00
14	91584	2.20	1.40	2.40
15	91594	1.75	1.25	1.75

CO-PSO ATTAINMENT

	Course	PSO1	PSO2	PSO3
	71510	0.306667	0.306667	0.184
	71520	0.306667	0.061333	0.306667
	71530	0.544	0.408	0.408
	81511	0.952	0.952	0.952
	81521	0.952	0.952	0.952
	81512	0.952	0.952	0.952
	81522	1.176	1.176	1.176
	81532	1.4	1.4	1.2
	91513	1.36	0.136	0.952
	91523	1.088	1.224	1.496
	91533	2.52	0.168	1.68
	91543	1.768	1.632	1.632
	91553	0.84	0.84	0.84
	915B3	2.184	2.016	2.184
	91514	1.848	0.84	2.52
	91524	2.184	2.184	2.184
	91534	0.84	0.336	1.68
	91544	2.016	2.184	2.352
	91554	1.768	0.68	1.632
	91564	0.68	0.68	0.68
	91574	1.848	1.176	1.68
	91584	1.848	1.176	2.016
	91594	1.47	1.05	1.47

Percentage CO-PSO ATTAINMENT

	Course	PSO1	PSO2	PSO3
	71510	30.66667	30.66667	30.66667
	71520	30.66667	30.66667	30.66667
	71530	68	68	68
	81511	68	68	68
	81521	68	68	68
	81512	68	68	68
	81522	84	84	84
	81532	100	100	100
	91513	68	68	68
	91523	68	68	68
	91533	84	84	84
	91543	68	68	68
	91553	84	84	84
	915B3	84	84	84
	91514	84	84	84
	91524	84	84	84
	91534	84	84	84
	91544	84	84	84
	91554	68	68	68
	91564	68	68	68
	91574	84	84	84
	91584	84	84	84
	91594	84	84	84

FY

SY

TY