

Progressive Education Society's
**Modern College of Arts, Science and Commerce,
Shivajinagar, Pune 5**

Framework of Syllabus

For M. Sc. Zoology

(2019-20 Course)

(with effect from 2019-20)

CIA: Continuous Internal Evaluation

Semester 1 (Part 1)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScZooP101	Biochemistry and Metabolic Pathways	4	4	50	50	100
CCT-2	19ScZooP102	Cell Biology and Genetics	4	4	50	50	100
CCT-3	19ScZooP103	Endocrinology and Fresh Water Zoology	4	4	50	50	100
DSET-1	19ScZooP104	Biostatistics & Biochemical Techniques	4	4	50	50	100
DSET-1	19ScZooP105	Biostatistics and Ichthyology	4	4	50	50	100
CCP-1	19ScZooP106	Practical Lab – 1	4	4	50	50	100
AECCT-1	19CpCysP101	Cyber Security-I	1	1	-	-	25
AECCT-2	19CpHrtP102	Human Rights-I	1	1	-	-	25
Total				20			

Semester II (Part 1)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScZooP201	Molecular biology and r-DNA technology	4	4	50	50	100
CCT-2	19ScZooP202	Developmental biology and Immunology	4	4	50	50	100
CCT-3	19ScZooP203	Basic Entomology and Skills in Scientific communication and writing	4	4	50	50	100
DSET-2	19ScZooP204	Bioinformatics and Fundamentals of Systematics	4	4	50	50	100
DSET-2	19ScZooP205	Bioinformatics and Economic Zoology	4	4	50	50	100
CCP-1	19ScZooP206	Practical Lab – 2	4	4	50	50	100
AECCT-3	19CpCysP201	Cyber Security-II	1	1	-	-	25
AECCT-4	19CpHrtP202	Human Rights-II	1	1	-	-	25
Total				20			

Semester III (Part 2)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScZooP301	Entomology I and Insect Physiology and Biochemistry	4	4	50	50	100
CCT-2	19ScZooP302	Evolution and Ecology	4	4	50	50	100
CCT-3	19ScZooP303	Comparative Animal Physiology and Mammalian Reproductive Physiology	4	4	50	50	100
DSET-3	19ScZooP304	Parasitology and Research Project	4	4	50	50	100
DSET-3	19ScZooP305	Pollution Biology and Research Project					
CCP-1	19ScZooP306	Practical Lab – 3	4	4	50	50	100
AECCT-5	19CpCysP301	Cyber Security-III	1	1	-	-	25
AECCT-6	19CpSkdP302	Skill Development-I	2	2	-	-	50
Total				20	250	250	500

Semester IV (Part 2)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScZooP401	Entomology II and Biodiversity	4	4	50	50	100
CCT-2	19ScZooP402	Bacterial and Phage Genetics and Histology and Histochemistry	4	4	50	50	100
CCT-3	19ScZooP403	Genetic Toxicology and Animal Tissue Culture	4	4	50	50	100
DSET-4	19ScZooP404	Animal Biotechnology and Research Project	4	4	50	50	100
DSET-4	19ScZooP405	Forensic Science and Research Project	4	4	50	50	100
CCP-1	19ScZooP406	Practical Lab – 4	4	4	50	50	100
AECCT-5	19CpCysP401	Cyber Security-III	1	1	-	-	25
AECCT-6	19CpSkdP402	Skill Development-I	2	2	-	-	50
Total				20	250	250	500