



Progressive Education Society's  
Modern College of Arts, Science and Commerce (Autonomous)  
Ganeshkhind, Pune - 16

**Course Structure for NEP**

Name of the Board: Department of Zoology (PG- M.Sc-I)

Class	Sem	Course Type	Sr. No.	Course Code	Course Name	Theory/ Practical	No. of Credits	No. of Hours	Total Marks	CIE Marks	ESE Marks	Remark
M.Sc-I	I	Major DSC	1	ZOO51101	Biochemistry and biotechniques	Theory	04	60L	40	60	100	
		Major DSC	2	ZOO51102	Cell and Developmental Biology	Theory	04	60L	40	60	100	
		Major DSC	3	ZOO51103	Advanced Genetics	Theory	02	30L	20	30	50	
		Major DSC	4	ZOO51104	Scientific Communication	Theory	02	30L	20	30	50	
		Major DSC	5	ZOO51105	Practicals in Biochemistry, Biotechniques, Advanced Genetics and Scientific Communication	Practical	02	15P	20	30	50	
		Major elective	6	ZOO51201	Environmental Biotechnology	Theory	02	30L	20	30	50	
		<b>Major elective</b>	<b>7</b>	<b>ZOO51202</b>	Practicals in Cell, Developmental Biology and Environmental Biotechnology	<b>Practical</b>	<b>02</b>	<b>15P</b>	<b>20</b>	<b>30</b>	<b>50</b>	





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		RM	8	ZOO51301	Research Methodology	Theory	02	30L	20	30	50	
				ZOO51302	Research Methodology	Practical	02	15P	20	30	50	
		Semester I					No. of credits: 22		Total CIE marks 220	Total ESE marks 330	Total marks 550	
M.Sc-I	II	Major DSC	9	ZOO52101	Molecular Biology and Bioinformatics	Theory	04	60L	40	60	100	
		Major DSC	10	ZOO52102	Endocrinology and Comparative Animal Physiology	Theory	04	60L	40	60	100	
		Major DSC	11	ZOO52103	Parasitology	Theory	02	30L	20	30	50	
		Major DSC	12	ZOO52104	Toxicology	Theory	02	30L	20	30	50	
		Major DSC	13	ZOO52105	Practicals in Molecular Biology, Bioinformatics, Parasitology and Toxicology	Practical	02	15P	20	30	50	
		Major elective	14	ZOO52201	Fishery Science	Theory	02	30L	20	30	50	
		Major elective	15	ZOO52202	Practicals in Endocrinology, Comparative Animal	Practical	02	15P	20	30	50	



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					Physiology and Fishery Science								
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		OJT/FP	16	ZOO52401	On job training	Practical	04	30P	40	60	100	
		<b>Semester II</b>					<b>No. of credits: 22</b>		<b>Total CIE marks 220</b>	<b>Total ESE marks 330</b>	<b>Total marks 550</b>	



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Class	Sem	Course Type	Sr. No.	Course Code	Course Name	Theory/ Practical	No. of Credits	No. of Hours	Total Marks	CIE Marks	ESE Marks	Remark
M.Sc-II	III	Mandatory Major	1	ZOO63101	Entomology	Theory	04	60L	40	60	100	
		Mandatory Major	2	ZOO63102	Systematics and Evolutionary Biology	Theory	04	60L	40	60	100	
		Mandatory Major	3	ZOO63103	Aquaculture	Theory	04	60L	40	60	100	
		Mandatory Major	4	ZOO63104	Practicals in Entomology, Systematics and Evolutionary Biology	Practical	02	15P	20	30	50	
		Major Elective	5	ZOO63201	Immunology	Theory	02	30L	20	30	50	
		Major Elective	6	ZOO63202	Practicals in Aquaculture and Immunology	Practical	02	15P	20	30	50	
		RP	7	ZOO63501	Research project	Practical	04	30P	40	60	100	
		<b>Semester III</b>					<b>No. of credits: 22</b>		<b>Total CIE marks 220</b>	<b>Total ESE marks 330</b>	<b>Total marks 550</b>	



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M.Sc- II	IV	Mandatory Major	8	<b>ZOO64101A</b>	Advanced Entomology	Theory	04	60L	40	60	100	
		Mandatory Major	9	<b>ZOO64102</b>	Mammalian Reproductive Physiology	Theory	04	60L	40	60	100	
		Mandatory Major	10	<b>ZOO64103</b>	Biostatistics	Theory	02	30L	20	30	50	
		Mandatory Major	11	<b>ZOO64104</b>	Practicals in Advanced Entomology and Biostatistics	Practical	02	15P	20	30	50	
		Major Elective	12	<b>ZOO64201</b>	Histology and Histochemistry	Theory	02	30L	20	30	50	
		Major Elective	13	<b>ZOO64202</b>	Practicals in Mammalian Reproductive Physiology, Histology and Histochemistry	Practical	02	15P	20	30	50	
		<b>RP</b>	14	<b>ZOO64501</b>	Research project	Practical	06	45P	60	90	150	
		<b>Semester IV</b>					<b>No. of credits: 22</b>		<b>Total CIE marks 220</b>	<b>Total ESE marks 330</b>	<b>Total marks 550</b>	