Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004

Department of Zoology

Choice Based Credit System [CBCS]



SYLLABUS

M.Sc. ZOOLOGY

(I, II, III and IV semester)

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Department of Zoology M. Sc.First Year (Semester – I)

Course	Theory cours	se						
	Paper code	Paper nomenclature Credit Work Load hr		Load hrs	Max/Min			
						Per	Per	Marks
						week	term	
Core	J		and	4		4	60	100/40
Course		Animal Diversity						
	ZOO-402	Ecology		4		4	60	100/40
	ZOO-403	Biochemistry		4		4	60	100/40
Research	ZOO-404	Research		2		2	30	50/20
component		Methodology						
Elective	ZOO-421	Helminthology -	I	4		4	60	100/40
Courses (ANY ONE)	ZOO-422	Protozoology – I		4		4	60	100/40
ONE)	ZOO-423	Entomology – I		4		4	60	100/40
	ZOO-424	Endocrinology - I		4		4	60	100/40
Compulsory course			ndia	2		2	30	50/20
000150		Total Credit		20		20	300	500/200
Practical course								
Paper code	Paper code Practical		Cree	dit	dit Work Loa		hrs	Max./Min
				Per		week	per	Mark
						WCCK	Term	
							Term	
ZOO -441	Practical based	on ZOO-401	2		4		60	50/20
ZOO-442	Practical based	on ZOO-402	2		4		60	50/20
200112								0.07
ZOO-443	Practical based	on ZOO-403	2		4		60	50/20
ZOO-444	Practical based	on ZOO- 421	2		4		60	50/20
700 445	A45 D : 11 1 700 122		2	+	4		60	50/20
ZOO-445	Practical based on ZOO-422		2		4		60	50/20
ZOO-446	Practical based on ZOO-423		2		4		60	50/20
ZOO-447	Practical based	on ZOO-424	2		4		60	50/20
	Total Credit		8		16		240	200

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad **Department of Zoology**

M. Sc. Ist Year Semester – II

Course	Theory cours	se				
	Paper code	Paper nomenclature	Credit	Work Load hrs		Max/Min Marks
				Per week	Per term	
Core Course	Z00-411	General Animal Physiology	4	4	60	100/40
	ZOO-412	Genetics	4	4	60	100/40
	ZOO-413	Cell Biology	4	4	60	100/40
Research Component	Z00-414	Scientific Writing	2	2	30	50/20
Elective	ZOO-431	Helminthology – II	4	4	60	100/40
Courses (Any ONE)	ZOO-432	Protozoology – II	4	4	60	100/40
	ZOO-433	Entomology – II	4	4	60	100/40
	ZOO-434	Endocrinology - II	4	4	60	100/40
		Total Credit	18	18	270	450/180
	Practical	course		1		
Paper code	Practicals		Credits	Work Load hrs		Max./Min Mark
				Per week	Per Term	- Wark
ZOO-451	Practical based	on ZOO-411	2	4	60	50/20
ZOO-452	Practical based	Practical based on ZOO-412		4	60	50/20
ZOO-453	Practical based on ZOO-413		2	4	60	50/20
ZOO-454	Practical based	Practical based on ZOO- 431		4	60	50/20
ZOO-455	Practical based on ZOO-432		2	4	60	50/20
ZOO-456	Practical based	Practical based on ZOO-433		4	60	50/20
ZOO-457	Practical based	on ZOO-434	2	4	60	50/20
Total Credit			8	16	240	200/80

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M. Sc. Second year (Semester – III)

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Course			Theor	ry course			
_	Paper code Paper nomenclature		Credit	Work Load hrs		Max/Min	
					Per week	Per term	Marks
Core Course	ZOO-501	Development	al Biology	4	4	60	100/40
Course	ZOO-503	Fundamental	processes	4	4	60	100/40
Elective	ZOO-521	Fishery Sc	eience I	4	4	60	100/40
Courses (ANY	ZOO-522	Animal Physi Inverteb	•	4	4	60	100/40
ONE)	ZOO-523	Molecular B	iology- I	4	4	60	100/40
	ZOO-524	Applied Para	sitology-I	4	4	60	100/40
Research Component	ZOO-502	Quantitative	biology	4	4	60	100/40
•		Project W	ork**	4	4	60	Evaluated inIVthSem.
Service	ZOO-580	Apiculture		4	4	60	100/40
courses* (ANY ONE)	ZOO-581	Personality Development		4	4	60	100/40
	ZOO-582	Piscicul	lture	4	4	60	100/40
	ZOO-583	Sericul		4	4	60	100/40
	ZOO-584	Wild life & interpret		4	4	60	100/40
		Total C		24	24	360	500/200
			actical cour				
Paper code	Prac	Practicals		Work Load hrs		Max./Min Mark	
				Per week	Per Term	-	
ZOO-541	Practicals based on ZOO-501 Developmental Biology		2	4	60	50/20	
ZOO-542 (Research Component)	Practicals based on ZOO-502 Quantitative biology		2	4	60	50/20	
ZOO-543	Practicals based on ZOO-503 Fundamental processes		2	4	60	50/20	
ZOO-544	Practicals based on zoo-521 Fishery Science I		2	4	60	50/20	
ZOO-545	Practicals based on ZOO-522 Animal Physiology I		2	4	60	50/20	
ZOO-546		ed on ZOO-523	2	4	60	50/20	
ZOO-547	Practicals base	ed on ZOO-524	2	4	60	50/	/20
	i		1	1		i	

^{*} Service course as decision of University and ** project work allotted

200/80

Total Credit

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Department of Zoology

M. Sc. Second year (Semester – IV)

Course	Theory co		Second ye		•			
Course	Paper code		nclature	Cre	edit Work Lo	Work Load hrs		
	^	1			Per weel	Per	Marks	
						term		
Core	ZOO-511	Evolution	and Anim	al 4	4	60	100/40	
Course		behavior						
	ZOO-513	Applied Zoo	logy	4	4	60	100/40	
Elective	ZOO-531	Fishery Scie	nce –II	4	4	60	100/40	
Courses (Any ONE)	ZOO-532	Animal Phy (Vertebrates	ysiology –)	II 4	4	60	100/40	
	ZOO-533	Molecular B	iology - II	4	4	60	100/40	
	ZOO-534	Applied Para	asitology – II	4	4	60	100/40	
Research ZOO-512 Component		Methods in I	Methods in Biology		4	60	100/40	
		Total Credit		16	16	240	400/160	
Practical co				•		.		
Paper code	Practi	cals	Credits		Vork Load hrs		Max./Min Mark	
				Per we	eek Per Term			
ZOO-551	Practi ZOO-		2	4	60	50/20	50/20	
ZOO-552 (Resea			2	4	60	50/20	50/20	
Component)	ZOO-			4	60	50/20		
ZOO-553	ZOO-		2	4	60	30/20	30/20	
ZOO-554	Practi ZOO-	cal based on 531	2	4	60	50/20		
ZOO-555	Practi ZOO-		2	4	60	50/20		
ZOO-556 Pr		cal based on 533	2	4	60	50/20		
ZOO-557	Practi ZOO-		2	4	60	50/20		
Research								
Component * ZOO- 561	Projec	t work**	4	4	120	100/4	0	
	Total	Credit	12	20	360	300/1	20	

^{**} ZOO-561 is a Project work of Research component. It shall start in 3rd semester after allocation of guide/supervisor and all students will submit it in 4th semester and evaluated accordingly.

Total Credits required obtaining M. Sc. Degree in Zoology

Se	Component	Theory	Practical	Total credits	
me		Credits	Credits		
ster					
I	Core	12	6	18	28
	Elective	4	2	6	
	Research	2		2	
	Constitution of India	2#	-	2#	
II	Core	12	6	18	26
	Elective	4	2	6	
	Research	2	-	2	
III	Core	8	4	12	32
	Elective	4	2	6	
	Research	4	2+4(Project**)	10	
	Service Course*	4*		4*	
IV	Core	8	4	12	28
	Elective	4	2	6	
	Research	4	2+4(Project**)	10	
	Total credits Sem. I+II+II+IV	74	40	114	114

[#] Constitution of India to be conducted centrally

^{*} At least one service course from any other department

^{**} Project work will start in IIIrd semester, completed and evaluated in IVth Semester End.