

Madras Christian College, Dept. of Zoology : B. Sc.(vi) Zoology Curriculum for students admitted from 2008-09 onwards													
Semes	Paper	Title	Hrs	Credit	CA	ESE	Sem	Pape	Title	Hrs	Credit	CA	ESE
I	1	PART I - Tamil	4	3	50	50	II	7	PART I - Tamil	4	3	50	50
	2	PART II - English	4	3	50	50		8	PART II - English	4	3	50	50
	3	PART III a. MAJOR -Animal Life I	6	5	50	50		9	PART III a. MAJOR -Animal Life II	6	5	50	50
	4	-Microbiology	4	5	50	50		10	- Animal Life & Microbiology Practical	4	5	50	50
	5	PART III c. ALLIED – I – Botany I (Zoology I)	4	3	50	50		11	PART III c. ALLIED – I - Botany II (Zoology II)	4	3	50	50
		- Practical	2	2	--	--		12	- Practical	2	2	50	50
	6	PART IV a. BT/AT/NM –(Biotechnology & Ethics)	4	2	50	50	13	PART IV a. BT/AT/NM	4	2	50	50	
		PART IV d. VALUE EDUCATION	2	1	--	--	14	PART IV d. VALUE EDUCATION	2	1	50	50	
III	15	PART I - Tamil	4	3	50	50	IV	21	PART I - Tamil	4	3	50	50
	16	PART II - English	4	3	50	50		22	PART II - English	4	3	50	50
	17	PART III a. MAJOR -Cell Biology & Dev. Biology	6	5	50	50		23	PART III a. MAJOR - Mole. Bio & Molecular Genetics	6	5	50	50
	18	Endocrinology	4	5	50	50		24	Cytogenetics +Develop.Bio &Endocrinology Prac	2+2	5	50	50
	19	PART III c. ALLIED II – Biochemistry I	4	3	50	50		25	PART III c. ALLIED – II – Biochemistry II	4	3	50	50
		Practical	2	2	--	--		26	Practical	2	2	50	50
		PART IV b.SKILL BASED -Personality Development	2	--	--	--	27	PART IV b.SKILL BASED -Personality Development	2	3	100	--	
	20	PART IV b. Inter Disciplinary– Wild Life Management	4	3	50	50	28	PART IV c. Environmental Studies	4	3	50	50	
V		PART III a. MAJOR					VI		PART III a. MAJOR				
	29	Biotechnology	5	4	50	50		35	Animal Physiology & Immunology	7	5	50	50
	30	Biophysics, Evolution & Animal Behavior 2+2+2	6	4	50	50		36	Environmental Biology & Biodiversity	7	4	50	50
	31	Bioinformatics, Biostatistics	5	4	50	50		37	Animal Physiology, Immunology and Environmental Biology & Biodiversity Practical	2+2 +2	4	50	50
	32	Biotechnology, Bioinformatics, Pract	2+2	4	50	50			PART III b. ELECTIVES				
		PART III b. ELECTIVES						38	a)Agricultural Entomology / Seri-biotechnology	3	3	50	50
		a)Agricultural Entomology / Seri-biotechnology	2	2	--	--		39	b)Bioprocess Engineering & Technology / Vermitechnology	3	3	50	50
		b)Bioprocess Engineering & Technology / Vermitechnology	2	2	--	--		40	c) On-site Training of (a) & (b)	2+2	2+2	50	50
	33	PART IV b. SKILL BASED –(Vermiculture)	4	2	50	50			V –EXTENSION ACTIVITIES –	--	1		
	34	PART IV b. SKILL BASED-Computer Basics	2	3	50	50							

Part V – Extension Activities:- Service Learning-2Hrs./Physical Education-2Hrs./Dept. Assn. activity-1Hr/NCC-1Hr./NSS-Hr./Sports-Hr/Scrub Society-1Hr.

Part III a. Major 15 courses 70 credits

Part III b. Electives 3courses 15 credits

Part III c Allied 4 courses 20 credits

Madras Christian College, Dept. of Zoology : B. Sc.(vi) Vocational Industrial Fish & Fisheries - Curriculum for students admitted from 2008-09 onwards													
Semes	Paper	Title	Hrs	Credit	CA	ESE	Sem	Pape	Title	Hrs	Credit	CA	ESE
I	1	PART I - Tamil	4	3	50	50	II	7	PART I - Tamil	4	3	50	50
	2	PART II - English	4	3	50	50		8	PART II - English	4	3	50	50
	3	PART III a. MAJOR -Animal Life I	6	5	50	50		9	PART III a. MAJOR -Animal Life II	6	5	50	50
	4	-Microbiology	4	5	50	50		10	- Animal Life & Microbiology Practical	4	5	50	50
	5	Part III b. Elective - Vocational- Fish Biology Theory + Practical	4+2	4	50	50		11	Part III b. Elective - Vocational- Capture Fisheries Theory+ Practical	4+2	4	50	50
	6	PART IV a. BT/AT/NM -(Biotechnology & Ethics)	4	2	50	50		12	PART IV a.BT/AT/NM	4	2	50	50
		PART IV d. VALUE EDUCATION	2	1	--	--	13	PART IV d. VALUE EDUCATION	2	1	50	50	
III	14	PART I - Tamil	4	3	50	50	IV	21	PART I - Tamil	4	3	50	50
	15	PART II - English	4	3	50	50		22	PART II - English	4	3	50	50
	16	PART III a. MAJOR -Cell Biology & Dev. Biology	6	5	50	50		23	PART III a. MAJOR - Molecular Biology & Genetics	6	5	50	50
	17	Endocrinology	4	5	--	--		24	Cytogenetics +Develop.Bio &Endocrinology Prac	2+2	5	50	50
	18	PART III c. ALLIED II – Biochemistry I	4	3	50	50		25	PART III c. ALLIED – II – Biochemistry II	4	3	50	50
		Practical	2	2	--	--		26	Practical	2	2	--	--
19	PART IV b.SKILL BASED -Personality Development	2	--	--	--	27	PART IV b.SKILL BASED -Personality Development	2	3	100	--		
20	Part III b. Elective Vocational- Aquaculture Theory + Practical	4+2	4	50	50	28	PART IV c. Environmental Studies	4	2	50	50		
V		PART III a. MAJOR					VI		PART III a. MAJOR				
	29	Biotechnology	5	4	50	50		36	Animal Physiology & Immunology	7	5	50	50
	30	Biophysics, Evolution & Animal Behavior 2+2+2	6	4	50	50		37	Environmental Biology & Biodiversity	7	4	50	50
	31	Bioinformatics, Biostatistics	5	4	50	50		38	Animal Physiology, Immunology & Environmental Biology & Biodiversity Practical	2+2 +2	4	50	50
	32	Biotechnology, Bioinformatics, Pract	2+2	4	50	50			PART III b. ELECTIVES - Vocational				
	33	Fish Diseases & Post Harvest Technology The + Prac	4+2	4	50	50		39	Aquarium Science Theory + Practical	4+2	5	50	50
34	Part IV b.SKILL BASED Entrepreneurship program	4	3			40	Fish Biotechnology Theory + Practical	4+2	5	50	50		
35	PART IV b. SKILL BASED-Computer Basics	2	3	50	50	41	V –EXTENSION ACTIVITIES –	--	1				

Part V – Extension Activities:- Service Learning-2Hrs./Physical Education-2Hrs./Dept. Assn. activity-1Hr/NCC-1Hr./NSS-Hr./Sports-Hr/Scrub Society-1Hr.

Part III a. Major 15 courses 70 credits

Part III b Electives 6 courses 25 credits

Part IIIc Allied 3 courses 10 credits

MADRAS CHRISTIAN COLLEGE (Autonomous) M. Sc. (vi) Zoology CBCS Curriculum for students admitted from 2008-09													
Sem	Paper	Ttitle	Hrs	Credit	CA	ESE	Sem	Paper	Title	Hrs	Credit	CA	ESE
MAJOR – CORE							MAJOR - CORE						
I	1	Animal Phylogeny	6	4	50	50	II	5	Bioinformatics, Biostatistics	5	4	50	50
	2	Biophysics & Nanotechnology	7	4	50	50		6	General & Applied Entomology	6	4	50	50
	3	Molecular Biology & Molecular Genetics	7	4	50	50		7	Research Methodology	4	4	50	50
	4	Pra I – Animal Phylogeny, Molecular Biology, Molecular Genetics	4+3+3	5	50	50		8	Developmental Biology	5	4	50	50
							9	Pra II Bioinformatics + Biostatistics, Developmental Biology, Entomology	3+2+3	5	50	50	
								Soft Skill	2				
MAJOR - CORE							MAJOR - CORE						
III	10	Animal Physiology & Biochemistry	6	4	50	50	IV	14	Biotechnology	6	4	50	50
	11	Microbiology & Immunology	6	4	50	50		15	Molecular Endocrinology	5	4	50	50
	12	Environmental Biology & Biodiversity	6	4	50	50		16	Pra IV – Biotechnology & Endocrinology	3+3	4	50	50
	13	Pra III- Animal Physiology, Biochemistry, Environmental Biology+ Biodiversity, Microbiology, Immunology	2+2+2+2	5	50	50							
		Soft Skill	2										
								MAJOR-ELECTIVES					
							17	Animal Behavior / Aquaculture	4	5	50	50	
							18	Teaching Zoology / Medical Lab Technique	4	5	50	50	
							19	Pra V Animal Behavior /Aquaculture	2	5	50	50	
							20	Pra VI Teaching Zoology / Medical Lab Technique	3	5	50	50	
							21	Dissertation	3	----	100		

MAJOR ELECTIVES – 2 theory + 2 practical

13 hrs – 20 credits - Semester IV

MAJOR CORE – 12 theory + 4 practical + 1 dissertation

103 hrs – 70 credits - Semester I, II, III, IV

Soft Skill

4 hrs

120 hrs - 90 credits.