



SEETHALAKSHMI RAMASWAMI COLLEGE

(Autonomous)

Affiliated to Bharathidasan University
Tiruchirappalli

Accredited with A+ by NAAC (4th Cycle)



B.Sc. Zoology

CBCS - OBE Curriculum Structure

(For students admitted from 2024 onwards)

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
I	I	Language - I		Course – I	6	3	EXT	25	75	100
	II	English - I		Course – I	6	3	EXT	25	75	100
	III	Core Course - I		Invertebrate Biology	7	6	EXT	25	75	100
	III	Core Practical - I		Practical-I:Invertebrate and Chordate Biology	3	-	INT	-	-	-
	III	First Allied Course - I		Offered by the Dept. of Chemistry	4	3	EXT	25	75	100
	III	First Allied Practical		Practical I: Offered by the Dept. of Chemistry	2	-	INT	-	-	-
	IV	VBE		Value Based Education	2	2	EXT	25	75	100
	TOTAL					30	17			
		EXTRA CREDIT COURSE		Communicative and Functional English offered by Department of English (MANDATORY)	2	2	INT	25	75	100
II	I	Language - II		Course – II	6	3	EXT	25	75	100
	II	English - II		Course – II	6	3	EXT	25	75	100
	III	Core Course - II		Chordate Biology	7	6	EXT	25	75	100
	III	Core Practical - I		Practical-I:Invertebrate and Chordate Biology	3	4	INT	40	60	100
	III	First Allied Course - II		Offered by the Department of Chemistry	4	3	EXT	25	75	100
	III	First Allied Practical		Practical I: Offered by the Department of Chemistry	2	3	INT	40	60	100
	IV	EVS		Environmental Studies	2	2	EXT	25	75	100
	TOTAL					30	24			

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
III	I	Language - III		Course – III	6	3	EXT	25	75	100	
	II	English - III		Course – III	6	3	EXT	25	75	100	
	III	Core Course - III		Concepts of Ecology	6	6	EXT	25	75	100	
	III	Core Practical - II		Practical-II:Concepts of Ecology, Organic Evolution and Developmental Biology	2	-	INT	-	-	-	
	III	Second Allied Course - I		Offered by the Department of Botany	4+2 / 4	3	EXT	25	75	100	
	III	Second Allied Practical		Practical I: Offered by the Department of Botany	2	-	INT	-	-	-	
	IV	NME - I*		Offered by other Departments	2	2	EXT	25	75	100	
	IV	SBE -I		Integrated Solid Waste Management	2	2	EXT	25	75	100	
	TOTAL					30	19				600
			EXTRA CREDIT COURSE		Internship – I - (II Semester vacation) Online/Offline - Certificate, Report & Photo (MANDATORY)	-	1	INT	-	-	100
				Community outreach activity (II Semester vacation – Report, Photo & Feedback) (OPTIONAL)	-	1	INT	-	-	100	

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
IV	I	Language - IV		Course – IV	6	3	EXT	25	75	100	
	II	English - IV		Course – IV	6	3	EXT	25	75	100	
	III	Core Course - IV		Organic Evolution and Developmental Biology	6	6	EXT	25	75	100	
	III	Core Practical - II		Practical-II:Concepts of Ecology, Organic Evolution and Developmental Biology	2	4	INT	40	60	100	
	III	Second Allied Course - II		Offered by the Department of Botany	4	3	EXT	25	75	100	
	III	Second Allied Practical		Practical I: Offered by the Department of Botany	2 / 2	3 / 3	INT	40	60	100	
	IV	NME - II*		Offered by other Departments	2	2	EXT	25	75	100	
	IV	SBE – II		Introduction to Bee Keeping	2	2	EXT	25	75	100	
	TOTAL					30	26				800
			EXTRA CREDIT COURSE		Certificate Course (IKS) – Offered by other Departments (beyond class hours) (MANDATORY)	2	2	INT	25	75	100
				Office Automation (MANDATORY)	2	2	INT	25	75	100	
				Internship – II (III Semester vacation) - Online/Offline - Certificate, Report & Photo (OPTIONAL)	-	1	INT	-	-	100	

* Offered by the Department to the students of other disciplines

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
V	III	Core Course - V		Principles of Physiology and Immunology	5	5	EXT	25	75	100	
	III	Core Course - VI		Cell and Molecular Biology	5	5	EXT	25	75	100	
	III	Core Course - VII		Biological Research Techniques, Toxicology and Biostatistics	5	5	EXT	25	75	100	
	III	Core Practical - III		Practical-III:Physiology, Immunology,Cell and Molecular Biology, Biological Techniques, Toxicology, Biostatistics and Sericulture	3+3	4	INT	40	60	100	
	III	MBE – I		Sericulture	5	4	EXT	25	75	100	
	IV	SBE - III		Nanotechnology in Life Sciences	2	2	EXT	25	75	100	
	IV	SSD		Soft Skill Development	2	2	INT	25	75	100	
				TOTAL	30	27				700	
			EXTRA CREDIT COURSE		Value Added Course – offered to the same department (beyond class hours) (MANDATORY)	2	2	INT	25	75	100
					Web Designing (MANDATORY)	2	2	INT	25	75	100
				Internship – III (IV Semester vacation) – Online/Offline - Certificate, Report & Photo (OPTIONAL)	-	1	INT	-	-	100	
				Online Course (MOOC/ Swayam / NPTEL) – Before V Semester (OPTIONAL)	-	2	INT	-	-	100	

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
VI	III	Core Course - VIII		Fundamentals of Genetics	5	5	EXT	25	75	100	
	III	Core Course - IX		Essentials of Microbiology	5	5	EXT	25	75	100	
	III	Core Practical - IV		Practical-IV:Genetics, Microbiology, Aquaculture and Biotechnology	3+3	4	INT	40	60	100	
	III	MBE- II		Aquaculture	5	4	EXT	25	75	100	
	III	MBE - III		Applied Biotechnology	5	4	EXT	25	75	100	
	III	Project		Group Project	3	3	EXT	20	80	100	
	V	GS		Gender Studies	1	1	INT	25	75	100	
	V	Extension		Extension Activities (NSS/NCC/YRC/Sports and Exnora)	-	1	INT	--	--	100	
	TOTAL					30	27				800
	Grand Total					180	140				4100
			EXTRA CREDIT COURSE		Capacity Building for Enhancing Professional Skills – Offered by the Department (MANDATORY)	2	2	INT	-	-	100
				Internet Concepts (MANDATORY)	2	2	INT	25	75	100	

TOTAL DISTRIBUTION OF HOURS, CREDITS & MARKS FOR UG PROGRAMME			
SEMESTER	HOURS	CREDITS	TOTAL MARKS
I	30	16	500
II	30	24	700
III	30	19	600
IV	30	26	800
V	30	28	700
VI	30	27	800
TOTAL	180	140	4100

ALLIED COURSES OFFERED TO OTHER DEPARTMENTS

For Botany Major

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
III	III	First Allied Course - I		Invertebrate and Chordate Biology	4	3	EXT	25	75	100
IV	III	First Allied Course - II		Applied Zoology	4	3	EXT	25	75	100
II	III	First Allied Practical		Practical:Invertebrate, Chordate Biology and Applied Zoology	2+2	3	INT	40	60	100

LIST OF MAJOR BASED ELECTIVE COURSES

SEM	GROUP	COURSE CODE	COURSE TITLE
V	I (Choose any one course)		(A) Sericulture (B) Economic Entomology
VI	II (Choose any one course)		(A) Aquaculture (B) Biochemistry
	III (Choose any one course)		(A) Applied Biotechnology (B) Bioinformatics

LIST OF SKILL BASED ELECTIVE COURSES

SEM	GROUP	COURSE CODE	COURSE TITLE
III	I (Choose any one course)		(A) Integrated Solid Waste Management (B) Dairy Farming
IV	II (Choose any one course)		(A) Introduction to Bee Keeping (B) Techniques in Mushroom Culture
V	III (Choose any one course)		(A) Basics of Nanotechnology (B) Poultry Farming

NON MAJOR ELECTIVE COURSES OFFERED TO OTHER DEPARTMENTS

SEM	COURSE	COURSE CODE	COURSE TITLE
III	I		Fish Culture
IV	II		Vermicomposting Technology

VALUE ADDED COURSE
Extra Credit Course for Skill Development

SEM	COURSE	COURSE CODE	COURSE TITLE
V	I		Economic Zoology

CERTIFICATE COURSE OFFERED TO OTHER DEPARTMENTS
Extra Credit Course for Skill Development

SEM	COURSE	COURSE CODE	COURSE TITLE
IV	I		Basics of Sericulture

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Subject	Number of Courses	Hours	Credit
Language	4	24	12
English	4	24	12
Core Course (9x5=45)	9	51	45
Core Practical(3x4=12)+(1x5=5)	4	22	17
Allied Course: Botany	4	16	12
Allied Practical: Botany	2	8	6
Major Based Elective Course (3x4)	3	15	12
Skill Based Elective Course	3	6	6
Non Major Elective Course	2	4	4
Value Based Education	1	2	2
Environmental Studies	1	2	2
Soft Skill Development	1	2	2
Gender Studies	1	1	1
Extension Activities	1		1
Group Project	1	3	3
Total	41	180	140

**B.Sc. Zoology
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EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT***

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
I	EXTRA CREDIT COURSES		Communicative and Functional English offered by Department of English (MANDATORY)	2	2	INT	25	75	100
III			Community outreach activity (II Semester vacation – Report, Photo & Feedback) (OPTIONAL)	-	1	INT	-	-	100
III			Internship – I - (II Semester vacation) Online/Offline - Certificate, Report & Photo (MANDATORY)	-	1	INT	-	-	100
IV			Certificate Course (IKS) – Offered to other Department (beyond class hours) (MANDATORY)	2	2	INT	25	75	100
IV			Internship – II (III Semester vacation) - Online/Offline -Certificate, Report & Photo (OPTIONAL)	-	1	INT	-	-	100
IV			Office Automation (MANDATORY)	2	2	INT	25	75	100
V			Value Added Course – Offered to the same department (beyond class hours) (MANDATORY)	2	2	INT	25	75	100
V			Internship – III (IV Semester vacation) – Online/Offline - Certificate, Report & Photo (OPTIONAL)	-	1	INT	-	-	100
V			Web Designing (MANDATORY)	2	2	INT	25	75	100
V			Online – Course (MOOC/Swayam/NPTEL) – Before V Semester (OPTIONAL)	-	2	INT	-	-	100
VI			Capacity Building for Enhancing Professional Skills – Offered by the Department (MANDATORY)	2	2	INT	-	-	100
VI			Internet Concepts (MANDATORY)	2	2	INT	25	75	100
				TOTAL		20			

**B.Sc. Zoology
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MANDATORY EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT*

SEM	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
I		Communicative and Functional English offered by Department of English	2	2	INT	25	75	100
III		Internship – I - (II Semester vacation) Online/Offline - Certificate, Report & Photo	-	1	INT	-	-	100
IV		Certificate Course (IKS) – Offered to other Department (beyond class hours)	2	2	INT	25	75	100
IV		Office Automation	2	2	INT	25	75	100
V		Value Added Course – Offered to the same department (beyond class hours)	2	2	INT	25	75	100
V		Web Designing	2	2	INT	25	75	100
VI		Capacity Building for Enhancing Professional Skills – Offered by the Department	2	2	INT	-	-	100
VI		Internet Concepts	2	2	INT	25	75	100
		TOTAL NO. OF COURSES 8	14	15				800

B.Sc. Zoology
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OPTIONAL EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT*

SEM	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
III		Community outreach activity (II Semester vacation – Report, Photo & Feedback)	-	1	INT	-	-	100
IV		Internship – II (III Semester vacation) - Online/Offline -Certificate, Report & Photo	-	1	INT	-	-	100
V		Internship – III (IV Semester vacation) – Online/Offline - Certificate, Report & Photo	-	1	INT	-	-	100
V		Online – Course (MOOC/Swayam/NPTEL) – Before V Semester	-	2	INT	-	-	100
		TOTAL NO OF COURSES	4	5				400

**B.Sc. Zoology
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EXTRA CREDIT COURSES FOR SKILL DEVELOPMENT*

Subject	Common/Subject Specific	Number of Courses	Credit
**Office Automation (MANDATORY)	Common to All	1	2
**Web Designing (MANDATORY)	Common to All	1	2
**Internet Concepts (MANDATORY)	Common to All	1	2
**Online Course (MOOC/SWAYAM/NPTEL) (OPTIONAL)	Subject Specific	1	2
Communicative and Functional English (MANDATORY)	Common to All	1	2
Community outreach activity (OPTIONAL)	Subject Specific	1	1
Certificate Course (IKS - Indian Knowledge System) (MANDATORY)	Subject Specific (offered to other departments)	1	2
Value Added Course (MANDATORY)	Subject Specific	1	2
Internship – I To be completed during II Semester Vacation (MANDATORY) Internship – II & III (OPTIONAL)	Subject Specific	3	3
Capacity Building for Enhancing Professional Skills (MANDATORY)	50%Common to All (Placement Training) 50% Subject Specific(Career Guidance by the respective Departments)	1	2
TOTAL		12	20

*The extra credit courses have been introduced in the OBE-CBCS Curriculum pattern to be implemented from 2024 onwards based on the recommendations of the apex bodies namely TANSCHÉ, UGC, Bharathidasan University (Parent University), NAAC in lieu of the National Education Policy.