



SEETHALAKSHMI RAMASWAMI COLLEGE

(Autonomous)

**Affiliated to Bharathidasan University
Tiruchirappalli**

Accredited with A+ by NAAC (4th Cycle)



B.Sc., Biotechnology

Revised CBCS - OBE - BASED Curriculum Structure - UG

(For students admitted from 2024 onwards)

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT /EXT	CIA	SE	TOTAL
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		Cell Biology	7	5	EXT	25	75	100
	III	Core Practical-I		Practical-I: Cell and Molecular Biology	3	-	INT			
	III	First Allied Course-I		Microbiology	4	3	EXT	25	75	100
	III	First Allied Practical		Practical: Microbiology and Immunology	2	-	INT	-	-	-
	IV	VBE		Value Based Education	2	2	EXT	25	75	100
	TOTAL					30	16			
		EXTRA CREDIT COURSE		Communication and Functional English offered by Dept. of English (MANDATORY)	2	2	INT	25	75	100

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOTAL
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		Molecular Biology	7	6	EXT	25	75	100
	III	Core Practical-I		Practical-I:Cell and Molecular Biology	3	4	INT	40	60	100
	III	First Allied Course- II		Immunology	4	3	EXT	25	75	100
	III	First Allied Practical		Practical: Microbiology and Immunology	2	3	INT	40	60	100
	IV	EVS		Environmental Studies	2	2	EXT	25	75	100
	TOTAL					30	24			

III	Language III		Course III	6	3	EXT	25	75	100
	English III		Course III	6	3	EXT	25	75	100
	Core Course III		Genetics	6	5	EXT	25	75	100
	Core Practical II		Practical-II: Genetics and Genetic Engineering	2	-	INT	-	-	-
	Second Allied Course I		Offered by the Department of Biochemistry	4	3	EXT	25	75	100
	Second Allied Practical II		Practical-II: Analysis of Biomolecules	2	-	INT	-	-	-
	NME – I *		Offered by the other departments	2	2	EXT	25	75	100
	SBE - I		Bioinstrumentation	2	2	EXT	25	75	100
TOTAL				30	18				600
IV	Language IV		Course IV	6	3	EXT	25	75	100
	English IV		Course IV	6	3	EXT	25	75	100
	Core Course IV		Genetic Engineering	6	5	EXT	25	75	100
	Core Practical II		Practical-II: Genetics and Genetic Engineering	2	4	INT	40	60	100
	Second Allied Course II		Offered by the Department of Biochemistry	4	3	EXT	25	75	100
	Second Allied Practical II		Practical-II: Analysis of Biomolecules	2	3	INT	40	60	100
	NME -II *		Biotechnology for Environmental Restoration	2	2	EXT	25	75	100
	SBE -II		Plant Tissue Culture	2	2	EXT	25	75	100
TOTAL				30	25				800

**Offered by the Department to the students of other disciplines*

V	Core Course V		Enzyme and Enzyme Technology	6	5	EXT	25	75	100
	Core Course VI		Plant Biotechnology	6	5	EXT	25	75	100
	Core Course VII		Animal Biotechnology	6	5	EXT	25	75	100
	Core Practical III		Practical-III: Enzymology, Plant and Animal Biotechnology	3	-	INT	-	-	-
	MBE- I		Biostatistics	5	4	EXT	25	75	100
	SBE- III		Molecular Modeling and Drug Designing	2	2	EXT	25	75	100
	SSD		Soft Skill Development	2	2	INT	25	75	100
TOTAL				30	23				600
VI	Core Course VIII		Pharmaceutical Biotechnology	5	5	EXT	25	75	100
	Core Course IX		Environmental Biotechnology	5	5	EXT	25	75	100
	Core Practical III		Practical-III: Enzymology, Plant and Animal Biotechnology	2	4	INT	40	60	100
	Core Practical IV		Practical-IV: Pharmaceutical and Environmental Biotechnology	4	4	INT	40	60	100
	MBE- II		Fermentation Technology	5	4	EXT	25	75	100
	MBE- III		Basic Bioinformatics	5	4	EXT	25	75	100
	Field Project		Field Project	3	3	INT	-	-	100
	GS		Gender Studies	1	1	INT	25	75	100
TOTAL				30	30				800
	Extension		Extension Activity	-	1	INT	25	75	100
TOTAL				30	31				900
GRAND TOTAL				180	140				4200