SEETHALAKSHMI RAMASWAMI COLLEGE
(Autonomous)
Affiliated to Bharathidasan University
Tiruchirappalli
Accredited with A+ by NAAC (4th Cycle)

B.Sc. Botany
Revised CBCS - OBE - BASED 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		Algae, Fungi and Bryophytes	7	6	EXT	25	75	**100**
	III	Core Practical-I		**Practical-I**:Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	3	-	INT	-	-	**-**
	III	First Allied Course-I		Offered by the Department of Chemistry	4	3	EXT	25	75	**100**
	III	First Allied Practical-I		**Practical-I**:Offered by the Department of Chemistry	2	-	INT	-	-	**-**
	IV	VBE		Value Based Education	2	2	EXT	25	75	**100**
				TOTAL	30	17				**500**
		EXTRA CREDIT COURSE		Communicative and Functional English offered by Department of English (**MANDTORY**)	2	2	INT	25	75	100

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
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		Pteridophytes, Gymnosperms and Paleobotany	7	6	EXT	25	75	**100**
	III	Core Practical-I		**Practical-I**:Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	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-I		**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**				**700**

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		Plant Anatomy and Embryology	6	6	EXT	25	75	**100**
	III	Core Practical-II		**Practical-II**:Plant Anatomy, Embryology ,Cell Biology, Genetics and Biostatistics	2	-	INT	-	-	**-**
	III	Second Allied Course-I		Offered by the Department of Zoology	4	3	EXT	25	75	**100**
	III	Second Allied Practical-I		**Practical-I**:Offered by the Department of Zoology	2	-	INT	-	-	**-**
	IV	NME-I[*]		Offered by other Departments	2	2	EXT	25	75	**100**
	IV	SBE-I		Nursery techniques and Mushroom cultivation	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		Cell Biology, Genetics and Biostatistics	6	6	EXT	25	75	**100**
	III	Core Practical-II		**Practical-II**:Plant Anatomy, Embryology, Cell Biology, Genetics and Biostatistics	2	4	INT	40	60	**100**
	III	Second Allied Course-II		Offered by the Department of Zoology	4	3	EXT	25	75	**100**
	III	Second Allied Practical-I		**Practical-I**:Offered by the Department of Zoology	2	3	INT	40	60	**100**
	IV	NME-II*		Offered by other Departments	2	2	EXT	25	75	**100**
	IV	SBE-II		Biofertilizer and Biopesticides	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		Morphology, Taxonomy and Economic Botany	5	5	EXT	25	75	**100**
	III	Core Course-VI		Biological Techniques	5	5	EXT	25	75	**100**
	III	Core Course-VII		General Microbiology	5	5	EXT	25	75	**100**
	III	Core Practical-III		**Practical-III**: Morphology, Taxonomy, Economic Botany, Biological Techniques and General Microbiology	6	4	INT	40	60	**100**
	III	MBE-I		Environmental Biotechnology	5	4	EXT	25	75	**100**
	IV	SBE-III		Preservation of fruits and vegetables	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		Plant Physiology and Plant Biochemistry	5	5	EXT	25	75	**100**
	III	Core Course-IX		Environment, Biodiversity and Conservation	5	5	EXT	25	75	**100**
	III	Core Practical-IV		**Practical-IV**: Plant Physiology, Plant Biochemistry, Environment, Biodiversity and Conservation.	6	4	INT	40	60	**100**
	III	MBE-II		Horticulture and Plant Breeding	5	4	EXT	25	75	**100**
	III	MBE-III		Plant Biotechnology and Genetic Engineering	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 Activity (NSS/NCC/YRC/SPORTS/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	17	500
II	30	24	700
III	30	19	600
IV	30	26	800
V	30	27	700
VI	30	27	800
TOTAL	180	140	4100

MAJOR BASED ELECTIVE COURSES

SEM	PART	COURSE	GROUP	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
V		Major Based Elective Course-I	**Group I** (Choose any one course)		**Environmental Biotechnology** Plant Pathology	5	4	EXT	25	75	**100**
VI	III	Major Based Elective Course-II	**Group II** (Choose any one course)		**Horticulture and Plant Breeding** Herbal Technology	5	4	EXT	25	75	**100**
		Major Based Elective Course-III	**Group III** (Choose any one course)		**Plant Biotechnology and Genetic Engineering** Evolution	5	4	EXT	25	75	**100**
					TOTAL	**15**	**12**				**300**

ALLIED COURSES

(OFFERED TO THE STUDENTS OF CHEMISTRY AND ZOOLOGY)

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
III		Allied Course-I		**Plant Science-I:**Cryptogams, Gymnosperms, Morphology, Taxonomy, Anatomy and Embryology	4	3	EXT	25	75	**100**
IV	III	Allied Course-II		**Plant Science-II:**Cytogenetics, Ecology, Plant Physiology and Plant Propagation	4	3	EXT	25	75	**100**
		Allied Practical-I		**Practical:** Plant Science-I and II	4	3	INT	40	60	**100**
				TOTAL	**12**	**9**				**300**

SKILL BASED ELECTIVE COURSES

SEM	PART	COURSE	GROUP	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
III		Skill Based Elective Course-I	**Group I** (Choose any one course)		**Nursery Techniques and Mushroom Cultivation** Plant Protection	2	2	EXT	25	75	**100**
IV	IV	Skill Based Elective Course-II	**Group II** (Choose any one course)		**Biofertilizer and Biopesticides** Food and Agricultural Microbiology	2	2	EXT	25	75	**100**
V		Skill Based Elective Course-III	**Group III** (Choose any one course)		**Preservation of Fruits and Vegetables** Ethnobotany	2	2	EXT	25	75	**100**
					TOTAL	**6**	**6**				**300**

NON MAJOR BASED ELECTIVE COURSES

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
III	IV	Non Major Based Elective Courses-I		Gardening and Mushroom Cultivation	2	2	EXT	25	75	**100**
IV	IV	Non Major Based Elective Courses-II		Bioinoculants	2	2	EXT	25	75	**100**
				TOTAL	4	4				**200**

VALUE ADDED COURSE
Extra Credit Course for Skill Development

SEM	COURSE	COURSE CODE	COURSE TITLE
V	I		Medicinal Plants and Herbal Preparations

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

SEM	COURSE	COURSE CODE	COURSE TITLE
IV	I		Herbal Medicine

DEPARTMENT OF BOTANY

(For students admitted from 2024 onwards)

Subject	Number of Courses	Hours	Credit
Language	4	24	12
English	4	24	12
Core Course - 9 Theory (4X6=24, 5X5=25)	9	51	49
Core Practical - 4 Practical (4X4=16)	4	22	16
Allied Course – 4 Theory	4	16	12
Allied Practical - 2 Practical	2	08	6
Major Based Elective Course	3	15	12
Skill Based Elective Course	3	06	6
Non Major Based Elective	2	04	4
Value Based Education	1	02	2
Environmental Studies	1	02	2
Soft Skill Development	1	02	2
Gender Studies	1	01	1
Extension Activity	1	-	1
Group Project	1	03	3
Total	**41**	**180**	**140**

B. Sc., BOTANY
(CBCS System)
EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT*

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
I			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	**EXTRA CREDIT COURSES**		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**				**1200**

B. Sc., BOTANY
(CBCS System)
EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT* (MANDATORY)

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			**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			**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			**Web Designing (MANDATORY)**	2	2	INT	25	75	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		**15**				**800**

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B. Sc., BOTANY
(CBCS System)
EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT* (OPTIONAL)

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
III	**EXTRA CREDIT COURSES**		Community Outreach Activity (II Semester vacation – **Report, Photo & Feedback**) **(OPTIONAL)**	-	1	INT	-	-	100
IV			**Internship – II** (III Semester vacation) - **Online/Offline -Certificate, Report & Photo (OPTIONAL)**	-	1	INT	-	-	100
V			**Internship – III** (IV Semester vacation) – **Online/Offline - Certificate, Report & Photo (OPTIONAL)**	-	1	INT	-	-	100
V			Online – Course (MOOC/Swayam/NPTEL) – **Before V Semester (OPTIONAL)**	-	2	INT	-	-	100
			TOTAL		**5**				**400**

DEPARTMENT OF BOTANY
(For students admitted from 2024 onwards)
EXTRA CREDIT COURSES*

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 workshop by the respective Departments)	1	2
TOTAL	**12**	**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 **TANSCHE, UGC, Bharathidasan University (Parent University), NAAC in lieu of the National Education Policy.** **Courses with Credit Transfer provision