



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 2021 onwards)

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
I	I	Language-I	U211XXLT01	Course-I	6	3	EXT	25	75	100
	II	English-I	U211XXEE01	Course-I	6	3	EXT	25	75	100
	III	Core Course-I	U211BYMT01	Algae, Fungi and Bryophytes	7	5	EXT	25	75	100
	III	Core Practical-I	U212BYMP01	Practical-I: Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	2	-	INT	-	-	-
	III	First Allied Course-I	U211CHAT01	Offered by the Department of Chemistry	4	3	EXT	25	75	100
	III	First Allied Practical-I	U212CHAP01	Practical-I: Offered by the Department of Chemistry	2	-	INT	-	-	-
	III	Cross disciplinary course (CDC) (Botany and Zoology)	U212XCMT01	Integrated Farming	1	-	EXT	-	-	-
	IV	VBE	U211XXVE01	Value Based Education	2	2	EXT	25	75	100
	TOTAL					30	16			

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
II	I	Language-II	U212XXLT02	Course -II	6	3	EXT	25	75	100
	II	English-II	U212XXEE02	Course -II	6	3	EXT	25	75	100
	III	Core Course-II	U212BYMT02	Pteridophytes, Gymnosperms and Paleobotany	5	5	EXT	25	75	100
	III	Core Practical-I	U212BYMP01	Practical-I : Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	2	4	INT	40	60	100
	III	First Allied Course-II	U212CHAT04	Offered by the Department of Chemistry	4	3	EXT	25	75	100
	III	First Allied Practical-I	U212CHAPO1	Practical-I: Offered by the Department of Chemistry	2	3	INT	40	60	100
	III	Cross disciplinary course(CDC) (Botany and Zoology)	U212XCMT01	Integrated Farming	3	4	EXT	25	75	100
	IV	EVS	U212XXES01	Environmental Studies	2	2	EXT	25	75	100
	TOTAL					30	27			

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
III	I	Language-III	U213XXLT03	Course - III	6	3	EXT	25	75	100
	II	English-III	U213XXEE03	Course - III	6	3	EXT	25	75	100
	III	Core Course-III	U213BYMT03	Anatomy and Embryology	6	5	EXT	25	75	100
	III	Core Practical-II	U214BYMP02	Practical -II :Anatomy, Embryology ,Cell Biology, Genetics and Biostatistics	2	-	INT	-	-	-
	III	Second Allied Course-I	U213ZYAT01	Offered by the Department of Zoology	4	3	EXT	25	75	100
	III	Second Allied Practical-I	U214ZYAP01	Practical-I : Offered by the Department of Zoology	2	-	INT	-	-	-
	IV	NME-I	U213BYNE01	Offered by other Departments	2	2	EXT	25	75	100
	IV	SBE-I	U213BYSE01:1	Nursery techniques and Mushroom cultivation	2	2	EXT	25	75	100
TOTAL					30	18				600

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
IV	I	Language-IV	U214XXLT04	Course- IV	6	3	EXT	25	75	100
	II	English-IV	U214XXEE04	Course- IV	6	3	EXT	25	75	100
	III	Core Course-IV	U214BYMT04	Cell Biology, Genetics and Biostatistics	6	5	EXT	25	75	100
	III	Core Practical-II	U214BYMP02	Practical-II: Anatomy ,Embryology, Cell Biology, Genetics and Biostatistics	2	4	INT	40	60	100
	III	Second Allied Course-II	U214ZYAT02	Offered by the Department of Zoology	4	3	EXT	25	75	100
	III	Second Allied Practical-I	U214ZYAP01	Practical-I: Offered by the Department of Zoology	2	3	INT	40	60	100
	IV	NME-II	U214BYNE02	Offered by other Departments	2	2	EXT	25	75	100
	IV	SBE-II	U214BYSE02:1	Biofertilizer and Biopesticides	2	2	EXT	25	75	100

		TOTAL	30	25				800
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SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CR D	INT/EXT	CI A	SE	TOT
V	III	Core Course-V	U215BYMT05	Morphology, Taxonomy and Economic Botany	6	5	EXT	25	75	100
	III	Core Course-VI	U215BYMT06	Biological Techniques	6	5	EXT	25	75	100
	III	Core Course-VII	U215BYMT07	General Microbiology	6	5	EXT	25	75	100
	III	Core Practical-III	U216BYMP03	Practical-III: Morphology, Taxonomy, Economic Botany, Biological Techniques and General Microbiology	3	-	INT	-	-	-
	III	MBE-I	U215BYME01:1	Environmental Biotechnology	5	4	EXT	25	75	100
	IV	SBE-III	U215BYSE03:1	Preservation of fruits and vegetables	2	2	EXT	25	75	100
	IV	SSD		Soft Skill Development	2	2	INT	25	75	100
TOTAL					30	23				600

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT
VI	III	Core Course-VIII	U216BYMT08	Plant Physiology, Biochemistry and Biophysics	5	5	EXT	25	75	100
	III	Core Course-IX	U216BYMT09	Environment, Biodiversity and Conservation	5	5	EXT	25	75	100
	III	Core Practical-III	U216BYMP03	Practical-III: Morphology, Taxonomy, Economic Botany, Biological Techniques and General Microbiology	2	4	INT	40	60	100
	III	Core Practical-IV	U216BYMP04	Practical-IV: Plant Physiology, Biochemistry, Biophysics, Environment, Biodiversity and Conservation.	4	4	INT	40	60	100
	III	Project	U216BYPJ01	Group project	3	3	EXT	20	80	100
	III	MBE-II	U216BYME02:1	Horticulture and Plant Breeding	5	4	EXT	25	75	100
	III	MBE-III	U216BYME03:1	Plant Biotechnology and Genetic Engineering	5	4	EXT	25	75	100
	V	GS	U216XXGS01	Gender Studies	1	1	INT	25	75	100
	V	Extension		Extension Activity	-	1	INT			100
TOTAL					30	31				900
GRAND TOTAL					180	140				4200

MAJOR BASED ELECTIVE COURSES

SEM	PART	COURSE	GROUP	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
V	III	Major Based Elective Course-I	Group I (Choose any one course)	U215BYME01:1	I-Environmental Biotechnology II II-Plant Pathology	5	4	EXT	25	75	100
VI		Major Based Elective Course-II	Group II (Choose any one course)	U216BYME02:1	I-Horticulture and Plant Breeding II-Herbal Technology	5	4	EXT	25	75	100
		Major Based Elective Course-III	Group III (Choose any one course)	U216BYME03:1	I -Plant Biotechnology and Genetic Engineering II-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	III	Allied Course-I	U213BYAT01	Plant Science-I: Cryptogams, Gymnosperms, Morphology, Taxonomy, Anatomy and Embryology	4	3	EXT	25	75	100
IV		Allied Course-II	U214BYAT02	Plant Science-II : Cytogenetics, Ecology, Plant Physiology and Plant Propagation	4	3	EXT	25	75	100
		Allied Practical-I	U214BYAP01	Practical –I: (Plant Science-I &II) Cryptogams, Gymnosperms, Morphology, Taxonomy, Anatomy , Embryology, Cytogenetics, Ecology, Plant Physiology, and Plant Propagation	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	IV	Skill Based Elective Course-I	Group I (Choose any one course)	U213BYSE01:1	I-Nursery Techniques and Mushroom Cultivation	2	2	EXT	25	75	100
IV		Skill Based Elective Course-II	Group II (Choose any one course)	U214BYSE02:1	I–Biofertilizer and Biopesticides	2	2	EXT	25	75	100
V		Skill Based Elective Course-III	Group III (Choose any one course)	U215BYSE03:1	I-Preservation of Fruits and Vegetables	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	NME-I	U213BYNE01	Gardening and Mushroom Cultivation	2	2	EXT	25	75	100
IV	IV	NME-II	U214BYNE02	Bioinoculants	2	2	EXT	25	75	100
TOTAL					4	4				200

OPTIONAL COURSES OFFERED BY THE DEPARTMENT OF BOTANY

SEM	PART	COURSE	COURSE TITLE	CRD	EXT/ INT	CIA	SE	TOT
III	IV	SBE I	Plant Protection/Option I	2	EXT	25	75	100
IV	IV	SBE II	Food and Agricultural Microbiology/Option II	2	EXT	25	75	100
V	IV	SBE III	Ethnobotany/Option III	2	EXT	25	75	100
V	III	MBE I	Plant Pathology /Option I	4	EXT	25	75	100
VI	III	MBE II	Herbal Technology/Option II	4	EXT	25	75	100
VI	III	MBE III	Evolution /Option III	4	EXT	25	75	100

UG PROGRAMME – 2021 ONWARDS

PART	DETAILS	NUMBER OF COURSES	CREDIT/ COURSE	TOTAL CREDIT
I	Language	4	3	12
II	English	4	3	12
III	Core Courses	9	5	45
	Core Practical	4	5	16
	Allied Course	4	3	12
	Allied Practical	2	3	6
	MBE	3	4	12
	Cross Disciplinary Course (CDC)	1	4	4
	Group Project	1	3	3
IV	SBE	3	2	6
	NME	2	2	4
	EVS	1	2	2
	VBE	1	2	2
	SSD	1	2	2
V	GENDER	1	1	1
	EXTENSION	1	1	1
TOTAL CREDITS				140

VALUE ADDED COURSES

SEM	COURSE TITLE
I	MEDICINAL PLANTS AND HERBAL PREPARATIONS
III	MILLETS AND GREENS FOR DAY TODAY LIFE
V	BOTANY FOR COMPETITIVE EXAMINATION

CERTIFICATE COURSES - APPLIED BOTANY

SEM	COURSE TITLE
II	EDIBLE MUSHROOMS
IV	ORNAMENTAL GARDENING
VI	HERBAL COSMETICS

SEMESTER	HOURS	CREDITS	TOTAL MARKS
I	30	16	500
II	30	27	800
III	30	18	600
IV	30	25	800
V	30	23	600
VI	30	31	900
TOTAL	180	140	4200