

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC, College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

PERCENTAGE OF SYLLABUS REVISION 2020 AND LATER



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY 2020 AND LATER

HE STANDA	ARD FIREW	5	TNAM COLLEGE FOR WOMEN (A) SIVAKASI. MENT OF BOTANY	UTONOMOUS),
	(B.Sc. I For those who have	Botany – BDBT e joined in June 2020 and later)	
	S.No.	Components	Number of courses having changes]
	1.	Part I	4	
	2.	Part II	2	1
	3.	Part III	12	1
	4.	Part IV	5	1
		Total	23	
Total Nun	nber of Co	urses having cha	anges : 23	
Total Nur	nber of Co	urses	: 52	
Percentag	e of Revisi	on	: 44%	

3 (B. DEEPA) Signature of the HOD

Head of the Dept. of Botany The Standard Fireworks Rajaratnap College for Women, Sivakasi. T-Palaneesi

Signature of the Principal PRINCIPAL The Standard Fireworks Rajaratmen Cellege for Women SIVARASI



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF BOTANY B.Se, BOTANY - AI LOTMENT OF HOURS AND CREDITS (For those who have joined in 2020 and later)

						Semest	er		T-4-1 5
	Courses		I	11	ш	IV	v	VI	Total No. of Credits
Language Courses									
Part I - Tamil/Hindi/	French Language	e Course	6(3)	6(3)	6(3)	6(3)	-	-	12
Part II - English Lang	guage Course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part III – Major, Ma	jor Elective and	Allied Courses		•					
Major	Theory	Course 1	4(4)	5(5)	5(5)	5(5)	6(5)	6(5)	
-		Course II	3(3)	-	4(4)	-	-	5(5)]
		Lab I	3(*)	3(4)	3(*)	3(4)	6(5)	6(5)	4
		Lab II	-	-	-	-	3(*)	3(3)	4
	Practical	Internship/ On-The-Job Training	-	-	-	-	-(1)	-	
	Theory	Course 1	-	-	-	-	5(5)	5(5)]
Major Elective		Course II	-	-	-	-	5(4)	-	
Allied	Theory		4(4)	4(4)	4(4)	4(4)	-	-	
Amed Practical			2(*)	2(2)	2(*)	2(2)	-	-	
Total No. of Credits			11	15	13	15	20	23	97
Part-IV Ability Enh	ancement Cour:	ses							
Value Added Course									
1.Environmental Stud	2(2)	-	-	-	-	-			
2.Value Education and Gender studies			-	2(2)	-	-	-	-	
Non Major Elective	Courses								
1) NME I			-	-	-	2(2)	-	-	
2) NME II			-	-	-	-	2(2)	-	1
Skill Based Courses				L					
1) Computer Literacy			-	2(2)	-	-	-	-	1
 Discipline Specific 			-	-	-	2(2)	-	-	1
 Career Guidance 	course		-	-	-	-	2(2)	-	1
4) Self Employment / Course- Theory	Job Oriented		-	-	-	-	-	2(2)	
5) Self Employment/ J Course– Practical / P			-	-	-	-	-	2(2)	-
Library and Information Science			-	-	-	-	1(*)	1(*)	
Total			2	4	-	4	4	4	18
Part-V: Social Awar	eness Program	ne and Physical Edu	cation						
Social Service Leagu Ribbon Club / Envir Consumer Club / Ex Physical Education / National Service Sch	e / Youth Red C onment Club / C tension Activitic National Cadet	Tross/ Red Ditizen 25 Cell /	-	-(1)	-	-	-	-	1
rational Service Sen					1				140

B. AL. Signature of the HOD

Head of the Dept. of Botany'' The Standard Frieworks Brinnians College for Wainen Sivekasi. T-Palaneeswari Signature of the Principal Dr. T. Palaneeswari PRINCIPAL The Standard Fireworks Rajaratnam College for Women, SIVAKASI.



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY 2020 AND LATER

			DWOME		oNOMOU	ev env	A 1/ A 51	
THE		REWORKS RAJARATNAM COLLEGE F DEPARTMENT OF BOT B.Sc. BOTANY (For those who have joined in 20) OME BASED EDUCATION WITH CHOIC PROGRAMME CODE - PROGRAMME SCHE!	ANY 20 and later 2E BASED (3DBT)			AKASI	
int			6 ×	S	ı of Irs.)	Mai	rks Alle	otted
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total
Semester I								
Part I	BDG111/ BDGH11/ BDGF11	சங்க இலக்கியமும் உரைநடையும/ Hindi Language Course – 1 / French Language Course – 1	6	3	3	40	60	100
Part II	BDGE11	Communicative English-I	6	3	3	40	60	10
	BDBT11	Major Courses Plant Diversity 1	4	4	3	40	60	100
	PDPTIS	Call Biology	3	3	3	40	60	100
Part III	-	Practical I	3	-	-	-	-	-
	BDBT1A	Allied Courses Animal Biotechnology I	4	. 4	3	40	60	100
	-	Allied Practical	2	-	-	-	-	-
Part IV	BDES11	Value Added Course Environmental studies	2	2	2	40	60	100
		Total	30	19				600
Semester I	IT							
Part 1	BDGT21/ BDGH21/ BDGF21	அறஇலக்கியமும் தன்முன்னேற்றக் கட்டுரைகளும் / Hindi Language Course – 11 / French Language Course - 11	6	3	3	40	60	100
Part II	BDGE21	Communicative English-II	6	3	3	40	60	100
	BDBT21	Major Courses Plant Diversity II	5	5	3	40	60	100
Part III	BDBT21	Practical I	3	4	3	50	50	100
arent	BDBT2A	Allied Courses Animal Biotechnology II	4	4	3	40	60	100
	BDBT2AL	Allied Practical	2	2	3	50	50	100
Part IV	BDVG21	Value Added Course Value Education and Gender Studies	2	2	2	40	60	100
Fartiv	BDCL23	Skill Based Course Introduction to Computers & MS office	2	2	2	40	60	100
Part V	BDSA2	Social Awareness Programmes and Physical Education Total	- 30	1	-	-	- 1	100



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY 2020 AND LATER

-								
Part I	BDGT31/	சமய இலக்கியமும் நாடகமும்/				1	1	-
	BDGH31/	Hindi Language Course –III /	6	3	3	40	60	1
	BDGF31	French Language Course - III						
Part II	BDGE31	Communicative English-III	6	3	3	40	60	1
	BDDT1	Major Courses	5	5	3	40	60	
	BDBT31 BDBT32/	Plant Anatomy and Embryology		_		40	80	1
Part III		Genetics and Evolution Practical II	4	4	3	40	60	1
Tartin	-	Allied Courses	3	-	-	-	-	
	BDCH3A	Fundamentals of chemistry	4	4	3	40	60	1
	-	Volumetric Estimation	2				_	
		Total		-	-	-	-	-
Semester	· IV	Total	30	19				5
Part I	BDGT41/	கவிதை இலக்கியமும் சிறுகதையும்				1	1	-
Farti	BDGH41/	Hindi Language Course -IV/	6	3	3	40	60	1
	BDGF41	French Language Course – IV	~	5		40	00	1
Part II	BDGE41	Communicative English-IV	6	3	3	40	60	-
		Major Courses					60	10
	BDBT41	Biochemistry	5	5	3	40	60	10
Part III	BDBT4L	Practical II	3	4	3	50	50	10
		Allied Course		-				-
	BDCH4A	Physical and Industrial Chemistry	4	4	3	40	60	10
	BDCH4AL	Volumetric Estimation	2	2	3	50	50	10
	BD4N	Non Major Elective Course	2	2	2	40	60	10
Part IV		Skill Based Course		-			00	10
	BDBT4DSL	Discipline Specific Course	2	2	3	50	50	10
		Techniques in Biosciences Practical						1
Semester	V	Total	30	25				80
Semester		Major Courses						
	BDBT51	Taxonomy of Angiosperms	6	5	3	40	60	100
	BDBT5L	Practical III						100
	BDB13E		6	5	3	50	50	100
	-	Practical IV	3	-	-	-	-	-
Part III	BDBT5V	Internship/ On – The - Job Training	-	1	-	-	100	100
	BDBT5E1/	Major Elective Courses						
	BDB15E17	Horticulture and Forestry/	5	5	3	40	60	100
	BDBT5E3	Microbiology and Plant Pathology						
	BDBT5E4	Herbal Medicine	5	4	3	40	60	100
	BD5N	Non Major Elective Course	2					
Part IV		Skill Based Course	2	2	2	40	60	100
a menomente	BDCG51	Career Guidance	2	2	2	40	60	100
	-	Library and Information Science	1					
					-	-	-	-
	/ Field visit ma	Total ndatory for the course BDBT5L - Practic	30	24				700
Study tour	/I	idatory for the course BDB15L - Practic	calIII					
Study tour Semester V								
Study tour Semester V	-	Major Courses						
Semester V	BDBT61	Major Courses Plant Physiology	6	5	3	40	60	100
Study tour Semester V Part III	BDBT61						10.00 M	
Semester V	BDBT61 BDBT62 BDBT6L1	Plant Physiology	6 5 3	5 5 3	3 3 3	40 40 50	60 60 50	100 100 100



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY 2020 AND LATER

	PDPT6F1/	Major Elective Course Ecology and Biodiversity /	5	5	3	40	60	100
	BDBT6E2	Immunology						
	BDSE/ BDJO	Self Employment/ Job Oriented courses – Theory	2	2	2	40	60	100
Part IV	BDSE/ BDJO	Self Employment/ Job Oriented courses – Practical	2	2	3	50	50	100
	-	Library and Information Science	1	-	-	-	-	-
		Total	30	27				700

COURSES OFFERED FOR OTHER MAJOR STUDENTS

Ħ			a		of rs.)	Ma	rks Allo	otted
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total
Semester I	(II)		· · · · ·					
Part III	BDBT3A	Allied Courses for Chemistry Major Students Fundamentals of Biochemistry	4	4	3	40	60	100
	-	Allied Practical	2	-	-	-	-	-
Semester	~							
Part III	BDBT4A	Allied Courses for Chemistry Major Students Microbiology and Biotechnology	4	4	3	40	60	100
	BDBT4AL	Allied Practical	2	2	3	50	50	100
Part IV	BDBT4N	Non Major Elective Course Freshwater Aquaculture	2	2	2	40	60	100
Semester V	v							
Part IV	BDBT5N	Non Major Elective Course Sericulture	2	2	2	40	60	100
Semester V	VI							
Part IV	BDSE68	Skill Based Courses (Open to all) Self Employment Courses Herbal Cosmetics	2	2	2	40	60	100
r	BDSE68L	Herbal Cosmetics Practical	2	2	3	50	50	100

B. 27. (B. DEFPA) Signature of the HOD

Head of the Dept. of Botany The Standard Fireworks Rajaratnam College for Women, Sivakasi. T.Palanessi Signature of the Principal PRINCIPAL The Standard Fireworks Rajaratnein College for Women, SIVAKASI



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

PERCENTAGE OF SYLLABUS REVISION 2017 AND LATER



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI. DEPARTMENT OF BOTANY

> B.Sc. Botany with specialization in Plant Biotechnology – GLBP (For those who have joined in June 2017 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	5
4.	Part IV	7
	Total	20

: 40

: 50%

Total Number of Courses having changes : 20

Total Number of Courses

Percentage of Revision

B - AL-(8 - D EEPA) Signature of the HOD

Head of the Dept. of Botany The Standard Fireworks Rajaratnam College for Women, Sivakasi. T-Palamers: Signature of the Principal Dr. T. Palaneeswari PRIMITENL The Store Works Rajar Silvaras Tor Women, SiVAKASI.



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2017 AND LATER

THES		DEPARTN H SPECIALIZA	IENT OF ATION IN ROGRA f Hours a	BOTA PLAN MME) nd Cred	NY T BIOTI lits	er)	LOGY	AKASI.	
	Subject		I	II	Ш	IV	er V	VI	Total No.of Credits
Part I - Tamil la	nguaga coursa		6(3)	6(3)	6(3)	6(3)	-	-	12
	h Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12
	r and Allied Course	s:	()	0(5)	0(5)	0(0)		L	
i art in – Major		Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)	
	Theory	Course II	3(3)	-	3(3)	-	5(5)	5(5)	
a) Major		Course III	-	-	-	-	5(5)	5(5)	
a) Major		Lab I	3(*)	3(4)	3(*)	3(4)	6(5)	6(5)]
	Practical	Lab II	-	-	-	-	3(*)	3(3)	
b)Allied I & II		Theory	4(4)	4(4)	4(4)	4(4)	-	-	1
o)Amed I de M		Lab	2(*)	2(2)	2(*)	2(2)	-	-	1
Total No.of Cre	dits	540	11	15	11	15	20	23	95
	Aajor/ Value Added	Courses							
Peace Education			2(2)	-	-	-	-	-	
Environmental S	tudies		-	2(2)	-	-	-	-	
i) NME I			-	-	2(2)	-	-	-	
ii) NME II			-	-	-	2(2)	-	-	
i) Computer Lite	racy		-	2(2)	-	-	-	-	
ii) Discipline Sp			-	-	-	2(2)	-	-	
iii) Career Guida	ance and Subject Vi	va	-	-	-		2(2)	-	
iv) Women Stud	ies		-	-	-	-	2(2)	-	
v) Skill Based Co Oriented courses	ourses :Self Employ	ment/ Job	-	-	-	-	-	2(2)	
vi) Skill Based C	-	-	-	-	-	2(2)			
Oriented courses					1(*)	1(*)			
f) Library and Information Science			-	-	- 2	- 4	1(*)	1(*)	20
Total No.of Cre	2	4	-		4	4	20		
Part V - Extens	ion Activities- Phys	ical Education &	x Social A	warene	ss Progr	amme			
Activities/Youth	ical Education/Extended h Red Cross/Social bbon Club/Envirron	Service	(*)	(1)	-	-	-	-	1
Total	insumer club								140

B. AL, (B. DEEPA) Signature of the HOD

Head of the Dept. of Botany The Standard Fireworks Rajaratnam College for Women, Sivakasi, 49 T-Palanees Signature of the Principal Dr. T. Palaneeswari Pix'MCIPAL The Standard Firework. Rajaratnam College for Women, SIVAKASI.



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2017 AND LATER

THE		EWORKS RAJARATNAM COLLEGE F DEPARTMENT OF BOT B.Sc. Botanywith Specialization in Pla (For those who have joined in 2/ ME BASED EDUCATION WITH CHOIC PROGRAMME CODE – PROGRAMME SCHE	ANY nt Biotechno 017 and late E BASED C GLBP	ology er)		5), SIV	AKASI		
Ħ					of (:s	Marks Allotted			
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total	
Semester I			I					I	
Part I	GLGT11/ GLGH11/ GLGF11	சங்க இலக்கியமும் உரைநடையும/ Hindi Language Course – I/ French Language Course - I/	6	3	3	25	75	100	
Part II	GLEN11	Communicative English-I	6	3	3	25	75	100	
	GLBP11	Plant Diversity-I	4	4	3	25	75	100	
	GLBP12	Cell Biology and Plant Anatomy	3	3	3	25	75	100	
Part III	-	Practical I	3	-	-	-	-	-	
Construction of the local division of the lo	GLBP1A	Animal Biotechnology I	4	4	3	25	75	100	
	-	Allied Practical	2	-	-	-	-	-	
Part IV	GLPE11	Peace Education	2	2	2	25	75	100	
Tartiv		Total	30	19	2	25	15	600	
Semester II		Total	50	19				000	
Part I	GLGT21/	காப்பிய இலக்கியமும் புதினமும்							
Part	GLGH21/ GLGF21	Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100	
Part II	GLEN21	Communicative English-II	6	3	3	25	75	100	
	GLBP21	Plant Diversity-II	5	5	3	25	75	100	
Part III	GLBP2L	Practical I	3	4	3	40	60	100	
rart III	GLBP2A	Animal Biotechnology II	4	4	3	25	75	100	
	GLBP2AL	Allied Practical	2	2	3	40	60	100	
	GLES21	Value Added Course Environmental studies	2	2	2	25	75	100	
Part IV	GLCL23	Value Added Course Introduction to Computers and MS	2	2	2	25	75	100	
Part V	-	Extension Activities – Physical Education and Social Awareness Programme		1				100	
		Total	30	26				900	
Semester II									
Part I	GLGT31/ GLGH31/ GLGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course – III / French Language Course – III	6	3	3	25	75	100	
Part II	GLEN31	Communicative English-III	6	3	3	25	75	100	
	GLBP31	Embryology and Plant tissue culture	4	4	3	25	75	100	
Part III	-	Practical II	3	-	-	-	-	-	
	GLBP32	Genetics	3	3	3	25	75	100	
	GLCH3A	Allied Courses Fundamentals of chemistry	4	4	3	25	75	100	
	-	Volumetric Estimation	2	-	-	-	-	-	
Part IV	GLNM	Non Major Elective I	2	2	2	25	75	100	



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2017 AND LATER

		Total	30	19				600
Semester IV								
Part I	GLGT41/ GLGH41/	கவிதை இலக்கியமும் சிறுகதையும Hindi Language Course -IV/	6	3	3	25	75	100
	GLGF41	French Language Course – IV	6	3	3	25	75	100
Part II	GLEN41	Communicative English-IV	6	5	3	25	75	100
	GLBP41	Biochemistry		4	3	40	60	100
	GLBP4L	Practical II	3			25	75	100
Part III	GLCH4A	Physical and Industrial Chemistry	4	4	3			100
	GLCH4A	Volumetric Estimation	2	2	3	25	75	100
	GLNM	Non Major Elective II	2	2	2	25	75	100
Part IV	GLBP4DS	Discipline Specific Course Food Processing Technology	2	2	2	25	75	100
		Total	30	25				800
Semester V	1							
	GLBP51	Taxonomy of Angiosperms	6	5	3	25	75	100
	GLBP5E1/ GLBP5E3	Elective Course Microbiology and Plant Pathology/ Natural Resources	5	5	3	25	75	100
Part III	GLBP5E2/	Elective Course	5	5	3	25	75	100
	GLBP5E4	Horticulture/ Herbal Medicine	-	-	-	10	10	100
	GLBP5L	Practical III	6	5	3	40	60	100
	-	Practical IV	3	-	-	-	-	-
Part IV	GLGV51	Value Added Course Career Guidance and Subject Viva	2	2	2	25	75	100
	GLWS51	Value Added Course Women's Studies	2	2	2	25	75	100
	-	Library and Information Science	1	-	-	-	-	-
		Total	30	24				600
Semester V	/I							
o e me e e e e	GLBP61	Plant Physiology	6	5	3	25	75	100
	GLBP62	Biotechnology	5	5	3	25	75	100
Part III	GLBP6E1/ GLBP6E2	Elective course Ecology and Biodiversity/ Economic Botany	5	5	3	25	75	100
	GLBP6L1	Practical IV	3	5	3	40	60	100
	GLBP6L2	Practical V	6	3	3	40	60	100
	OLDF0L2	Skill Based Courses				10	00	100
	GLSE/ GLJO	(Open to all) Self Employment/ Job Oriented courses – Theory	2	2	2	25	75	100
Part IV	GLSE/ GLJO	Self-Employment/ Job Oriented	2	2	3	40	60	100
	-	Library and Information Science	1	-	-	-	-	-
	1	Total	30	27				700



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF BOTANY

COURSES OFFERED FOR OTHER MAJOR STUDENTS

Ħ					of rs.)	Mar	rks Allo	otted
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total
Semester I	11							
Part III	GLBP3A	Allied Courses for Chemistry Major Students Fundamentals of Biochemistry	. 4	4	3	25	75	100
	GLBP3AL	Allied Practical	2 '	-	-	-		-
Part IV	GLBP3N	Non Major Elective Course Freshwater Aquaculture	2	2	2	25	75	100
Semester l	IV							1
Part III	GLBP4A	Allied Courses for Chemistry Major Students Microbiology and Biotechnology	4	4	3	25	75	100
	GLBP4AL	Allied Practical	2	2	3	40	60	100
Part IV	GLBP4N	Non Major Elective Course Sericulture	2	2	2	25	75	100
	GLBP4DS	Discipline Specific Course Food processing technology	2	2	2	25	75	100
Semester '	VI							
Part IV	GLSE68	Skill Based Courses (Open to all) Self Employment Courses / JOC Herbal Cosmetics	2	2	2	25	75	100
	GLSE68L	Herbal Cosmetics Lab	2	2	3	40	60	100

B. Ch (B. DEEPA) Signature of the HOD

Head of the Dept. of Botany The Standard Fireworks Rajaratnam College for Women, Sivakasi. Signature of the Principal PRINCIPAL The Standard Fireworks Rejorntnain Collego for Women, SIVARASI



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC, College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)



NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

PERCENTAGE OF SYLLABUS REVISION 2014 AND LATER



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI. DEPARTMENT OF BOTANY

B.Sc. Botany with specialization in Plant Biotechnology – 14UBP (For those who have joined in June 2014 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	8
4.	Part IV	4
	Total	20

: 41

: 49 %

Total Number of Courses having changes : 20

Total Number of Courses

Percentage of Revision

(B. DEF/A) Signature of the HOD Head of the Dept. of Botany The Standard Fireworks Rajaratnam College for Women, Sivakasi.

J- Palaneesa: Signature of the Principal

PRINCIPAL The Standard Fireworks Rajaratnam Collego for Women, SIVAKASI



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI. DEPARTMENT OF BOTANY

B.Sc. Botany with specialization in Plant Biotechnology

Allotment of Hours and Credits

(For those admitted in June 2014 and later)

				Semester							
Subject			I	п	m	IV	v	VI	Total No.of Credits		
Part I - Tamil lar	guage course		6(3)	6(3)	6(3)	6(3)	_	-	12		
Part II - English			6(3)	6(3)	6(3)	6(3)	_		12		
Part III – Major				- (-)	- (-)	- (-)					
500		Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)			
a) Major	Theory	Course II	3(3)	-	3(3)	-	5(5)	5(5)			
		Course III	-	-	-	-	5(5)	5(5)			
	Practical	Lab I	3(*)	3(4)	3(*)	3(4)	6(5)	6(5)			
	Practical	Lab II	-	-	-	-	3(*)	3(3)			
b)Allied I & II Theory			4(4)	4(4)	4(4)	4(4)	-				
Lab			2(*)	2(2)	2(*)	2(2)	-	-			
Total No.of Credits			11	15	11	15	20	23	95		
Part IV – Non M	lajor/ Value .	Added Course	S					223			
Peace Education				- 1	-	1	-	-			
Environmental Studies			- ·	2(2)	-	-	-	-			
i) NME I				-	2(2)		-	-	1		
ii) NME II				-	-	2(2)	-	-			
i) Computer Liter		902 - 26894	-	2(2)	-		-	-			
ii) Soft Skill Enha		1521	-	-		2(2)	-	-			
iii) Career Guidar		ct Viva	-	-	-		2(2)	-]		
iv) Women Studi			-	-	-	-	2(2)	-			
v) Skill Based Co Job Oriented cour			-	-	-	-	-	2(2)			
vi) Skill Based Courses :Self Employment/ Job Oriented courses – Practical/Field work/ Project			-	-	-	-	-	2(2)	1		
	f) Library and Information Science				-	-	1(*)	1(*)	1		
Total No.of Credits				4	2	4	4	4	20		
Part V - Extensi	on Activities	- Physical Edu	cation d	& Socia	al Awai	reness F	rogran	ime			
NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League/Red Ribbon Club				(1)	_	-	-	-	1		
Total								140			



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY

2014 AND LATER

	B.Sc	DEPARTMENT OF B c. Botany with Specialization in (For those who have joined in 2 CHOICE BASED CREDIT PROGRAMME CODE - PROGRAMME SCH	Plant Bi 2014and la SYSTEM - 14UBP		ology			
Component	Course Code	Course Title	Teaching Hours Per Week	ţs	n of Irs.)	Marks Allott		
				Credits	Duration of Exam. (Hrs.)	Internal	External	Total
Semester	I		1				1	
Part I	14UGT11/ 14UGH11/ 14UGF11	தற்காலஇலக்கியம்/ Hindi Language Course – J/ French Language Course - I	6	3	3	25	75	10
Part II	14UGE11	Communicative English-I	6	3	3	25	75	10
	14UBP11	Plant Diversity-I	4	4	3	25	75	10
Part III	14UBP12	Plant Diversity-II	3	3	3	25	75	10
	-	Practical I	3	-	-	-	-	<u> </u>
	14UBP1A	Animal Biotechnology I	4	4	3	25	75	10
	-	Allied Practical	2	-	-	-	-	
Part IV	14UPE11	Peace Education	2	2	2	25	75	10
Total Semester	11		30	19				60
Part I	14UGT21/ 14UGH21/	பக்திஇலக்கியம்/ Hindi Language Course -II /	6	3	3	25	75	10
	14UGF21	French Language Course - IL	l ĭ l	2		23	15	
Part II	14UGE21	Communicative English-IL	6	3	3	25	75	10
	14UBP21	Cell Biology and Plant Anatomy	5	5	3	25	75	10
De est III	14UBP2L	Practical I	3	4	3	40	60	10
Part III	14UBP2A	Animal Biotechnology II	4	4	3	25	75	10
	14UBP2AL	Allied Practical	2	2	3	40	60	10
Part IV	14UES21	Value Added Course Environmental studies	2	2	2	25	75	10
	14UCL23	Value Added Course Introduction to Computers and MS office	2	2	2	25	75	10
Part V	-	Extension Activities – Physical Education and Social Awareness Programme	-	1	-	-	-	10
Total			30	26			-	90
Semester 1								
Part I	40G131/ 14UGH31/ 140GF31	காப்பியஇலக்கியம்/ Hindi Language Course –III /	6	3	3	25	75	10

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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2014 AND LATER

		French Language Course – III						
Part II	14UGE31	Communicative English-III	6	3	3	25	75	100
	14UBP31	Embryology and Biotechnology	4	4	3	25	75	100
Part III	-	Practical II	3	-	-	-	-	-
	14UBP32	Genetics and Biostatistics	3	3	3	25	75	100
	14UCH3A	Fundamentals of Chemistry	4	4	3	25	75	100
	-	Volumetric Estimation	2	-	-	-	-	<u> </u>
Part IV	14U3N	Non Major Elective I	2	2	2	25	75	100
Total			30	19				600
Semester	IV							000
Part I 💙	14UGT41/7 14UGH41/ 14UGF41	சங்கஇலக்கியம்/Hindi Language Course - IV/ French Language Course - IV	6	3	3	25	75	100
Part II	140GF41	Communicative English-IV	6	3		25	76	100
	14UBP41	Biochemistry and Biotechniques	5	5	3	25	75	100
	14UBP4L	Practical II	3	4	3	40	60	100
		Allied Course				40	00	100
Part III	14UCH4A	Pharmaceutical and Industrial Chemistry	4	4	3	25	75	100
	14UCH4AL	Volumetric Estimation	2	2	3	25	75	100
Part IV	14U4N	Non Major Elective II	2	2	2	25	75	100
Fartiv	14USK41	Soft Skill Enhancement	2	2	-	40	60	100
Total			30	25				800
Semester '	V							1 000
	14UBP51	Taxonomy of Angiosperms	6	5	3	25	75	100
	and the second	Elective Course I	5	5	3		75	100
	14UBP5E1/	Microbiology and Plant				25		
Part III	14UBP5E3	Pathology/	5			25	13	100
	14UBP5E2/	Natural resources Elective Course II						
	14UBP5E4	Horticulture/ Herbal Medicine	5	5		25	75	100
	14UBP5L	Practical III	6	5		10		
	-	Practical IV	3	-	3	40	60	100
		Value Added Course	3		-	-	-	
Part IV	14UGV51/ 15UGV51	Career Guidance and Subject Viva	2	2	2	25	75	100
	14UWS51	Value Added Course Women Studies	2	2	2	25	75	100
	-	Library and Information Science	1	-	-	-		
Total			30	24		+ -		600
Semester '	VI					1		1 000
	14UBP61	Plant Physiology	6	5	3	25	75	100
Part III	14UBP62	Applied Biotechnology	5	5	3	25	75	100
	14UBP6E1/ 14UBP6E2	Elective Course III Economic Botany/Ecology and	5	5	3	25	75	100



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DEPARTMENT OF BOTANY PERCENTAGE OF SYLLABUS REVISION B.Sc. BOTANY WITH SPECIALIZATION IN PLANT BIOTECHNOLOGY 2014 AND LATER

Total	-	Library and Information Science	1 30	- 27	-	-	-	- 700
	14USE/ 14JO	Self Employment/ Job Oriented courses – Practical	2	2	3	40	60	100
Part IV	14USE/ 14JO	Skill Based Courses (Open to all) Self Employment/ Job Oriented courses – Theory	2	2	2	25	75	100
	14UBP6L2	Practical V	3	3	3	40	60	100
	14UBP6L1	Practical IV	6	5	3	40	60	100

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF BOTANY

COURSES OFFERED FOR OTHER MAJOR STUDENTS

lent			80 X		of rs.)	Marks Allotted		
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total
Semester	III							L
Part III	14UBP3A	Allied Courses for Chemistry Major Students Fundamentals of Biochemistry	4	4	3	25	75	100
	_	Allied Practical	2	-	-	-	-	-
Part IV	14UBP3N	Non Major Elective Course Freshwater Aquaculture	2	2	3	25	75	100
Semester	Semester IV							
Part III	14UBP4A	Allied Courses for Chemistry Major Students Microbiology and Biotechnology	4	4	3	25	75	100
	14UBP4AL	Allied Practical	2	2	3	40	60	100
Part IV	14UBP4N	Non Major Elective Course Sericulture	2	2	3	25	75	100
	14UBP4DS	Discipline Specific Course Food processing technology	2	2	2	25	75	100
Semester	VI							
Part IV	14USE68	Skill Based Courses (Open to all) Self Employment Courses Herbal Entrepreneurship	2	2	3	25	75	100
	14USE68L	Herbal Entrepreneurship Lab	2	2	3	40	60	100

B. (S. DEEPA) Signature of the HOD Head of the Dept. of Botany The Standard Fireworks Rajaratnan College for Women, Sivakasi.

Frederetsout Signature of the Principal PRINCIPAL The Standard Firework Rajaratnam College for Women, SIVAKASI