



**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**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.Sc. CHEMISTRY
2020 AND LATER

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI.
DEPARTMENT OF CHEMISTRY
B. SC CHEMISTRY – PROGRAMME CODE: BDCH
(For those who have joined in June 2020 and later)**

S.No.	Components	Number of courses having changes	Total no. Courses
1.	Part I	4	4
2.	Part II	2	4
3.	Part III	13	24
4.	Part IV	1(DSC)+1(GK)+1(VE&GS)	9
Total		22	41

Total Number of Courses having changes :22

Total Number of Courses :41

Percentage of Revision :53.6%

M. Soubhramani
Signature of the HOD with Seal
Head of the Department of Chemistry,
S.F.R. College for Women, Sivakasi.

T. Palaniselvi
PRINCIPAL
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI – 626 123.

(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 CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

B.Sc. CHEMISTRY

2020 AND LATER

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

OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM

DEPARTMENT OF CHEMISTRY

B.Sc. CHEMISTRY

PROGRAMME CODE – BDCH

PROGRAMME SCHEME

(For those who have joined in 2020 and later)

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester I								
Part I	BDGT11/ BDGH11/ BDGF11	சங்கஇலக்கியமும்உரைநடையும் Hindi Language Course – I / French Language Course – I	6	3	3	40	60	100
Part II	BDGE11	English for communication- I	6	3	3	40	60	100
Part III	BDCH11	Major Courses Inorganic Chemistry-I	4	4	3	40	60	100
	BDCH12	Physical Chemistry-I	3	3	3	40	60	100
	-	Practical-I	3	-	-	-	-	-
Allied Courses	BDPH1A	Allied Courses Fundamental Physics	4	4	3	40	60	100
	BDPH2AL	Fundamental Physics Lab	2	-	-	-	-	-
Part IV	BDES11	Value Added Course Environmental studies	2	2	2	40	60	100
Total			30	19				600
Semester II								
Part I	BDGT21/ BDGH21/ BDGF21	அறஇலக்கியமும்தன்முன்னேற்றக் கட்டுரைகளும் / Hindi Language Course -II / French Language Course – II	6	3	3	40	60	100
Part II	BDGE21	English for communication- II	6	3	3	40	60	100
Part III	BDCH21	Major Courses Organic Chemistry –I	5	5	3	40	60	100
	BDCH2L	Inorganic Qualitative Analysis	3	4	3	50	50	100
	BDPH2A	Allied Courses Solid state physics & digital electronics	4	4	3	40	60	100
	BDPH2AL	Fundamental Physics Lab	2	2	3	50	50	100
Part IV	BDVG21	Value Added Course Value Education & Gender Studies	2	2	2	40	60	100
	BDCL23	Skill Based Course Introduction to Computers & MS office	2	2	2	40	60	100
Part V	BDSA2	Social Awareness Programme and Physical Education	-	1	-	-	-	100
Total			30	26				900



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI – 626 123.

(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 CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

B.Sc. CHEMISTRY

2020 AND LATER

Semester III								
Part I	BDGT31/ BDGH31/ BDGF31	சமீப இலக்கியமும் நூல்-கமும் Hindi Language Course –III / French Language Course – III	6	3	3	40	60	100
Part II	BDGE31	English for Enrichment - I	6	3	3	40	60	100
Part III	BDCH31	Major Courses Organic Chemistry –II	5	5	3	40	60	100
	BDCH32	Inorganic Chemistry –II	4	4	3	40	60	100
	-	Practical II	3	-	-	-	-	-
	BDMT3A1/ BDBT3A BDBT4AL	Allied Courses Allied Mathematics –I/Fundamentals of Biochemistry Fundamentals of Biochemistry, Microbiology and Biotechnology	6/4 2	5/4 -	3 -	40 -	60 -	100 -
Total			30	20/19				500
Semester IV								
Part I	BDGT41/ BDGH41/ BDGF41	கவிதை இலக்கியமும் சிறுகதைகளும் Hindi Language Course –IV/ French Language Course – IV	6	3	3	40	60	100
Part II	BDGE41	English for Enrichment - II	6	3	3	40	60	100
Part III	BDCH41	Major Courses Physical Chemistry-II	5	5	3	40	60	100
	BDCH4L	Volumetric Estimation	3	4	3	50	50	100
	BDMT4A1/ BDBT4A BDBT4AL	Allied Course Allied Mathematics –II/Microbiology and Biotechnology Fundamentals of Biochemistry, Microbiology and Biotechnology	6/4 2	5/4 2	3 3	40 50	60 50	100 100
	BD4N	Non Major Elective Course-I	2	2	2	40	60	100
Part IV	BDCH4DSL	Skill Based Course Discipline Specific Course Cheminformatics-Practical	2	2	3	50	50	100
Total			30	24/25				800
Field visit mandatory for the course BDCH4DSL - Discipline Specific Course								
Semester V								
Part III	BDCH51	Major Courses Organic Chemistry –III	6	5	3	40	60	100
	BDCH5L	Physical Chemistry Practical	6	5	6	50	50	100
	-	Practical-IV	3	-	-	-	-	-
	BDCH5V	Internship/ On –the - Job Training	-	1	-	-	100	100
Part IV	BDCH5E1 / BDCH5E2 BDCH5E3 / BDCH5E4	Major Elective Courses Inorganic Chemistry-III/ Non –Conventional energy resources Physical Chemistry –III/Computer Applications in Chemistry	5 5	5 4	3 3	40 40	60 60	100 100
	BDCG51	Skill Based Course Career Guidance	2	2	2	40	60	100
	BD5N	Non Major Elective Course-II	2	2	2	40	60	100
	-	Library and Information Science	1	-	-	-	-	-
Total			30	24				700
Study tour / Field visit mandatory for the major courses								



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

B.Sc. CHEMISTRY

2020 AND LATER

Semester VI								
Part III	BDCH61	Major Courses Physical Chemistry-IV	6	5	3	40	60	100
	BDCH62	Analytical Chemistry	5	5	3	40	60	100
	BDCH6L1	Organic analysis and Estimation	3	4	6	50	50	100
	BDCH6L2	Gravimetric estimation and preparation	6	4	6	50	50	100
	BDCH6E1/ BDCH6E2	Major Elective Course Organic Chemistry-IV/ Stereochemistry	5	5	3	40	60	100
Part IV	BDSE/ BDJO	Skill Based Courses (Open to all) Self Employment/ Job Oriented courses – Theory	2	2	2	40	60	100
	BDSE/ BDJO	Self Employment/ Job Oriented courses – Practical	2	2	3	50	50	100
	-	Library and Information Science	1	-	-	-	-	-
Total			30	27				700

T. Palavesi

PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.



**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
2017 AND LATER**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.SC CHEMISTRY
2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI.
DEPARTMENT OF CHEMISTRY
B. SC CHEMISTRY – PROGRAMME CODE: GLCH
(For those who have joined in June 2017 and later)

S.No.	Components	Number of courses having changes	Total no. Courses
1.	Part I	4	4
2.	Part II	4	4
3.	Part III	9	23
4.	Part IV	4(NME & JOC+DSC)+1(EVS)	10
Total		22	41

Total Number of Courses having changes :22

Total Number of Courses :41

Percentage of Revision :54 %

M. Sathyanarayana

Signature of the HOD with Seal
Head of the Department of Chemistry,
S.F.R. College for Women, Sivakasi.

J. Palavesan

PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

B.SC CHEMISTRY

2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FORWOMEN (AUTONOMOUS),
(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)
SIVAKASI
OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM
DEPARTMENT OF CHEMISTRY
B.Sc. Chemistry– PROGRAMME CODE – GLCH
PROGRAMME SCHEME
(For those who have joined in 2017 and later)

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester I								
Part I	GLGT11/ GLGH11/ GLGF11	சங்கஇலக்கியமும்உரைநடையும் Hindi Language Course – I / French Language Course – I	6	3	3	25	75	100
Part II	GLGE11	English for communication- I	6	3	3	25	75	100
Part III		Major Courses InorganicChemistry-I	4	4	3	25	75	100
	GLCH11	Physical Chemistry-I	3	3	3	25	75	100
	GLCH12	Semi micro Inorganic Qualitative Analysis	3	-	-	-	-	-
	GLPH1A	Allied Courses FundamentalPhysics	4	4	3	25	75	100
	-	Fundamental Physics Lab	2	-	-	-	-	-
Part IV	GLPE11	Peace education	2	2	2	25	75	100
Total			30	19				600
Semester II								
Part I	GLGT21/ GLGH21/ GLGF21	காபிய இலக்கியமும் புதினமும்/ / Hindi Language Course -II /French Language Course – II	6	3	3	25	75	100
Part II	GLGE21	English for communication- II	6	3	3	25	75	100
Part III		Major Courses Organic Chemistry –I	5	5	3	25	75	100
	GLCH21	Semi micro Inorganic Qualitative Analysis	3	4	3	40	60	100
	GLCH2L	Allied Courses Solid state physics & digital electronics	4	4	3	25	75	100
	GLPH2A	Fundamental Physics Lab	2	2	3	40	60	100
	GLPH2AL	Environmental studies	2	2	2	25	75	100
Part IV	GLES21	Environmental studies	2	2	2	25	75	100
Part IV	GLCL23	Skill Based Course Introduction to Computers & MS office	2	2	2	25	75	100
Part V	GLSA2	Social Awareness Programme and Physical Education	-	1	-	-	-	100
Total			30	26				900



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

B.SC CHEMISTRY

2017 AND LATER

Semester III								
Part I	GLGT31/ GLGH31/ GLGF31	சமய இலக்கியமும் நூலகமும் Hindi Language Course –III / French Language Course – III	6	3	3	25	75	100
Part II	GLGE31	Communicative English-III	6	3	3	25	75	100
Part III	GLCH31	Major Courses Organic Chemistry –II	3	3	3	25	75	100
	GLCH32	Inorganic Chemistry –II	4	4	3	25	75	100
		Practical-II :Volumetric Estimation	3	-	-	-	-	-
	GLMT3A1/ GLBP3A	Allied Courses Allied Mathematics –I/Fundamentals of Biochemistry	6/4	5/4	3	25	75	100
		Fundamentals of Biochemistry, Microbiology and Biotechnology	2	-	-	-	-	-
Part IV	GLNM	Non Major Elective Course-I	2	2	2	25	75	100
Total			30	20/19				500
Semester IV								
Part I	GLGT41/ GLGH41/ GLGF41	கவிதை இலக்கியமும் சிறுகதையும் Hindi Language Course -IV/ French Language Course – IV	6	3	3	25	75	100
Part II	GLGE41	English for Enrichment - II	6	3	3	25	75	100
Part III	GLCH41	Major Courses Physical Chemistry-II	5	5	3	25	75	100
	GLCH4L	Practical-II : Volumetric Estimation	3	4	3	25	75	100
	GLMT4A1/G LBP4A	Allied Courses Allied Mathematics –II/Microbiology and Biotechnology	6/4	6/4	3	25	75	100
	GLBP4AL	Fundamentals of Biochemistry, Microbiology and Biotechnology	2	2	3	40	60	100
Part IV	GLNM	Non Major Elective Course-II	2	2	2	25	75	100
	GLCH4DSL	Skill Based Course – Discipline Specific Course Cheminformatics-Practical	2	2	2	40	60	100
Total			30	24/25				800
Field visit mandatory for the course GLCH4DSL - Discipline Specific Course								
Semester V								
Part III	GLCH51	Major Courses Organic Chemistry –III	6	5	3	25	75	100
	GLCH5L1	Practical - III Physical Chemistry Practical	6	5	6	40	60	100
		Practical - IV Organic analysis and Estimation	3	-	-	-	-	-
	GLCH5E1 / GLCH5E2	Major Elective Courses Inorganic Chemistry-III/ Non –Conventional energy resources	5	5	3	25	75	100
	GLCH5E3 / GLCH5E4	Physical Chemistry –III/Computer Applications in Chemistry	5	5	3	25	75	100
Part IV	GLGV51	Skill Based Course Carrier Guidance and Subject Viva	2	2	2	25	75	100
	GLWS51	Women's Studies	2	2	2	25	75	100
	-	Library and Information Science	1	-	-	-	-	-
Total			30	24				700
Semester VI								
Part III	GLCH61	Major Courses Physical Chemistry-IV	6	5	3	25	75	100



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.SC CHEMISTRY
2017 AND LATER

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

SIVAKASI

DEPARTMENT OF CHEMISTRY

B.Sc. CHEMISTRY- PROGRAMME CODE: GLCH

OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM

COURSES OFFERED FOR OTHER MAJOR STUDENTS

(For those who have joined in 2017 and later)

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester I								
Part III	GLCH1A	Fundamentals of Chemistry	4	4	3	25	75	100
		Allied Practical: Volumetric Estimation						
Semester II								
Part III	GLCH2A	Solid state physics & digital electronics	4	4	3	25	75	100
	GLCH2AL	Allied Practical: Volumetric Estimation	2	2	3	50	50	100
Semester III								
Part III	GLCH3A	Fundamentals of Chemistry	4	4	3	40	60	100
	-	Allied Practical: Volumetric Estimation	2	-	-	-	-	-
Semester IV								
Part III	GLCH4A	Physical and Industrial Chemistry	4	4	3	40	60	100
	GLCH4AL	Allied Practical: Volumetric Estimation	2	2	3	50	50	100
Part IV	GLCH3N	Non Major Elective Course-I Chemistry in Daily life	2	2	2	40	60	100
Semester V								
Part IV	GLCH4N	Non Major Elective Course-II Industrial Chemistry	2	2	2	40	60	100
Semester VI								
Part IV	GLSE63	Skill Based Courses (Open to all) Self Employment Courses Basics of Printing Processes	2	2	2	40	60	100
	GLSE63L	Printing Primer Practical	2	2	3	50	50	100



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.SC CHEMISTRY
2017 AND LATER

	GLCH62	Principal And Application Of Analytical Techniques	5	5	3	25	75	100
	GLCH6L1	Organic analysis and Estimation	3	3	6	40	60	100
	GLCH6L2	Gravimetric estimation and preparation	6	5	6	40	60	100
	GLCH6E1/ GLCH6E2	Major Elective Course Chemistry of Natural Products/ Stereochemistry	5	5	3	25	75	100
Part IV	GLSE/ GLJO	Skill Based Courses (Open to all) Self Employment/ Job Oriented courses – Theory	2	2	2	25	75	100
	GLSE/ GLJO	Self Employment/ Job Oriented courses – Practical	2	2	3	40	60	100
	-	Library and Information Science	1	-	-	-	-	-
Total			30	27				700

T. Palanivesi
PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.



**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**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.Sc. CHEMISTRY
2014 AND LATER

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI.**
DEPARTMENT OF CHEMISTRY
B. Sc CHEMISTRY – Programme code: 14UCH
(For those who have joined in June 2014 and later)

S.No.	Components	Number of courses having changes	Total no. Courses
1.	Part I	4	4
2.	Part II	4	4
3.	Part III	3	23
4.	Part IV	2	9
Total		13	40

Total Number of Courses having changes : 13

Total Number of Courses : 40

Percentage of Revision : 32.5%

M. Suresh Kumar,
Signature of the HOD with Seal
Head of the Department of Chemistry,
S.F.R. College for Women, Sivakasi.

T. Palavesu
PRINCIPAL
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.Sc. CHEMISTRY
2014 AND LATER

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN,
SIVAKASI**
UG Chemistry – Allotment of Hours and Credits
(For those joined in June 2014 and later)

Courses		Semester						Total No. of Credits
		I	II	III	IV	V	VI	
Language Courses								
Part I – Tamil Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part II - English Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12
Part III – Major and Allied Courses								
b) Major	Theory	Course I	4(4)	5(5)	4(4)	5(5)	6(5)	6(5)
		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)	-
		Lab II	-	-	-	-	3(*)	3(3)
		Lab III	-	-	-	-	-	6(5)
c) Allied I & II								
Theory		4(4)	4(4)	4(4)	4(4)	-	-	
Lab		2(*)	2(2)	2(*)	2(2)	-	-	
Total		11	15	11	15	20	23	95
Part IV Non Major/Value Added Courses								
Peace Education		2(2)	-	-	-	-	-	
Environmental Studies		-	2(2)	-	-	-	-	
I. NME I		-	-	2(2)	-	-	-	
II. NME II		-	-	-	2(2)	-	-	
1. Computer literacy		-	2(2)	-	-	-	-	
2. Soft Skill enhancement		-	-	-	2(2)	-	-	
3. Career Guidance and Subject Viva		-	-	-	-	2(2)	-	
4. Women Studies		-	-	-	-	2(2)	-	
5. Skill Based Courses : Self Employment / Job Oriented Courses – Theory		-	-	-	-	-	2(2)	
6. Skill Based Courses : Self Employment / Job Oriented Courses – Practical / Field work / Project		-	-	-	-	-	2(2)	
Library and Information Science		-	-	-	-	1(*)	1(*)	
Total No.of Credits		2	4	2	4	4	4	20
Part V – Extension Activities/Social Awareness/Physical Education								
NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League/Red Ribbon Club		1(*)	1(1)	-	-	-	-	1
Total Credits								140

M. Suresh Kumar
Head of the Department of Chemistry,
S.F.R. College for Women, Sivakasi.

UG Chem. 5

T. Palavesi
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.
 (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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.Sc. CHEMISTRY
2014 AND LATER

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

SIVAKASI
CHOICE BASED CREDIT SYSTEM
DEPARTMENT OF CHEMISTRY
B.Sc CHEMISTRY-PROGRAMME CODE: 14UCH
PROGRAMME SCHEME

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester I								
Part I	14UGT11/ 14UGH11/ 14UGF11	தற்கால இலக்கியம்/Hindi Language Course – I / French Language Course – I	6	3	3	25	75	100
Part II	14UGE11	Communicative English - I	6	3	3	25	75	100
Part III	14UCH11	Major Courses Inorganic Chemistry-I	4	4	3	25	75	100
	14UCH12	Physical Chemistry-I	3	3	3	25	75	100
		Semi micro Inorganic Qualitative Analysis	3	-	-	-	-	-
	14UPH1A	Allied Courses Electricity and Electronics	4	4	3	25	75	100
	-	Fundamental Physics Lab	2	-	-	-	-	-
Part IV	14UPE11	Peace education	2	2	2	25	75	100
Total			30	19				600
Semester II								
Part I	14UGT21/ 14UGH21/ 14UGF21	பக்தி இலக்கியம் / Hindi Language Course -II /French Language Course – II	6	3	3	25	75	100
Part II	14UGE21	Communicative English - II	6	3	3	25	75	100
Part III	14UCH21	Major Courses Organic Chemistry –I	5	5	3	25	75	100
	14UCH2L	Semi micro Inorganic Quantitative Analysis	3	4	3	40	60	100
	14UPH2A	Allied Courses Solid state physics & digital electronics	4	4	3	25	75	100
	14UPH2AL	Fundamental Physics Lab	2	2	3	40	60	100
	14UES21	Environmental studies	2	2	3	25	75	100
Part IV	14UCL23	Skill Based Course Introduction to Computers & MS office	2	2	3	25	75	100
Part V	14USA2	Social Awareness Programme and Physical Education	-	1	-	-	-	100
Total			30	26				900
Semester III								
Part I	14UGT31/ 14UGH31/ 14UGF31	காப்பிய இலக்கியம் Hindi Language Course –III /	6	3	3	25	75	100



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI – 626 123.

(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 CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

B.Sc. CHEMISTRY

2014 AND LATER

Part II	14UGE31	French Language Course – III Communicative English -III	6	3	3	25	75	100
Part III	14UCH31	Major Courses Organic Chemistry –II	3	3	3	25	75	100
	14UCH32	Inorganic Chemistry –II	4	4	3	25	75	100
		Practical-II :Volumetric Estimation	3	-	-	-	-	-
	14UMT3A1/ 14UBP3A	Allied Courses Allied Mathematics –I/Fundamentals of Biochemistry	6/4	5/4	3	25	75	100
-		Fundamentals of Biochemistry, Microbiology and Biotechnology	2	-	-	-	-	-
Part IV	14UNM	Non- Major Elective Course-I	2	2	3	25	75	100
Total			30	20/19	M/B			500
Semester IV								
Part I	14UGT41/ 14UGH41/ 14UGF41	சங்க இலக்கியம் Hindi Language Course -IV/ French Language Course – IV	6	3	3	25	75	100
Part II	14UGE41	Communicative English - IV	6	3	3	25	75	100
Part III	14UCH41	Major Courses Physical Chemistry-II	5	5	3	25	75	100
	14UCH4L	Practical-II : Volumetric Estimation	3	4	3	25	75	100
	14UMT4A1/ 14UBP4A	Allied Course Allied Mathematics –II/Microbiology and Biotechnology	6/4	6/4	3	25	75	100
	14UBP4AL	Fundamentals of Biochemistry, Microbiology and Biotechnology	2	2	3	40	60	100
Part IV	14UNM	Non- Major Elective Course-II	2	2	3	25	75	100
	14UCH4DSL	Skill Based Course Discipline Specific Course Cheminformatics-Practical	2	2	3	40	60	100
Total			30	24/25	M/B			800
Semester V								
Part III	14UCH51	Major Courses Organic Chemistry –III	6	5	3	25	75	100
	14UCH5L	Practical - III Physical Chemistry Practical	6	5	6	40	60	100
		Practical - IV Organic analysis and Estimation	3	-	-	-	-	-
	14UCH5E1/ 14UCH5E2	Major Elective Courses Inorganic Chemistry-III/ Non –Conventional energy resources	5	5	3	25	75	100
	14UCH5E3/ 14UCH5E4	Physical Chemistry –III/Computer Applications in Chemistry	5	5	3	25	75	100
Part IV	14UGV51	Skill Based Course Carrier Guidance and Subject Viva	2	2	2	25	75	100
	14UWS51	Women's Studies	2	2	2	25	75	100
	-	Library and Information Science	1	-	-	-	-	-
Total			30	24				700
Semester VI								
Part III	14UCH61	Major Courses Physical Chemistry-IV	6	5	3	25	75	100
	14UCH62	Principal And Application Of Analytical Techniques	5	5	3	25	75	100



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.Sc. CHEMISTRY
2014 AND LATER

	14UCH6L1	Organic analysis and Estimation	3	3	6	40	60	100
	14UCH6L2	Gravimetric estimation and preparation	6	5	6	40	60	100
	14UCH6E1/ 14UCH6E2	Major Elective Course Chemistry of Natural Products/ Stereochemistry	5	5	3	25	75	100
Part IV	14USE/ 14UJO	Skill Based Courses (Open to all) Basics of Printing Processes	2	2	2	25	75	100
	14USE/ 14UJO	Basics of Printing Processes - Practical	2	2	3	40	60	100
	-	Library and Information Science	1	-	-	-	-	-
		Total	30	27				700



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(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 CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
B.SC CHEMISTRY
2014 AND LATER

Electives								
V	14UCH5E1	Inorganic chemistry - III	5	5	3	25	75	100
V	14UCH5E2	Non – conventional energy resources	5	5	3	25	75	100
V	14UCH5E3	Physical Chemistry - III	5	5	3	25	75	100
V	14UCH5E4	Computer Applications in Chemistry	5	5	3	25	75	100
VI	14UCH6E1	Chemistry of Natural Products	5	5	3	25	75	100
VI	14UCH6E2	Stereochemistry	5	5	3	25	75	100

Non Major Elective								
III	14UCH3N	Chemistry in Daily Life	2	2	3	25	75	100
IV	14UCH4N	Industrial chemistry	2	2	3	25	75	100

M. Sankaranarayanan
Head of the Department of Chemistry,
S.F.R. College for Women, Sivakasi.

T. Palaneeswari
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI