

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

1.1.3. COURSES FOCUS ON EMPLOYABILITY / ENTREPRENEURSHIP / SKILL DEVELOPMENT

COURSES FOCUS ON EMPLOYABILITY /
ENTREPRENEURSHIP / SKILL
DEVELOPMENT
B.SC. CHEMISTRY - 2017 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 CHEMISTRY **B.Sc. CHEMISTRY**

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/ SKILL DEVELOPMENT 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 UGCand Mentor Institution under UGC PARAMARSH) SIVAKASI
OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM CHOICE BASED CREDIT SYSTEM

DEPARTMENT OF CHEMISTRY B.Sc. Chemistry

THE SHEET

S. No	Semester	Course Code	Course Title	Focus on
1	1	GLCH11	Inorganic Chemistry -1	Employability
2	I	GLCH12	Physical Chemistry -I	Employability
3	1	GLCHIA	Fundamentals of Chemistry	Skill development
4	п	GLCH21	Organic Chemistry - I	Employability
5	11	GLCH2L	Semi Micro Inorganic Qualitative Analysis	Employability
6	п	GLCH2A	Physical and Industrial Chemistry	Skill development
7	11	GLCH2AL	Volumetric Estimations	Skill development
8	ш	GLCH31	Organic Chemistry-II	Skill development
9	Ш	GLCH32	Inorganic Chemistry-II	Employability
10	111	GLCH3A	Fundamentals of Chemistry	Skill development
11	m	GLCH3N	Chemistry in daily Life	Employability
12	IV	GLCH41	Physical Chemistry -II	Skill development
13	IV	GLCH4L	Volumetric Estimations-Practicals	Skill development
14	IV	GLCH4A	Physical and Industrial Chemistry	Skill development
15	IV	GLCH4AL	Volumetric Estimation-Practicals	Skill development
16	IV	GLCH4N	Industrial Chemistry	Employability
17	IV	GLCH4DSL	Chemistry for Entrepreneurs- Practicals	Entrepreneurship
18	٧	GLCH51	Organic and pharmaceutical Chemistry	Employability
20	v	GLCH5E1 / GLCH5E2	Elective I -Inorganic Chemistry- III/Non - conventional energy resources	Employability

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

J. Palaneous PRINCIPAL The Standard Fireworks

Rajaretnem Cellege for Women, SIVAKASI



(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

B.Sc. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/ SKILL DEVELOPMENT 2017 AND LATER

21	V	GLCH5E3 / GLCH5E4	Elective II -Physical Chemistry - III/Computer Applications in Chemistry	Employability
22	V	GLCH5L1	Physical Chemistry Practical	Skill development
24	VI	GLCH61	Physical Chemistry – IV	Employability
25	VI	GLCH62	Principle and application of analytical techniques	Skill development
26	VI	GLCH6L1	Organic analysis And estimation- Practicals	Employability
27	VI	GLCH6L2	Gravimetric estimations and inorganic preparations -Practicals	Skill development
28	VI	GLCH6E1/ GLCH6E2	Elective III -Chemistry of Natural Products/Stereochemistry	Employability
29	VI	GLSE63	Basics Of Printing Processes	Entrepreneurship
30	VI	GLSE63L	Printing Primer Practicals	Skill development

M. Sowtamani.

Head of the Department of Chemistry, S.F.R. College for Women, Sivakasi. PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI



(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)

COURSES FOCUS ON EMPLOYABILITY / ENTREPRENEURSHIP / SKILL DEVELOPMENT M.SC. CHEMISTRY - 2017 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 CHEMISTRY

M.Sc. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/ SKILL DEVELOPMENT 2017 AND LATER

A ... W. Co.

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 UGCanal Mentor Institution under UGC PARAMARSH)

SIVAKASI

OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM

DEPARTMENT OF CHEMISTRY

M.Sc. Chemistry

S. No	Semester	Course Code	Course Title	Focus on
1	1	HLCH11	Organic Chemistry - 1	Employability
2	1	HLCH12	Inorganic Chemistry - I	Employability
3	1	HLCH13	Physical Chemistry - I	Skill development
4	1	HLCHIE I	Pharmaceutical chemistry	Skill development
5	1	HLCHILI	Organic Chemistry Practicals I	Employability
6	E	HLCH1L2	Inorganic Chemistry Practicals -I	Skill development
7	п	HLCH21	Organic Chemistry - II	Skill development
8	п	HLCH22	Inorganic Chemistry – II	Employability
9	11	HLCH23	Physical Chemistry – II	Employability
10	п	HLCH2E	Safety Fireworks	Employability
11	11	HLCH2L1	Organic Chemistry Practicals-II	Employability
12	н	HLCH2L2	Physical Chemistry Practicals-I	Skill development
13	111	HLCH31	Organic Chemistry - III	Skill development
14	111	HLCH32	Inorganic Chemistry - III	Employability
15	m	HLCH33	Physical Chemistry - III	Employability
16	m	ньснзе	CSIR-UGC Net Prelims- Chemistrty	Skill development
17	ш	HLCH3L1	Inorganic Chemistry Practicals – II	Skill development
18	ш	HLCH3L2	Physical Chemistry Practicals – II	Skill development
19	IV	HLCH41	Organic Chemistry – IV	Employability
20	IV	HLCH42	Inorganic Chemistry - IV	Employability
21	IV	HLCH43	Physical Chemistry - IV	Employability
22	IV	HLCH4P	Project and Viva voce	Skill development
23	IV	HLCH4E1	Biochemistry	Employability

M- Southamani

Head of the Department of Chemistry. S.F.R. College for Women, Sivakasi, J. Palamesi

PRINCIPAL
The Standard Fireworks
Rajaratham College
for Women,
SIVAKASI



(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)

COURSES FOCUS ON EMPLOYABILITY / ENTREPRENEURSHIP / SKILL DEVELOPMENT M.PHIL. CHEMISTRY - 2017 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 CHEMISTRY

M.Phil. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/ SKILL DEVELOPMENT 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 UGCand Mentor Institution under UGC PARAMARSH)
SIVAKASI
CHOICE BASED CREDIT SYSTEM
DEPARTMENT OF CHEMISTRY

M.Phil. Chemistry

S. No	Semester	Course Code	Course Title	Focus on
1	1	RLCH11	Research Methodology	Skill Development
2	1	RLCH12	Course Work	Skill Development
3	1	RLCH13A	Advanced Organic Chemistry	Employability
4	1	RLCH13B	Advanced Inorganic Chemistry	Employability
5	1	RLCH13C	Advanced Physical Chemistry	Employability
6	п	RLCH2D	Dissertation	Skill Development
7	П	RLCH2V	Viva-voce	Skill Development

Dr. T. Palaneeswari PRINCIPAL The Standard Firsworks Rajaretnam College for Women, SIVAKASI.

S.F.R. College for Women, Signicals



(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)

COURSES FOCUS ON EMPLOYABILITY / ENTREPRENEURSHIP / SKILL DEVELOPMENT B.SC. CHEMISTRY - 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 CHEMISTRY

B.Sc. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/SKILL **DEVELOPMENT** 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 UGCand Mentor Institution under UGC PARAMARSH) SIVAKASI
CHOICE BASED CREDIT SYSTEM

DEPARTMENT OF CHEMISTRY B.Sc. Chemistry

417 - 425 - V

S. No	Semester	Course Code	Course Title	Focus on
1	1	14UCH11	Inorganic Chemistry – I	Employability
2	I	14UCH12	Physical Chemistry -I	Employability
3	1	14UCH1A	Fundamentals of Chemistry	Skill development
4	II	14UCH21	Organic Chemistry - I	Skill development
5	и	14UCH2L	Semi Micro Inorganic Qualitative Analysis	Skill development
6	п	14UCH2A	Physical and Industrial Chemistry	Skill development
7	п	14UCH2AL	Volumetric Estimations	Skill development
8	III	14UCH31	Organic Chemistry-II	Employability
9	ш	14UCH32	Inorganic Chemistry-II	Employability
10	ш	14UCH3A	Fundamentals of Chemistry	Skill development
11	Ш	14UCH3N	Chemistry in daily Life	Employability
12	IV	14UCH41	Physical Chemistry -II	Skill development
13	IV	14UCH4L	Volumetric Estimations-Practicals	Skill development
14	IV	14UCH4A	Physical and Industrial Chemistry	Skill development
15	IV	14UCH4AL	Volumetric Estimation-Practicals	Skill development
16	IV	14UCH4N	Industrial Chemistry	Employability
18	v	14UCH51	Organic and pharmaceutical Chemistry	Employability
20	v	14UCH5E1 / 14UCH5E2	Elective I -Inorganic Chemistry- III/Non - conventional energy resources	Employability



(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 B.Sc. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT 2014 AND LATER

21	v	14UCH5E3 / 14UCH5E4	Elective II -Physical Chemistry - III/Computer Applications in Chemistry	Employability
22	v	14UCH5L1	Physical Chemistry Practical	Skill development
24	VI	14UCH61	Physical Chemistry – IV	Employability
25	VI	14UCH62	Principle and application of analytical techniques	Employability
26	VI	14UCH6L1	Organic analysis And estimation- Practicals	Skill development
27	VI	14UCH6L2	Gravimetric estimations and inorganic preparations -Practicals	Skill development
28	VI	14UCH6E1/ 14UCH6E2	Elective III -Chemistry of Natural Products/Stereochemistry	Employability
29	VI	14USE63	Basics Of Printing Processes	Entrepreneurship
30	VI	14USE63L	Printing Primer Practicals	Skill development

M Southamani

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

J-Volances
Dr. T. Falaneeswari
PRINCIPAL
The Standard Firework
Rajaratnam College
for Women,
SIVAKASI.



(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)

COURSES FOCUS ON EMPLOYABILITY / ENTREPRENEURSHIP / SKILL DEVELOPMENT M.SC. CHEMISTRY - 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 CHEMISTRY

M.Sc. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

(Affiliated to Madural Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGCand Mentor Institution under UGC PARAMARSH)
SIVAKASI
CHOICE BASED CREDIT SYSTEM
DEPARTMENT OF CHEMISTRY

M.Sc. Chemistry 204 and later

S. No	Semester	Course Code	Course Title	Focus on
1	1	14PCH11	Organic Chemistry - I	Employability
2	1	14PCH12	Inorganic Chemistry - I	Employability
3	1	14PCH13	Physical Chemistry - I	Skill development
4	1	14PCH1E 1	Pharmaceutical chemistry	Skill development
5	1	14PCH1L1	Organic Chemistry Practicals I	Skill development
6	1	14PCH1L2	Inorganic Chemistry Practicals -1	Skill development
7	11	14PCH21	Organic Chemistry - 11	Skill development
8	п	14PCH22	Inorganic Chemistry - II	Employability
9	11	14PCH23	Physical Chemistry – II	Employability
10	11	14PCH2E	Safety Fireworks	Employability
11	II	14PCH2L1	Organic Chemistry Practicals-II	Skill development
12	11	14PCH2L2	Physical Chemistry Practicals-I	Skill development
13	III	14PCH31	Organic Chemistry - III	Employability
14	III	14PCH32	Inorganic Chemistry - III	Employability
15	111	14PCH33	Physical Chemistry – III	Employability
16	Ш	14PCH3E	CSIR-UGC Net Prelims- Chemistry	Skill development
17	Ш	14PCH3L	Physical Chemistry Practicals – II	Skill development
18	IV	14PCH41	Organic Chemistry - IV	Employability
19	IV	14PCH42	Inorganic Chemistry - IV	Employability
20	IV	14PCH43	Physical Chemistry – IV	Employability
21	IV	14PCH4P	Project and Viva voce	Skill development
22	IV	14PCH4E1	Biochemistry	Employability

PRINCIPAL

The Standard Fireworks Rajaratnam College for Women, SIVAKASI

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



(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)

COURSES FOCUS ON EMPLOYABILITY / ENTREPRENEURSHIP / SKILL DEVELOPMENT M.PHIL. CHEMISTRY - 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 CHEMISTRY

M.Phil. CHEMISTRY

COURSES FOCUS ON EMPLOYABILITY/ENTREPRENEURSHIP/SKILL DEVELOPMENT 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 UGCand Mentor Institution under UGC PARAMARSH)

SIVAKASI CHOICE BASED CREDIT SYSTEM DEPARTMENT OF CHEMISTRY M.Phil. Chemistry

S. No	Semester	Course Code	Course Title	Focus on
1	1	14MCH11	Research Methodology	Skill Development
2	1	14MCH12	Course Work	Skill Development
3	1	14MCH1V	Subject viva - voce	Skill Development
4	п	14MCH2A	Advanced Organic Chemistry	Employability
5	п	14MCH2B	Advanced Inorganic Chemistry	Employability
6	п	14MCH2C	Advanced Physical Chemistry	Employability
7	п	14MCH2D	Dissertation	Skill Development
8	н	14MCH2V	Viva-voce	Skill Development

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

Head of the Department of Chemistry, S.F.R. College for Women, Siyakob