

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 Kamarai University, Re-accredited with A Grade by NAAC

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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION M.Sc. CHEMISTRY 2020 AND LATER

:23

:43%

Total Number of Courses having changes :10

Total Number of Courses

Percentage of Revision

M. Sultan,

Signature of the HOD with Seal

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

J. Palavesi

PRINCIPAL The Standard Fireworks Rajaratnam College for Women SIVAKASI.



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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION M.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 UGCand Mentor Institution under UGC PARAMARSH) SIVAKASI-626123

OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM DEPARTMENT OF CHEMISTRY M.Sc. CHEMISTRY PROGRAMME CODE – MDCH PROGRAMME SCHEME (For those who have joined in 2020 and later)

-			Teaching		~	Marks Allotted		
Semester	Course Code	Course Title	Hours Per Week	Credits	Duration of Exam (Hours)	Internal	External	Total
	MDCH11	Core Courses ORGANIC CHEMISTRY-I	5	4	3	40	60	100
	MDCH12	INORGANIC CHEMISTRY - I	5	4	3	40	60	100
	MDCH13	PHYSICAL CHEMISTRY –I	5	4	3	40	60	100
I	MDCH1L1	ORGANIC CHEMISTRY PRACTICALS- I	5	3	6	50	50	100
	MDCH1L2	INORGANIC CHEMISTRY PRACTICALS -I	5	3	6	50	50	100
	MDCH1E1/ MDCH1E2	Elective Course I PHARMACEUTICAL CHEMISTRY /CHEMINFORMATICS	5	5	3	40	60	100
		Total	· 30	23				600
	MDCH21	Core Courses ORGANIC CHEMISTRY –II	5	4	3	40	60	100
	MDCH22	INORGANIC CHEMISTRY -II	5	4	3	40	60	100
	MDCH23	PHYSICAL CHEMISTRY -II	5	4	3	40	60	100
п	MDCH2L1	ORGANIC CHEMISTRY PRACTICALS -II	4	2	6	50	50	100
	MDCH2L2	PHYSICAL CHEMISTRY PRACTICALS -I	5	3	6	50	50	100
	MD2E	Elective Course II (Offered by other Departments)	6	5	3	40	60	100
		Total	30	22				600
	MDCH31	Core Courses ORGANIC CHEMISTRY –III	5	4	3	40	60	100
	MDCH32	INORGANIC CHEMISTRY -III	5	4	3	40	60	100
	MDCH33	PHYSICAL CHEMISTRY –III	5	4	3	40	60	100
m	MDCH3L1	INORGANIC CHEMISTRY PRACTICALS-II	5	3	6	50	50	100
	MDCH3L2	PHYSICAL CHEMISTRY PRACTICALS-II	5	3	6	50	50	100
	MDCH3E1/ MDCH3E2	Elective Course III MATERIALS SCIENCE / NANOCHEMISTRY	5	5	3	40	60	100



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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION M.Sc. CHEMISTRY 2020 AND LATER

	*	Total	30	23				600
	MDCH41	Core Courses ORGANIC CHEMISTRY –IV	6	4	3	40	60	100
	MDCH42	INORGANIC CHEMISTRY -IV	6	4	3	40	60	100
IV	MDCH43	PHYSICAL CHEMISTRY -IV	6	4	3	40	60	100
1 V	MDCH4E1/ MDCH4E2	Elective Course IV BIOCHEMISTRY/ BIOMEDICAL INSTRUMENTATION	6	5	3	40	60	100
	MDCH4P	PROJECT & VIVA-VOCE	6	5	-	-	100	100
		Total	30	22				500

ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS

ester	Course		Teaching Hours	dits	Duration	Mar च	ks Allo	
Seme	Code	Course Title	Per Week	Cree	of Exam (Hours)	Intern	Extern	Total
II	MDCH2E	SAFETY FIREWORKS	6	5	3	40	60	100

T-Palaveesi

PRINCIPAL The Standard Fireworks Rajaratnam College for Women, SIVAKASI,



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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

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DEPARTMENT OF CHEMISTRY
PERCENTAGE OF SYLLABUS REVISION
M.SC CHEMISTRY
2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI. DEPARTMENT OF CHEMISTY M. SC CHEMISTY – PROGRAMME CODE: HLCH

(For those who have joined in June 2017 and later)

Total Number of Courses having changes :11

Total Number of Courses

Percentage of Revision

:48%

:23

M. Southan

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

J-Palaneesi

PRINCIPAL The Standard Fireworks Rajaratnam Cellege for Women, SIVAKASI.



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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION M.SC CHEMISTRY 2017 AND LATER

T (Affili	ated to Madurai Exc	ARD FIREWORKS RAJARATN Kamaraj University, Re-accredited with A ellence by UGCand Mentor Institution un SIVAKASI DEPARTMENT OF CHEJ M.Sc. CHEMISTRY- PROGRAMM IE BASED EDUCATION WITH CHOJ (For those who have joined in 2	A Grade der UG MISTR 1E CO ICE BA 017 an	e by N. C PAI CY DE: H SED d later	AAC, Co RAMAR ILCH CREDI	SH) F SYS	with Poter	N, atial for
Sem	Course	Course Title	Teaching Hours Per Week	lits	Duration of Exam. (Hrs.)	1	Marks Allo	
Sem	Code	course rine	Teac Hou	Credits		Inter nal	Exte rnal	Tota I
	HLCH11	ORGANIC CHEMISTRY-I	5	4	3	25	75	100
	HLCH12	INORGANIC CHEMISTRY - I	5	4	3	25	75	100
	HLCH13	PHYSICAL CHEMISTRY -I	5	4	3	25	75	100
I	HLCH1L1	ORGANIC CHEMISTRY	5	3	6	40	60	100
	HLCH1L2	PRACTICALS-I INORGANIC CHEMISTRY PRACTICALS -I	5	3	6	40	60	100
	HLCH1E1/ HLCH1E2	ELECTIVE I PHARMACEUTICAL CHEMISTRY/ BIOINFORMATICS	5	5	3	25	75	100
	HLCH21	ORGANIC CHEMISTRY –II	5	4	3	25	75	100
	HLCH22	INORGANIC CHEMISTRY -II	5	4	3	25	75	100
	HLCH23	PHYSICAL CHEMISTRY -II	5	4	3	25	75	100
п	HLCH2L1	ORGANIC CHEMISTRY PRACTICALS -II	4	2	6	40	60	100
	HLCH2L2	PHYSICAL CHEMISTRY PRACTICALS -I	5	3	6	40	60	100
	HL2E	ELECTIVE II- (Offered by other Departments)	6	5	3	25	75	100
	HLCH31	ORGANIC CHEMISTRY -III	5	4	3	25	75	100
	HLCH32	INORGANIC CHEMISTRY -III	5	4	3	25	75	100
	HLCH33	PHYSICAL CHEMISTRY -III	5	4	3	25	75	100
III	HLCH3L1	INORGANIC CHEMISTRY PRACTICALS-II	5	3	6	40	60	100
	HLCH3L2	PHYSICAL CHEMISTRY PRACTICALS-II	5	3	6	40	60	100
	HLCH3E1/ HLCH3E2	ELECTIVE III CSIR- UGC NET PREPARATORY COURSE – CHEMISTRY/ MATERIALS SCIENCE	5	5	2	25	75	100
	HLCH41	ORGANIC CHEMISTRY –IV	6	4	3	25	75	100
	HLCH42	INORGANIC CHEMISTRY –IV	6	4	3	25	75	100
	HLCH43	PHYSICAL CHEMISTRY -IV	6	4	3	25	75	100
IV	HLCH4P	PROJECT & VIVA-VOCE	6	5	3	-	100	100
	HLCH4E1/ HLCH4E2	ELECTIVE IV BIOCHEMISTRY/ BIOMEDICAL INSTRUMENTATION	6	5	3	25	75	100



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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION M.SC CHEMISTRY 2017 AND LATER

SI.			Teaching	its	Duration of	Mark	s Allott	ed
Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Exam (Hours)	Internal	External	Total
II	HLCH2E	SAFETY FIREWORKS	6	5	3	40	60	100



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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 Medurai Kamarai University, Ba sagradited with A Crada by NAAC

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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION M.Sc. CHEMISTRY 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI. DEPARTMENT OF CHEMISTY M. SC CHEMISTY – PROGRAMME CODE: 14PCH

(For those who have joined in June 2014 and later)

: 10%

Total Number of Courses having changes : 2

Total Number of Courses : 20

Percentage of Revision

M. Saulfamany.

Signature of the HOD with Seal

Head of the Department of Chen (1997), S.F.R. College for Women, Sivakasi,



PRINCIPAL The Standard Fireworks Rajaratnam Cuilega for Women, SIVAKASI



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DEPARTMENT OF CHEMISTRY

PERCENTAGE OF SYLLABUS REVISION

M.Sc. CHEMISTRY

2014 AND LATER

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

Subjects	I Semester	II Semester	III Semester	IV Semester	Total Credits
Core courses					
Paper I	6(5)	6(5)	6 (5)	6(5)	-
Paper II	6(4)	6(4)	6(4)	6(5)	-
Paper III	6(4)	6(4)	6(4)	6(4)	-
Lab	6(4)	6(4)	6(4)		-
Project&Viva	-	-	-	6(5)	-
Total	24(17)	24(17)	24(17)	24(19)	70
Electives					
Core Elective	6(5)	-	-	6(5)	
Non-major Electives	-	6(5)	6(5)	-	20
Total	30(22)	30(22)	30(22)	30(24)	90
			Total Cr	edits	90

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

J-Palaveesi

PRINCIPAL The Standard Fireworks Rajarathata College for Women, 2 SIVAKASL

PG CHEM - 4



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DEPARTMENT OF CHEMISTRY PERCENTAGE OF SYLLABUS REVISION **M.Sc. CHEMISTRY 2014 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI Department of Chemistry (PG Programme) 2014 onwards

			Hours ek	S	ı of Irs.)	Marks Allotted		
Sem	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total
		<u>Core Courses – Maj</u>	or					
	14PCH11	Organic Chemistry-I	6	5	3	25	75	100
	14PCH12	Inorganic Chemistry - I	6	4	3	25	75	100
I	14PCH13	Physical Chemistry –I	6	4	3	25	75	100
	14PCH1L	Inorganic Qualitative and Quantitative analysis	6	4	6	40	60	100
	14PCH1EA	Elective I	6	5	3	25	75	100
	14PCH21	Organic Chemistry –II	6	5	3	25	75	100
	14PCH22	Inorganic Chemistry -II	6	4	3	25	75	100
п	14PCH23	Physical Chemistry -II	6	4	3	25	75	100
	14PCH2L	Organic Estimation and Analysis	6	4	6	40	60	100
	14PCH2E	Elective II-Safety Fireworks	6	5	3	25	75	100
	14PCH31	Organic Chemistry –III	6	5	3	25	75	100
	14PCH32	Inorganic Chemistry –III	6	4	3	25	75	100
ш	14PCH33	Physical Chemistry –III	6	4	3	25	75	100
	14PCH3L	Physical Chemistry Practical	6	4	6	40	60	100
ł	14PCH3E	Elective III-Materials Science	6	5	3	25	75	100
	14PCH41	Organic Chemistry –IV	6	5	3	25	75	100
	14PCH42	Inorganic Chemistry –IV	6	5	3	25	75	100
IV	14PCH43	Physical Chemistry –IV	6	4	3	25	75	100
ŀ	14PCH4EB	Elective IV	6	5	3	25	75	100
ŀ	14PCH4P	Project & viva-voce	6	5	3	-	100	100
		Electives	L I					
I	14PCH1E1	Pharmaceutical Chemistry	6	5	3	25	75	100
I	14PCH1E2	Bioinformatics	6	5	3	25	75	100
IV	14PCH4E1	Bio Chemistry	6	5	3	25	75	100
IV	14PCH4E2	Biomedical Instrumentation	6	5	3	25	75	100

M. Sulfamani

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PG CHEM - 5

T-Palaveesu:

PRINCIPAL The Standard Fireworks Rejarathera

College for Women, SIVAKASI.

"ad of the Department of Chemistry, R. College for Women, Sivakasi.