

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : BRANCH IV - CHEMISTRY**

**COURSES OF STUDY**

(Effective from the academic year 2015 - 2016)

**CHOICE BASED CREDIT SYSTEM**

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
<b>Semester - I</b>									
15CH/MC/GC14	General Chemistry	4	4	0	0	3	50	50	100
15CH/MC/AC14	Analytical Chemistry	4	4	0	0	3	50	50	100
15CH/MC/P112	Volumetric Analysis - Practical	2	0	0	3	3	50	50	100
<b>Semester - II</b>									
15CH/MC/OC24	Organic Chemistry - I	4	4	0	0	3	50	50	100
15CH/MC/P221	Semi Micro Qualitative Analysis Practical-I	1	0	0	2	3	50	50	100
15CH/GC/ES22	Environmental Studies	2	2	0	0	-	50	-	100
<b>Semester - III</b>									
15CH/MC/IC34	Inorganic Chemistry - I	4	4	0	0	3	50	50	100
15CH/MC/PC34	Physical Chemistry - I	4	4	0	0	3	50	50	100
15CH/MC/P332	Semi Micro Qualitative Analysis Practical-II	2	0	0	3	3	50	50	100
<b>Allied Core Offered to the Departments of Botany and Zoology</b>									
15CH/AC/FB33	Fundamentals of Biochemistry - I	3	3	0	0	3	50	50	100
15CH/AC/P132	Biochemistry Practical – I	2	0	0	3	3	50	50	100
<b>Allied Core Offered to the Department of Physics</b>									
15CH/AC/FC33	Fundamentals of Chemistry- I	3	3	0	0	3	50	50	100
15CH/AC/P232	Organic Analysis Practical	2	0	0	3	3	50	50	100
<b>Semester - IV</b>									
15CH/MC/OC44	Organic Chemistry - II	4	4	0	0	3	50	50	100
15CH/MC/P442	Organic Chemistry Practical - I	2	0	0	3	3	50	50	100
<b>Allied Core Offered to the Departments of Botany and Zoology</b>									
15CH/AC/FB43	Fundamentals of Biochemistry - II	3	3	0	0	3	50	50	100
15CH/AC/P342	Biochemistry Practical – II	2	0	0	3	3	50	50	100
<b>Allied Core Offered to the Department of Physics</b>									
15CH/AC/FC43	Fundamentals of Chemistry- II	3	3	0	0	3	50	50	100
15CH/AC/P442	General Chemistry Practical	2	0	0	3	3	50	50	100
<b>Semester - V</b>									
15CH/MC/OC54	Organic Chemistry - III	4	4	0	0	3	50	50	100
15CH/MC/PC54	Physical Chemistry - II	4	4	0	0	3	50	50	100
15CH/MC/BC54	Biochemistry	4	4	0	0	3	50	50	100
15CH/MC/P551	Organic Chemistry Practical - II	1	0	0	2	3	50	50	100
15CH/MC/P652	Physical Chemistry Practical - I	2	0	0	3	3	50	50	100

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<b>Semester - VI</b>									
15CH/MC/IC64	Inorganic Chemistry - II	4	4	0	0	3	50	50	100
15CH/MC/PC64	Physical Chemistry - III	4	4	0	0	3	50	50	100
15CH/MC/SP64	Spectroscopy	4	4	0	0	3	50	50	100
15CH/MC/P762	Physical Chemistry Practical - II	2	0	0	3	3	50	50	100
<b>Allied Elective Course offered to PH, BT &amp; ZL</b>									
15CH/AE/AP45	Applied Chemistry	5	4	1	0	3	50	50	100
<b>Major Elective Courses</b>									
15CH/ME/CC55	Computers in Chemistry (Skill Development)	5	4	1	0	3	50	50	100
15CH/ME/PR55	Project	5	0	0	5	-	50	50	100
15CH/ME/PH55	Pharmaceutical Chemistry	5	4	1	0	3	50	50	100
15CH/ME/PL55	Polymer Chemistry	5	4	1	0	3	50	50	100
<b>General Elective Courses</b>									
15CH/GE/CP22	Cosmetics and Personal Care	2	2	0	0	-	50	-	100
15CH/GE/NH22	Nutraceuticals and Health Care	2	2	0	0	-	50	-	100
15CH/GE/FA23	Food Quality and Detection of Food Adulteration	3	3	0	0	-	50	-	100
15CH/GE/BN23	Basic Nutritional Chemistry	3	3	0	0	-	50	-	100
15CH/GE/FC23	Forensic Chemistry	3	3	0	0	-	50	-	100
15CH/GE/CE23	Chemistry in Everyday life	3	3	0	0	-	50	-	100
<b>Social Awareness Programme / Service Learning (SAP/SL)</b>									
15CH/SL/PA52	Pollutants and Adulterants	2	2	0	0	-	50	-	100
15CH/SA/HH52	Health and Hygiene	2	2	0	0	-	50	-	100
15CH/SA/CW52	Child Welfare	2	2	0	0	-	50	-	100
15CH/SA/CD52	Care of the Differently Abled	2	2	0	0	-	50	-	100
15CH/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
15CH/SA/RR52	Rural Realities - Village Visits	2	2	0	0	-	50	-	100
15CH/SA/UR52	Urban Realities - Underdeveloped Areas (Slums)	2	2	0	0	-	50	-	100
15CH/SA/WA52	Welfare of the Aged	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
15CH/UI/IC23	Industrial Chemistry	3	0	0	0	3	-	50	100
15CH/UI/DD23	Drugs and Diseases	3	0	0	0	3	-	50	100