



SACRED HEART COLLEGE (AUTONOMOUS)

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Ready for
Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

M.Sc. Chemistry

Sem	Sub	Title of the paper	Ins Hrs	Cr	CA Mks	Sem Mks	Total
I	Core	Organic Chemistry - I	4	4	25	75	100
	Core	Inorganic Chemistry - I	4	4	25	75	100
	Core	Physical Chemistry - I	5	4	25	75	100
	Core Practicals	Organic Practicals - I	4	-	-	-	-
		Inorganic Practicals - I	4	-	-	-	-
		Physical Practicals - I	4	-	-	-	-
	Elective - I	1. Inorganic Photo Chemistry 2. Heterocyclic Chemistry 3. Material Science	4	4	25	75	100
II	Core	Organic Chemistry - II	4	4	25	75	100
	Core	Inorganic Chemistry - II	4	4	25	75	100
	Core	Physical Chemistry - II	5	4	25	75	100
	Elective - II	1. Polymer Chemistry 2. Green Chemistry 3. Bio-organic Chemistry	4	4	25	75	100
	SSP	Reagents in Organic Chemistry	0	2*			
	Core Practicals	Organic Practicals – I	4	4	40	60	100
		Inorganic Practicals – I	4	4	40	60	100
Physical Practicals – I		4	4	40	60	100	
III	Core	Organic Chemistry - III	4	4	25	75	100
	Core	Inorganic Chemistry - III	4	4	25	75	100
	Core	Physical Chemistry - III	5	4	25	75	100
	Elective - III	1. Analytical Chemistry 2. Pharmaceutical Chemistry 3. Research Methodology	5	4	25	75	100
	Core Practicals	Organic Practicals - II	4	-	-	-	-
		Inorganic Practicals - II	4	-	-	-	-
		Physical Practicals - II	4	-	-	-	-
IV	Core	Modern Organic Chemistry	4	4	25	75	100
	Core	Advanced Inorganic Chemistry	4	4			
	Core	Spectroscopy	5	4	25	75	100
	Core Practicals	Organic Practicals - II	4	4	40	60	100
	Human Rights	Human Rights	2	1			100
		Inorganic Practicals - II	4	4	40	60	100
		Physical Practicals - II	4	4	40	60	100

	Project Work	5	5	20	80	100
SEP	Advanced analytical technique/BMT		2*	Viva	Thesis	
SSP	Chemical Sciences For CSIR-UGC-NET/JRF/ GATE		2*			
	TOTAL	120	90+6			2200

Required Credits = 90 (89 + 1-HR)

Additional credits for Chemistry students = 6* Credits

1. 2+2 credits from parent department

Self-Study Paper (CSIR/SET – Objective Type Questions) : 2* Credits

Self-Study Paper (Reagents in Organic Chemistry) : 2* Credits

2. Additional credits (Chemistry, Bio-chemistry and Physics department)

Inter Discipline Course (IDC) : 2*Credits

Advanced Analytical Techniques / BMT

- Classes will be taught outside the class hours
- Based on the demand the course fee may be fixed

Regulations for Inter Disciplinary Course [IDC]

IDC- AAT / Biochemical and Microbial Techniques

Credit	: 2*Credits
Hours	: 30 Hrs (20+10}
Semester	: II Year [Sem III & Sem IV]
Evaluation Pattern	: Test-I and Test-II [each 25 Marks]
Maximum Marks	: 50 Marks
Minimum Marks	: 25 Marks

Regulations for Self-Study Paper [SSP]

(Reagents in organic Chemistry and CSIR/SET – Objective Type Questions)

Credit	: 2*Credits
Semester	: II and IV Semester
Evaluation Pattern	: one Test
Maximum Marks	: 100 Marks
Minimum Marks	: 50 Marks