



# SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

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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 (4<sup>th</sup> Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

## M.Sc. Chemistry (CBCS)

Sem	Sub	Title of the paper	Ins Hrs	Cr	CA Mks	Sem Mks	Total
I	Core	Organic Chemistry – I	4	4	50	50	100
	Core	Inorganic Chemistry – I	4	4	50	50	100
	Core	Physical Chemistry – I	5	4	50	50	100
	Core Practicals	Organic Practicals – I	4	-	-	-	-
		Inorganic Practicals – I	4	-	-	-	-
		Physical Practicals – I	4	-	-	-	-
Elective - I	1. Analytical Chemistry 2. Green Chemistry 3. Pharmaceutical Chemistry	5	5	50	50	100	
II	Core	Organic Chemistry – II	4	4	50	50	100
	Core	Inorganic Chemistry – II	4	4	50	50	100
	Core	Physical Chemistry – II	5	4	50	50	100
	Elective - II	1. Research Methodology 2. Heterocyclic Chemistry 3. Bio-organic Chemistry	5	5	50	50	100
	SSP	Reagents in Organic Chemistry	0	2*			
	Core Practicals	Organic Practicals – I	4	4	50	50	100
Inorganic Practicals – I		4	4	50	50	100	
Physical Practicals – I		4	4	50	50	100	
III	Core	Organic Chemistry – III	4	4	50	50	100
	Core	Inorganic Chemistry – III	4	4	50	50	100
	Core	Spectroscopy	5	4	50	50	100
	Elective - III	1. Inorganic photochemistry and materials science 2. Polymer Chemistry 3. Chemoinformatics	5	5	50	50	100
	Core Practicals	Organic Practicals – II	4	-	-	-	-
		Inorganic Practicals – II	4	-	-	-	-
Physical Practicals – II		4	-	-	-	-	
IV	Core	Organic Chemistry – IV	4	4	50	50	100
	Core	Inorganic Chemistry - IV	4	4	50	50	100
	Core	Physical Chemistry – III	5	4	50	50	100
	Core Practicals	Organic Practicals – II	4	4	50	50	100

		Inorganic Practicals – II	4	4	50	50	100
		Physical Practicals – II	4	4	50	50	100
	HR	Human Rights	2	1	50	50	100
	Project	<b>Project Work</b>	3	2	20 Viva	80 Thesis	100
	IDC	Advanced analytical technique/BMT		2*			
	SSP	Chemical Sciences For CSIR-UGC-NET/JRF/ GATE		2*			
		<b>Total</b>	<b>120</b>	<b>90+6*</b>			<b>2200</b>

**Required Credits = 90 (89 + 1–HR)**

**Additional credits for Chemistry students - 6\* Credits**

**1. Credits from parent department (2+2)**

Self-Study Paper (Chemical Science for CSIR/SET) : 2\* Credits

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

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

Inter Disciplinary 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 Hours (20+10)

Semester : II Year [Semester - III & IV]

Evaluation Pattern : Test-I and Test-II

Maximum Marks : 50 Marks

Minimum Marks : 25 Marks

**Regulations for Self-Study Paper [SSP]**

**1. Reagents in organic Chemistry**

**2. Chemical Science for CSIR / SET**

Credit : 2\*Credits

Semester : Semester - II and IV

Evaluation Pattern : one Test

Maximum Marks : 100 Marks

Minimum Marks : 50 Marks

# SACRED HEART COLLEGE (AUTONOMOUS) TIRUPATTUR.

## DEPARTMENT OF CHEMISTRY

### **Guidelines for the research project for postgraduate students**

#### **General Guidelines**

1. The project guide will be allotted by HOD in consultation with the faculty.
2. The student can carry out the project work during the stipulated time allotted during the course of the programme.
3. The topic and content of the research work is to be finalized with the guide and the same should be carried out that will lead to the thesis written by the student
4. The student has to get the permission from the respective in charges to carry out the research in the department laboratory.
5. After successful completion of the project work the student has to defend his work in final Semester.
6. The student should produce an original work during the research and plagiarism check is a must to finalize the contents of the thesis
7. The maximum percentage of plagiarism allowed is 30%.