



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

B.Sc. Chemistry

B. Sc Chemistry - Scheme of papers (CBCS) - 2017

Year / Semester	Part	Subject	Title of the Paper	Hrs / Week	Credits	Exam hours	Max Marks		
							CIA	Sem	Total
I Year / I Semester	I	Tamil	Tamil - I	5	3	3	25	75	100
	II	English	English - I	5	3	3	25	75	100
	II		Communicative English		1				
	III	Core	General Chemistry - I	4	4	3	25	75	100
	III	Core	General Chemistry - II	3	3	3	25	75	100
	III	Core Practical	Volumetric Analysis	3	3				
	III	Allied	Allied Mathematics - I	6	4	3	25	75	100
	IV		FC	2	1				
I Year / II Semester	IV		Religion & Ethics - I	2	1	3	25	75	100
	I	Tamil	Tamil - II	5	3	3	25	75	100
	II	English	English - II	5	3	3	25	75	100
	II		Communicative English		1				
	III	Core	General Chemistry - III	4	4	3	25	75	100
	III	Core	General Chemistry - IV	3	3	3	25	75	100
	III	Core Practical	Volumetric Analysis	3	3	3	40	60	100
	III	Allied	Allied mathematics - II	6	4	3	25	75	100
II Year / III Semester	IV		FC	2	1	3	40	60	100
	IV		Religion & Ethics - II	2	1	3	25	75	100
	I	Tamil	Tamil - III	5	3	3	25	75	100
	II	English	General English - III	5	3	3	25	75	100
	III	Core	Organic Chemistry - I	4	4	3	25	75	100
	III	Core	Analytical Chemistry - I	3	3	3	25	75	100
	III	Core Practical	Qualitative Inorganic Analysis	3	3				
	III	Allied	Allied Physics - I	6	4	3	25	75	100
	IV		FC	2	1				
	IV		Human Rights	2	1	3	25	75	100
II Year / IV Semester	V		DEEDS						
	V		SHELTERS						
			Certificate course - I		2*				
	I	Tamil	Tamil - IV	5	3	3	25	75	100
II Year / IV Semester	II	English	English - IV	5	3	3	25	75	100
	III	Core	Inorganic Chemistry - I	4	4	3	25	75	100
	III	Core	Physical Chemistry - I	3	3	3	25	75	100

	III	Core Practical	Qualitative Analysis	3	3	4.5	40	60	100
	III	Allied	Allied Physics - II	6	4	3	25	75	100
	IV		FC	2	1		40	60	100
	IV		Environmental Studies	2	1	3	25	75	100
	V		DEEDS		2				
	V		SHELTERS		2				

III Year / V Semester	III	Core	Organic Chemistry - II	4	4	3	25	75	100
	III	Core	Inorganic Chemistry - II	4	4	3	25	75	100
	III	Core	Physical Chemistry - II	4	4	3	25	75	100
	III	Core	Analytical Chemistry -II	4	4	3	25	75	100
	III	Main Elective	Elective – I	4	2	3	25	75	100
	III	Main Elective	Elective – II	2	2	3	25	75	100
		SSP	Chemistry for Competitive Exam - I		1*				
	III	Core Practical	Gravimetric & Organic Analysis	3	3		40	60	100
	III	Core Practical	Physical Chemistry Practicals	3	3		40	60	100
		NME	Chemistry of Drugs and Disease	2	1		25	75	100
			Certificate Course - II		2*				
III Year / VI Semester	III	Core	Organic Chemistry - III	4	4	3	25	75	100
	III	Core	Inorganic Chemistry - III	4	4	3	25	75	100
	III	Core	Physical Chemistry - III	4	4	3	25	75	100
	III	Subject Skill (SS-I)	Paper - I	5	4	3	25	75	100
	III	Subject Skill (SS-II)	Paper - II	5	4	3	25	75	100
	IV	NME	Chemistry in Everyday Life	2	1	3	25	75	100
	III	SSP	Chemistry for Competitive Exam - II		1*				
	III	Core Practical	Gravimetric & Organic Analysis	3	3	6	40	60	100
	III	Core Practical	Physical Chemistry Practicals	3	3	3	40	60	100
			Project*		2*				
		Total	180	148+2+2*					

* Extra credits

Note:

- SSP/Project/Certificate course - optional

Abbreviations

FC	Foundation Course
Comm. Eng	Communicative English
ET	Ethics
RE	Religion
DEEDS	Dept. of extension and educational services.
HR	Human Rights
SSP	Self study paper
NME	Non-major Elective

List of Electives

Elective - I

4 Hours

1. Pharmaceutical Chemistry
2. Clinical Biochemistry
3. Bio-Inorganic Chemistry

Elective - II

2 Hours

1. Applied Chemistry
2. Protein Chemistry
3. Computer for Chemists

Subject Skill Papers

5 Hours

1. Polymer Chemistry
2. Industrial and Environmental Chemistry
3. Green Chemistry
4. Materials Chemistry
5. Inorganic Materials of Industrial Importance
6. Reaction Mechanisms and Reagents in Organic Chemistry

Certificate Courses

2 Hours

1. Organic Farming
2. Industrial Safety