



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

## M.Sc. Biochemistry

Sem	Subject Code	Paper	Title of the Paper	Ins. Hrs/ Week	Cr	Exam Hrs	Max. Marks		
							CA	Sem	Tot
I SEMESTER	BC709	Core Paper I	Cell Dynamics	4	4	3	50	50	100
	BC710	Core Paper II	Biomolecules	4	4	3	50	50	100
	BC711	Core Paper III	Human Physiology and Nutrition	4	4	3	50	50	100
	PBC807	Core Practical I	Lab Course – I: Isolation, Quantitative Analysis and Techniques	5	-	-	-	-	-
	PBC808	Core Practical II	Lab Course – II: Industrial and Clinical Enzymology	5	-	-	-	-	-
	PBC809	Core Practical III	Lab Course – III: Microbial Biochemistry	4	-	-	-	-	-
	BC712A BC712B BC712C	Elective Paper I	(to choose 1 out of 3) 1. Bioinformatics 2. Industrial Microbiology 3. Stem Cell Technology	4	4	3	50	50	100
				<b>30</b>	<b>16</b>				<b>400</b>
II SEMESTER	BC809	Core Paper IV	Instrumentation Biochemistry	4	4	3	50	50	100
	BC810	Core Paper V	Advanced Enzymology	4	4	3	50	50	100
	BC811	Core Paper VI	Intermediary Metabolism	4	4	3	50	50	100

	PBC807	Core Practical I	Lab Course – I: Isolation, Quantitative Analysis and Techniques	5	4	6	50	50	100
	PBC808	Core Practical II	Lab Course – II: Industrial and Clinical Enzymology	5	4	6	50	50	100
	PBC809	Core Practical III	Lab Course – III: Microbial Biochemistry	4	4	6	50	50	100
	BC812A BC812B BC812C	Elective Paper II	(to choose 1 out of 3) 1. Advanced Endocrinology 2. Pharmaceutical Biochemistry 3. Environmental Toxicology	4	4	3	50	50	100
			<b>Summer Training*</b>	-	2*	-	-	-	-
			<b>Certificate Course-CMLT*</b>	-	2*	-	-	-	-
				<b>30</b>	<b>28+4*</b>				<b>700</b>
Sem	Paper	Title of the Paper	Ins. Hrs/ Week	Cr	Exam Hrs	Max. Marks			
						CA	SEM	Tot	
III SEMESTER	BC911	Core Paper VII	Molecular Biology	6	5	3	50	50	100
	BC912	Core Paper VIII	Immunology	5	4	3	50	50	100
	BC913	Core Paper IX	Research Methodology	5	4	3	50	50	100
	PBC1005	Core Practical IV	Lab Course – IV: Biochemical, Immunological and Molecular Biology Techniques	5	-	-	-	-	-
	PBC1006	Core Practical V	Lab Course– V: Haematological Methods	5	-	-	-	-	-
	BC914A BC914B	Elective Paper III	(to choose 1 out of 3) 1. Ecology, evolution & biodiversity	4	4	3	50	50	100

	BC914C		2.Food Biochemistry 3.Bionanotechnology						
		SSP	<b>Self-Study Paper*</b> (CSIR/SET – Objective Type Questions) <b>OR</b> <b>Online Course</b> [ NPTEL/MOOC]	-	2*	-	-	-	-
				<b>30</b>	<b>17+2*</b>				<b>400</b>
<b>IV SEMESTER</b>	BC1009	Core Paper X	Advanced Clinical Biochemistry	5	5	3	50	50	100
	BC1010	Core Paper XI	Biotechnology	4	4	3	50	50	100
	BC1012J	Core Paper XII	Project/Dissertation with Viva-Voce	5	5	-	50	50	100
	PBC1005	Core Practical IV	Lab Course – IV: Biochemical, Immunological and Molecular Biology Techniques	5	5	6	50	50	100
	PBC1006	Core Practical V	Lab Course– V: Haematological Methods	5	5	6	50	50	100
	BC1011A BC1011B BC1011C	Elective Paper IV	(to choose 1 out of 3) 1.Plant: Biochemistry and Molecular Biology 2.Herbal Technology 3.Medical Diagnostic Technology	4	4	3	50	50	100
	<b>VE1004</b>		Human Rights	2	1	3	50	50	100
				<b>30</b>	<b>29</b>				<b>700</b>
			<b>TOTAL</b>	<b>120</b>	<b>90+6*</b>				<b>2200</b>

## Regulations for Project

**Plagiarism Check:** The entire PG dissertation has to be checked for plagiarism using the Turnitin tool. The acceptable level of similarity would be 30% for the specific topics such as Introduction, results and discussion and conclusion.

### Pattern for Project

**Total Marks: 100**

<b>1. <u>Internal</u></b>	:	<b>50</b>
I Review	:	25
II Review	:	25
<b>2. <u>External</u></b>	:	<b>50</b>
a. Presentation	:	20
b. Dissertation	:	20
c. Viva voce	:	10

### Regulations for Summer Training

Credit	:	2*Credits
Duration	:	20 -30 Days
Semester	:	End of 2 <sup>nd</sup> semester
Evaluation Pattern	:	Report Submission with certificate