



# 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. Applied Microbiology

Sem	Part	Subject Code	Subject Title	Hrs	Credit (s)	Exam Hrs	CA	SE	Total
I	Core Paper I	MB701	General Microbiology and Microbial Diversity	4	4	3	50	50	100
	Core Paper II	MB702	Microbial Physiology and Metabolism	4	4	3	50	50	100
	Core Paper III	MB703	Immunology	4	3	3	50	50	100
	Core Paper IV	MB704	Molecular Microbiology	4	4	3	50	50	100
	Core Practical I	PMB801	General and Medical Microbiology	5	-	-	-	-	-
	Core Practical II	PMB802	Immunology, Hematology and Molecular Biology	5	-	-	-	-	-
	Elective Paper I	MB705A MB705B MB705C	(to choose 1 out of 3) 1. Microbial Instrumentation 2. Biostatistics 3. Phycology and Mycology	4	3	3	50	50	100
				<b>30</b>	<b>18</b>	-	-	-	<b>500</b>
II	Core Paper V	MB801	Medical Bacteriology	6	4	3	50	50	100
	Core Paper	MB802	Medical Virology	5	4	3	50	50	100

	VI								
	Core Paper VII	MB803	Medical Mycology and Parasitology	5	4	3	50	50	100
	Core Practical I	PMB801	General and Medical Microbiology	5	4	6	50	50	100
	Core Practical II	PMB802	Immunology, Hematology and Molecular Microbiology	5	4	6	50	50	100
	Elective Paper II	MB804A MB804B MB804C	(to choose 1 out of 3) 1. Pharmaceutical Microbiology 2. Bioinformatics 3. Public Health Microbiology	4	3	3	50	50	100
		PMB803J	Internship*	-	2*	-	-	-	-
				<b>30</b>	<b>23+2*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600</b>
III	Core Paper VIII	MB901	Research Methodology	4	4	3	50	50	100
	Core Paper IX	MB902	Bioinoculant Technology and Plant Pathology	4	4	3	50	50	100
	Core Paper X	MB903	Mushroom Technology	4	4	3	50	50	100
	Core Paper XI	MB904	Environmental Microbiology	4	4	3	50	50	100
	Core Practical III	PMB1001	Bioinoculant, Composting and Mushroom Technology	5	-	-	-	-	-
	Core Practical IV	PMB1002	Environmental and Food Microbiology	5	-	-	-	-	-
	Elective Paper		(to choose 1 out of 3)						

	III	MB905A	1. Microbial Remediation	4	4	3	50	50	100
		MB905B	2. Vermitechnology						
		MB905C	3. Microbial Nanotechnology						
				<b>30</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500</b>
IV	Core Paper XII	MB1001	Food Microbiology	4	4	3	50	50	100
	Core Paper XIII	MB1002	Industrial Microbiology	5	5	3	50	50	100
	Core Paper IX	MB1004J	Project/Dissertation with Viva voce	5	5	-	50	50	100
	Core Practical III	PMB1001	Bioinoculant, Composting and Mushroom Technology	5	5	6	50	50	100
	Core Practical IV	PMB1002	Environmental and Food Microbiology	5	5	6	50	50	100
	Elective Paper IV	MB1003A MB1003B MB1003C	(to choose 1 out of 3) 1. Microbial Biotechnology 2. Microalgal Technology 3. Probiotic Microbiology	4	4	3	50	50	100
	-	-	Human Rights	2	1	3	50	50	100
	-	-	Self-Study Paper (SSP): Comprehensive Microbiology	-	2*	-	-	-	-
	-	-	NPTEL/MOOCs/Other Certificate courses*	-	2*	-	-	-	-
<b>Total</b>				<b>30</b>	<b>29+4*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>
<b>TOTAL</b>				<b>120</b>	<b>90+6*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2200</b>

### **Evaluation Pattern for Internship**

Submission of report with Certificate of attending 20 days Internship before the starting of Semester – III from the Concerned Lab.