



SACRED HEART COLLEGE (AUTONOMOUS)

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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

Name of the Course	Course Code	Name of the Program	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction
General Microbiology and Microbial Diversity	MB 701	M Sc Microbiology	Skill Development Contents: History and Fundamentals of Microbiology; Ultrastructure, Classification and Economic importance of Microorganisms Activities: Seminar, MCQ, Oral Test	2021-22
Microbial Physiology and Metabolism	MB 702	M Sc Microbiology	Skill Development Contents: Nutrient transport, Growth, Metabolism and Photosynthesis in microorganisms Activities: Discussion, Oral Test, Seminar	2021-22
Immunology	MB 703	M Sc Microbiology	Skill Development Contents: Cells and Organs in Immune systems; Mechanism of immune activation; Hypersensitivity	2021-22

			reactions. Activities : Seminar, MCQ, Oral Test	
Medical Bacteriology	MB 801	M Sc Microbiology	Skill Development Contents: General characteristics, pathogenicity, clinical symptoms, identification and treatment for different bacteria. Activities: Seminar, MCQ, Oral Test	2021-22
Medical Virology	MB 802	M Sc Microbiology	Skill Development Contents: Structure, Classification, Replication, Pathogenicity, Clinical Syndrome, Laboratory diagnosis, Treatment and Preventive measures for Viruses. Activities: Seminar, MCQ, Oral Test	2021-22
Medical Mycology and Parasitology	MB 803	M Sc Microbiology	Skill Development Contents: Pathogenicity, Clinical Syndrome, Laboratory diagnosis, Treatment and Preventive measures for Fungal and Parasitic diseases. Activities:	2021-22

			Seminar, MCQ, Oral Test	
Pharmaceutical Microbiology	MB 804A	M Sc Microbiology	Skill Development Contents: Concepts of manufacture Biopharmaceutical products in today's regulatory environment. Activities: Hands- on-Training, Practical Exam	2021-22
Bioinformatics	MB 804B	M Sc Microbiology	Skill Development Contents: Search engines and various software tools involved in Bioinformatics and Chemoinformatics. Activities: Hands- on-Training, Practical Exam	2021-22
Public Health Microbiology	MB 804C	M Sc Microbiology	Skill Development Contents: Concepts of manufacture Biopharmaceutical products in today's regulatory environment. Activities : Hands- on-Training, Practical Exam	2021-22
Core Practical - II	PMB 802	M Sc Microbiology	Skill development Contents: Immunology, Haematology and Molecular biology. Activities: Observation & Test.	2021-22

Internship	PBCD206J	M Sc Microbiology	Skill Development Contents: Instruments Handling and Other techniques Activities: Hands- on-Training, Report Submission, Review	2021-22
Research Methodology	MB 901	M Sc Microbiology	Skill Development Contents: Research designs, Scientific writing, Ethics in Scientific research, Data collection and Analysis of scientific data using software. Activities: Seminar, MCQ, Oral Test	2021-22
Bioinoculant Technology and Plant Pathology	MB 902	M Sc Microbiology	Skill Development Contents: Production, Formulation, Method of application and Quality control of Bioinoculants; Pathogens of plants. Activities: Seminar, MCQ, Oral Test	2021-22
Mushroom Technology	MB 903	M Sc Microbiology	Skill Development Contents: Cultivation, Disease control, Nutritional value and Medicinal value of Mushrooms.	2021-22

Vermitechnology	MB 905B	M Sc Microbiology	Skill Development Contents: Earthworms in Vermicomposting, Organic farming and Solid waste reclamation. Activities: Seminar, MCQ, Oral Test	2021-22
Microbial Nanotechnology	MB 905C	M Sc Microbiology	Skill Development Contents: Basic knowledge about Microbially synthesized nanoparticles and its biological applications. Activities: Seminar, MCQ, Oral Test	2021-22
Food Microbiology	MB 1001	M Sc Microbiology	Skill Development Contents: Role of microorganisms in many food, beverage and various industries both in production and spoilage processes. Activities: Seminar, MCQ, Oral Test	2021-22
Industrial Microbiology	MB 1002	M Sc Microbiology	Skill Development Contents: Use of microorganisms for the production of Antibiotics, Vaccines, Organic acids, Organic solvents, Amino acids, Vitamins and Industrial enzymes.	2021-22

			Activities: Seminar, MCQ, Oral Test	
Probiotic Microbiology	MB 1003C	M Sc Microbiology	Skill Development Contents: Develop the Entrepreneurial Skill production and assessment of probiotic microbes. Activities: Seminar, MCQ, Oral Test	2021-22
Comprehensive Microbiology	SSP-1	M Sc Microbiology	Skill Development Contents: Fundamentals of Microbiology; Microbial diversity and classification; Microbial physiology; Agricultural microbiology, Environmental microbiology, Food microbiology and Industrial microbiology. Activities: Test, Assignment & MCQs.	2021-22
Project/Dissertation with Viva-Voce	MB 1004J	M Sc Microbiology	Skill Development Contents: Introduction, Review, Results, Discussion and References Activities: Project Review, Viva	2021-22

Core Practical - III	PMB 1001	M Sc Microbiology	Skill development Contents: Bioinoculant, Composting and Mushroom Technology Activities: Observation & Test.	2021-22
Core Practical - IV	PMB 1002	M Sc Microbiology	Skill development Contents: Environmental microbiology and Food microbiology Activities: Observation & Test.	2021-22