



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

Name of the Course	Course Code	Name of the Program	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction
Fundamentals of Microbiology	MB103	B.Sc Microbiology	Employability Contents: History and Fundamental knowledge on Microbiology Activities: Test on Contribution of Scientists, Assignment on Prokaryotes and Eukaryotes & MCQs on Bacterial organelles and Sterilization.	2021-22
Microbial Diversity and Classification	MB104	B.Sc Microbiology	Employability Contents: Ultrastructure, Classification and Economic importance of Microorganisms Activities: Test on Kingdom classification of microorganisms, Assignment on Economic importance of microorganisms &	2021-22

			MCQs on Molecular identification techniques.	
Microbial Physiology and Metabolism	MB203	B.Sc Microbiology	Employability Contents: Nutrient transport, Growth, Metabolism and Photosynthesis in microorganisms. Activities: Test on Transport of nutrients, Assignment on Microbial growth & MCQs on Photosynthesis.	2021-22
Bioinstrumentation	MB204	B.Sc Microbiology	Employability Contents: Principles and Applications of various Instruments used in Microbiology Laboratory. Activities: Test on Microbial instruments, Assignment on Electrophoresis techniques & MCQs on Chromatography	2021-22
Immunology	MB303	B.Sc Microbiology	Activities: Test on Immunity, Assignment on Antigens and Antibodies & MCQs on Hypersensitivity reactions.	2021-22

Mushroom Technology	MB304	B.Sc Microbiology	Employability Contents: Cultivation, Disease control, Nutritional value and Medicinal value of Mushrooms. Activities: Test on Mushroom cultivation techniques, Assignment on Mushroom structure & MCQs on Mushroom diseases.	2021-22
Bioinoculant Technology	MB403	B.Sc Microbiology	Employability Contents: Production, Formulation, Method of application and Quality control of Bioinoculants. Activities: Test on Biofertilizers, Assignment on Biocontrol agents & MCQs on Biopesticides.	2021-22
Microbial Genetics	MB404	B.Sc Microbiology	Employability Contents: Basic principles of Microbial genetics, Cloning vector and Gene transfer mechanism. Activities: Test on Chromosomes, Assignment on Gene transfer mechanism &	2021-22

			MCQs on Mutation.	
Molecular Biology and Genetic Engineering	MB501	B.Sc Microbiology	Employability Contents: Information on DNA Replication, Transcription, Translation, Mutation, DNA Repair mechanisms and various applications of Genetic Engineering. Activities: Test on DNA Replication, Assignment on Translation and Transcription & MCQs DNA Repair mechanism.	2021-22
Virology	MB503	B.Sc Microbiology	Employability Contents: Structure, Classification, Replication, Pathogenicity, Clinical Syndrome, Laboratory diagnosis, Treatment and Preventive measures for Viruses. Activities: Test on Cultivation of Viruses, Assignment on DNA Virus &	2021-22

			MCQs on RNA Virus.	
Non – Major Elective – I: Applied Microbiology	NMB501	B.Sc Microbiology	Employability Contents: Applied Microbiology will familiarize the students from various Arts and Science Departments with fundamental knowledge on microbiology and its applications. Activities: Test on Basic Microbiology concepts, Assignment on Bacterial structure & MCQs on Sterilization techniques.	2021-22
Microbial Biotechnology	MB601	B.Sc Microbiology	Employability Contents: Biotechnology and their applications in Genetic engineering. Activities: Test on Enzyme immobilization, Assignment IPR & MCQs on Recombinant DNA Technology.	2021-22

Environmental Microbiology	MB602	B.Sc Microbiology	Employability Contents: Microorganisms in Environment, Biogeochemical cycles and Wastewater treatment technologies Activities: Test, Assignment & MCQs.	2021-22
Vermitechnology	MB603	B.Sc Microbiology	Employability Contents: Earthworms in Vermicomposting, Organic farming and Solid waste reclamation. Activities: Test, Assignment & MCQs."	2021-22
Non – Major Elective – II: Microbial Disease and Health Care	NMB601	B.Sc Microbiology	Employability Contents: Clinical conditions and preventive measures for microbial diseases. Activities: Test, Assignment & MCQs.	2021-22