



Ready for
Every Good Work

SACRED HEART COLLEGE (AUTONOMOUS)

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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

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	General Laboratory and Instruments Maintenance	BCD109	<ul style="list-style-type: none"> To Understanding the importance of standard operating procedures and safety precautions in maintaining a safe and efficient working environment. To enhancing knowledge of safety precautions while handling and storing samples. To provide knowledge on proper handling and storage of lab equipment to ensure its longevity. To learn about comprehensive understanding of microscopy techniques and applications. 	<ul style="list-style-type: none"> Understanding the importance of SOPS and safety precautions in the work place. Awareness of safety precautions and practices while handling and storing samples. Competence in identifying and operating common laboratory equipment. Explain the working mechanisms and functionalities of various microscopy techniques. Integrate knowledge of colorimeter and spectrophotometer. Recall demonstrates knowledge and understanding of the basic principles and components of ELISA, Turbidometer and Autoanalyser. 	Local/National developmental needs

3	HUMAN PATHOGENS & BODY FLUID ANALYSIS	BCD210	<ul style="list-style-type: none"> • To acquire broad knowledge on human pathogens, its symptoms, causes and treatment. • To understand the fundamentals concepts in bacteriology, virology and mycology. • To know the basics of source and mode of action of Viruses and fungi infecting the humans. • To comprehend the formation, collection and functions of Amniotic and Cerebrospinal fluids. • To exhibit skills on the formation, collection and functions of Serous fluid and other body fluids. 	<ul style="list-style-type: none"> • Identify the fundamentals concepts in human pathogens, its symptoms, causes and treatment. • Demonstrate broad knowledge on the fundamentals concepts in bacteriology and virology. • Distinguish the fundamentals concepts in mycology and its pathogenesis in humans. • Determine to know the fundamentals of source and mode of action of Human Viruses and fungi. • Correlate and measure the formation, collection and functions of Amniotic and Cerebrospinal fluids. • Originate on the formation, collection and functions of Serous fluid and other body fluids. 	Local/National developmental needs
3	MICROBIOLOGY	BCD211	<ul style="list-style-type: none"> • To learn about the basics of Microbiology. • To understand the concepts of bacterial physiology and growth factors, bacterial growth curve and morphology. • To determine and interpret the staining methods and its applications. • To know the methods of sterilization of media and instruments. • To learn about hands on training of cultivation of bacteria. 	<ul style="list-style-type: none"> • Acquire information about various microorganisms. • Identify the bacterial physiology and growth factors, bacterial growth curve and morphology • Defend opinions on collection of samples, labeling and transportation of material and disposal of microbiology products • Compile information about various nutrient medium. • Define the name of the microbes of biological significance • Interpret the staining methods and its applications. 	Local developmental needs.