



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

2	CLINICAL BIOCHEMISTRY	BCD112	<ul style="list-style-type: none"> • To understand the renal threshold value and normal blood glucose value. • To learn about the defects associated with carbohydrate metabolism. • To gain knowledge about various diseases related to amino acid metabolism. • To study about functions of various organs of the body and their functional tests. • To understand the disorders of metabolic organ. 	<ul style="list-style-type: none"> • Describe the normal blood glucose level and explain the carbohydrate metabolic defects and its diagnostic methods. • Differentiate the metabolic diseases associated with amino acids like phenyl alanine, tyrosine and cysteine, and lipoprotein abnormalities. • Apply the suitable diagnostic method to identify the Jaundice type and explain the different liver metabolic disorders. • Analyze the renal function by various clearance tests, urine concentration and dilution test and express about renal disorders • Decide the methods of gastric sample collection technique and analyze gastric residue by stimulation tests. • Manage to collect various diagnostic samples and explain about gastric and pancreatic disorders. 	<p align="center">National developmental needs</p>
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, 	<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 	<p align="center">Local/National developmental needs</p>

			<p>collection and functions of Amniotic and Cerebrospinal fluids.</p> <ul style="list-style-type: none">• To exhibit skills on the formation, collection and functions of Serous fluid and other body fluids.	<p>of action of Human Viruses and fungi.</p> <ul style="list-style-type: none">• 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.	
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