



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

Name of the Programme: B. Sc. Computer Science

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PROBLEM SOLVING TECHNIQUES	CS120	<ul style="list-style-type: none">To develop problem solving skills with top-down design principles.To become competent in algorithm design and program implementation.To develop skills to apply appropriate standard methods in problem solving	<ul style="list-style-type: none">Upon Completing the Course, Students will be able to:Develop programming techniques required to solve a given problem.Develop problem solving skill using top – down design principles.Design an algorithm for a problem.Develop techniques to handle array structureDevelop techniques such as searching and sorting	Local
2	DIGITAL COMPUTER FUNDAMENTALS	CS221	<ul style="list-style-type: none">To explore the Number System, Number Conversion from one Base to another Base and Complements.To understand the Logic Gates, Boolean Algebra and to design	<ul style="list-style-type: none">Perform conversions among different number systems, to be familiar with basic logic gates,Draw the Logic circuits and truth table for Boolean	Local

			<p>the Logical Circuits.</p> <ul style="list-style-type: none"> To simplify the Boolean Functions using K-Map Method To Learn Combinational circuits as Adders and Subtractors, Encoders and Decoders. To Learn the different types of Flip-Flops such as SR Flip flop, JK Flip flop, T Flip flop and D Flip flop. 	<p>functions</p> <ul style="list-style-type: none"> Simplify Boolean functions by using k-map method and Boolean Laws and Theorems. Design of combinational circuits such as Adder, Subtractor, Multiplexer, Encoder and Decoder etc. Understand the design of sequential Circuits such as Flip-Flops, Edge-trigger and master slave flip flops. 	
3	COMPUTER ORGANIZATION AND ARCHITECTURE	CS322	<ul style="list-style-type: none"> To understand the basics of Computer Organization. To know the relationship between computer instruction and the Machine code execution. To know about the various types of CPU Organization and Addressing Modes. To recognize the need of interface between CPU and Input / Output devices. To think critically, independently, and quantitatively about Computer Memory. 	<ul style="list-style-type: none"> Study basic computer organization, design and micro-operations. Prepare machine code from the instructions Understand CPU organization and different types of addressing modes. Understand how the Input/ Output devices communicate with the computer Learn various methods and techniques of memory organization. 	Local
4	COMPUTER GRAPHICS	CS544 A	<ul style="list-style-type: none"> Understand the Role and importance of Algorithms like Line drawing Algorithm, Circle drawing Algorithm, Character generating Algorithm. Understand 2D and 3D Transformations. Understand various Clipping 	<ul style="list-style-type: none"> To provide comprehensive introduction about computer graphics system, design and two-dimensional transformations. To make the students familiar with techniques of clipping, three dimensional graphics 	Local

			<p>Algorithms like point clipping, line clipping and polygon clipping.</p> <ul style="list-style-type: none"> • Understand the importance of the User Dialogue and various input functions. • Understand the Visible Surface Detection Methods. 	<p>and three dimensional transformations.</p> <ul style="list-style-type: none"> • Prepares the students for activities involving in design, development and testing of modeling, rendering, shading and animation 	
5	MOBILE APPLICATIONS DEVELOPMENT	CS633	<ul style="list-style-type: none"> • To develop a mobile application. • To understand the concept of SQLite 	<p>Upon completion of this course, students should be able to:</p> <ul style="list-style-type: none"> • Describe the platforms upon which the Android operating System will run. • Create a simple application that runs under the Android operating system. • Access and work with the Android file system. • Create an application that uses multimedia under the Android operating system. • Access and work with database under the Android operating system. 	Local
6	MICROPROCESSOR USING 8086/88	CS636	<ul style="list-style-type: none"> • To Understand the basic architecture of the Microprocessor • To learn the instruction sets of the processor • To write applications using assembly level language program • To study the input/output interfaces of the processor • To understand the importance of interrupts in programming 	<p>At the end of the course, students should be able to:</p> <ul style="list-style-type: none"> • Identify the types of instructions and the organization of registers and memory • Describe the translation model of assembly language to machine language. • Understand the micro-program by mapping the instructions. • Recognize the types of 	Local

				<p>computer organizations.</p> <ul style="list-style-type: none"> • Accept the better ways of Parallel and Vector processing. 	
7	COMPUTER NETWORKS	CS637 A	<ul style="list-style-type: none"> • To learn the basic concepts of Computer Networks 	<ul style="list-style-type: none"> • To explain how communication works in computer networks and to understand the basic terminology of computer networks • To explain the role of protocols in networking and to analyze the services and features of the various layers in the protocol stack. • To understand design issues in Network Security and to understand security threats, security services and mechanisms to counter it. 	Local