SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

Ready for Every Good Work

Resi	**: (04179) 220103**
College	**: (04179) 220553**
Fax	**: (04179) 226423**

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: BCA

| 1 | DIGITAL COMPUTER FUNDAMENTALS | CA107 | • To know and understand the fundamentals of a computer system
• To understand the basics of digital design and number systems
• To learn about combinational gates and k-maps to simplify the Boolean functions
• To know and understand the purpose of sequential circuits
• To learn the purpose of different registers and counters | • Explain the Characteristics, Generations of a Computer, Purpose and Types of Input & Output Unit, Processing Unit, Memory Unit and Storage devices
• Understand different Number Systems, Complements available to represent data and IC Logic gates, Boolean algebra for the simplification of expressions for Computer processing.
• Apply the Boolean Algebra rules and K-maps for simplification of expressions and explain the purpose and working of Combinational Circuits
• Understand and analyze the Sequential logic circuits - flip flops
• Draw the circuit diagram and | **Regional Developmental Needs** |

				• Explain the purpose and types of registers, counters. • Understand and analyze the different types of memory units	
2	SOFTWARE ENGINEERING	CA518	• To Understand the Software Engineering Practice and Process Models. • To Understand Software Process Modeling Concepts. • To know the concept of Architectural Design method in Software Engineering. • To understand Component based software Engineering. • To know the various methods of Reengineering.	• Identify the need for engineering approach to software development and various processes k1 • Understand about software myths, generic view of the process and process models k2 • Analyze various software engineering models and apply methods for design and development Process. K4 • Acquire knowledge on the wider perspective of software engineering architecture design • Assess the concept of Component Based software Engineering • Enhance in the techniques of risk management and re-engineering	**Regional Developmental Needs**