

Programme Outcomes and Course Outcomes for Programme B.Sc., CT

Batch: 2018 – 21

Programme Outcomes

PO1. To apply the knowledge of current computing techniques, skills, and tools necessary for solving real-world problems with attention to team work, effective communication, critical thinking and problem solving skills.

PO2. To recognize the importance of professional development by pursuing postgraduate studies or face competitive examinations that offer challenging and rewarding careers in computing.

Programme Code:		B. Sc		Programme Title:		Bachelor of Science (Computer Technology)				
Course Code:		18UCT517		Title		Batch:		2018 - 21		
CORE XI: OPENSOURCE TECHNOLOGIES (PHP and MySQL)				Semester				V		
Hrs/Week:			06			Credits:			04	

Course Outcomes (CO)

K1	CO1	To keep in mind PHP basic syntax and PHP object-oriented classes
K2	CO2	To understand functions available to deal with file and directory operations
K3	CO3	To implement cookies, sessions and headers
K4	CO4	To evaluate the database connectivity using PHP MySQL/MySQLi/SQLite extensions and to figure out the error handling methods

Programme Code:		B. Sc.		Programme Title:		Bachelor of Science (Computer Technology)	
Course Code:	18UCT518		Title		Batch:		2018 - 21
CORE XII - INFORMATION SECURITY			Semester			V	
Hrs/Week:		06		Credits:		04	

Course Outcomes (CO):

K1	CO1	To remember about the concepts of Attacks on computers, Encryption and Decryption Methods, Substitution and Transposition Techniques
K2	CO2	To understand how DES and RSA Algorithm works
K3	CO3	To apply the conceptual knowledge of Digital Certificates and Secure Socket Layer
K4	CO4	To analyze the elements related with Cryptographic Algorithms used in S/MIME and Virtual Private Network

Programme Code:		B. Sc		Programme Title:		Bachelor of Science (Computer Technology)	
Course Code:	18UCT519		Title		Batch:		2018 - 21
ELECTIVE I: CLOUD COMPUTING			Semester			V	
Hrs/Week:		06		Credits:		05	

Course Outcomes (CO):

K1	CO1	To recollect cloud networking concepts
K2	CO2	To understand and familiar with the basic concepts of cloud computing and python
K3	CO3	To apply cloud to large scale distributed systems
K4	CO4	To figure out security issues in cloud computing

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)
Course Code:	18UCT519	Elective I- Artificial Intelligence	Batch: 2018 - 21
Semester	V		
Hrs/Week:	06	Credits:	5

Course Outcomes (CO):

K1	CO1	To keep in mind different search strategies for a problem
K2	CO2	To understand concepts of semantic net
K3	CO3	To implement a AI problem to be solved using prolog
K4	CO4	To evaluate different knowledge representation schemes for AI problems

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)
Course Code:	18UCT519	Elective I- Data Mining and Analytics	Batch: 2018 - 21
Semester	V		
Hrs/Week:	06	Credits:	5

Course Outcomes (CO):

K1	CO1	To keep in mind the various concepts of data mining
K2	CO2	To understand the types of data mining and analytics
K3	CO3	To execute data mining algorithms for finding hidden interesting patterns in data
K4	CO4	To evaluate various data mining algorithms and analysis of big data.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)
Course Code:	18UCT520	Title	Batch: 2018 - 21
PROGRAMMING LAB – VII (OPEN SOURCE TECHNOLOGIES)	Semester	V	
Hrs/Week:	05	Credits:	03

Course Outcomes (CO)

K3	CO1	To recollect array functions, file and directory functions, date and time functions in PHP Script
K4	CO2	To understand functions and classes, cookies, sessions and about handling script errors
K5	CO3	To access the database using PHP's MySQLite/PDO extensions

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)
Course Code:	18UCT521	Title	Batch: 2018 - 21
PROGRAMMING LAB – VIII (WEB DESIGNING)	Semester	V	
Hrs/Week:	05	Credits:	03

Course Outcomes (CO)

K3	CO1	To recollect the html tags for designing table, frames and forms in a web page
K4	CO2	To understand style sheets and java script to create interactive web pages
K5	CO3	To validate the DHTML programs and XML programming for constructing user friendly websites

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT623	Title	Batch:	2018 - 21
		ELECTIVE II: EMBEDDED SYSTEMS	Semester	VI
Hrs/Week:	06		Credits:	4

Course Outcomes (CO)

K1	CO1	To keep in mind the basic concepts of Embedded System, Microcontroller, Ports and embedded programming in C, C ++ and Java
K2	CO2	To understand the concepts of devices and buses for device networks, internal architecture and interfacing of different peripheral devices with Microcontrollers
K3	CO3	To deploy in depth knowledge in Device drivers and Interrupts servicing mechanism, inter-process communication and synchronization of processes
K4	CO4	To analyze a vast experience about Real Time Operating Systems and its applications and program modeling concepts in a single and multi processor systems

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT624	Title	Batch:	2018 - 21
		ELECTIVE III: INTRODUCTION TO COMPUTER GRAPHICS AND MULTIMEDIA	Semester	VI
Hrs/Week:	06		Credits:	05

Course Outcomes (CO)

K1	CO1	To keep in mind about video display devices and output primitives
K2	CO2	To understand about text and image file formats
K3	CO3	To implement 2D transformations and viewing functions
K4	CO4	To analyze about principles of animation and data compression techniques

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT622	Title	Batch:	2018 - 21
		CORE XIII - FRAMEWORK TECHNOLOGY	Semester	VI
Hrs/Week:	06		Credits:	04

Course Outcomes (CO)

K1	CO1	To keep in mind about .NET framework fundamentals
K2	CO2	To understand the control statements, arrays and procedures
K3	CO3	To implement the concept of GUI, files and streams
K4	CO4	To analyze about database connectivity with .NET framework

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT623	Title	Batch:	2018 - 21
		ELECTIVE II: E-Commerce	Semester	VI
Hrs/Week:	06		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember basic concepts of e-commerce
K2	CO2	To understand the role of E-business in current scenario
K3	CO3	To apply different modes of payment
K4	CO4	To analyze various issues associated with e-commerce

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT623	Title	Batch:	2018 - 21
		ELECTIVE II: Under Water Communication	Semester	VI
Hrs/Week:	06		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the basic concepts of Underwater Environment.
K2	CO2	To understand the role of Radar, Antennas, Signals in underwater network Communication.
K3	CO3	To apply different modes of under water applications.
K4	CO4	To analyze various issues associated with under water communications

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT624	Title	Batch:	2018 - 21
		ELECTIVE III: Internet of Things (IoT)	Semester	VI
Hrs/Week:	06		Credits:	5

Course Outcomes (CO)

K1	CO1	To keep in mind that the vision of IoT from a global context.
K2	CO2	To Understand the Use of Devices, Gateways and Data Management in IoT.
K3	CO3	To deploy the Building state of the art architecture in IoT.
K4	CO4	To analyze the Application of IoT in Industrial and and Real World Design Constraints.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT624	Title	Batch:	2018 - 21
		ELECTIVE III: MOBILE COMPUTING	Semester	VI
Hrs/Week:	06		Credits:	5

Course Outcomes (CO)

K1	CO1	To keep in mind the various networks, standards, communication medium, Spread spectrum technology
K2	CO2	To Understand the basic concepts of wireless networks.
K3	CO3	To deploy the mobile applications to the devices.
K4	CO4	To analyze the various wireless networks techniques.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT625	Title	Batch:	2018 - 21
		PROGRAMMING LAB IX (FRAMEWORK TECHNOLOGY)	Semester	VI
Hrs/Week:	05		Credits:	03

Course Outcomes (CO)

K3	CO1	To recollect the concept of control statements, arrays, functions
K4	CO2	To understand the basic concepts of .NET framework and then develop console and windows application
K5	CO3	To validate the concept of files and exception handling mechanism

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT6S3	Title	Batch:	2018 - 21
		Skill Based MAJOR ELECTIVE II – DATA ANALYTICS (BIG DATA)	Semester	VI
Hrs/Week:	01		Credits:	02

Course Outcomes (CO)

K3	CO1	To keep in mind about the data analysis using Excel
K4	CO2	To realize about sorting, cost benefit analysis, calculating mean and standard deviation.
K5	CO3	To validate the use of analysis tools to conduct regression and forecasting and calculate descriptive statistics

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	18UCT6S4	Title	Batch:	2018 - 21
		Skill Based MAJOR ELECTIVE II - DREAMWEAVER LAB	Semester	VI
Hrs/Week:	01		Credits:	02

Course Outcomes (CO)

K3	CO1	To keep in mind about the efficient use of Dreamweaver tools to create a website that adheres to current HTML and CSS
K4	CO2	To realize appropriate terminology to describe both web development and basic programming concepts and advanced aspects of the Dreamweaver interface and paradigm
K5	CO3	To validate programs by implementing PHP, CSS, JavaScript, JSP, HTML in Dream Weaver

2019 – 22 Batch (Semester: III & IV)

Programme Outcomes

- PO1.** To apply the knowledge of current computing techniques, skills, and tools necessary for solving real-world problems with attention to team work, effective communication, critical thinking and problem solving skills.
- PO2.** To recognize the importance of professional development by pursuing postgraduate studies or face competitive examinations that offer challenging and rewarding careers in computing.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT307	Title	Batch:	2019 - 22
		CORE V: JAVA PROGRAMMING	Semester	III
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To remember about classes, objects, members of a class and relationships among them needed for a specific problem
K2	CO2	To comprehend the concepts of inheritance, interface and package
K3	CO3	To implement error handling techniques using exception handling
K4	CO4	To evaluate the concepts of thread, applet and files

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT308	Title	Batch:	2019 - 22
		CORE VI: DATABASE MANAGEMENT SYSTEM	Semester	III
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To keep in mind relationships, Normal forms, Basic DDL Commands, DML Commands, Grouping Functions using SQL
K2	CO2	To comprehend deep knowledge about the basics of SQL and construct queries using ORACLE
K3	CO3	To apply joins and set operators, control structures and embedded SQL for data management and retrieval techniques
K4	CO4	To analyze the basic issues of transaction processing, concurrency control and understand the importance of PL/SQL Cursors and Exceptions

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT309	Title	Batch:	2019 - 22
		CORE VII: OPERATING SYSTEMS	Semester	III
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To keep in mind about operating system services, process, scheduling and memory allocations
K2	CO2	To comprehend the various process management concepts including scheduling, synchronization, and deadlocks
K3	CO3	To implement CPU Scheduling algorithms for process scheduling and deploy a deep knowledge about the memory management concepts including swapping, paging and segmentation
K4	CO4	To review synchronization problems, accessing methods in Files, Disk scheduling

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT3A3	Title	Batch:	2019 - 22
		ALLIED III: COMPUTER SYSTEM ARCHITECTURE	Semester	III
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To remember the organization and design of a basic digital computer
K2	CO2	To get the idea of general register organization of a typical CPU
K3	CO3	To execute arithmetic algorithms with digital hardware and also present the I/O organization of CPU
K4	CO4	To analyze the memory hierarchy models and memory method concepts

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT310	Title	Batch:	2019 - 22
		LAB – III - JAVA PROGRAMMING	Semester	III
Hrs/Week:	04		Credits:	02

Course Outcomes (CO)

K3	CO1	To recollect the concepts of control structures, polymorphism, inheritance, method overriding in Java
K4	CO2	To understand interface, package and multithreading
K5	CO3	To validate exception handling, file handling and to develop applets

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT311	Title	Batch:	2019 - 22
		LAB- IV- DATABASE MANAGEMENT SYSTEM	Semester	III
Hrs/Week:	04		Credits:	02

Course Outcomes (CO)

K3	CO1	To recollect the basic commands such as DDL, DML, TCL
K4	CO2	To understand about various set, join operations and group functions in PL/SQL
K5	CO3	To validate the PL/SQL cursors, GROUPBY clauses

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT3N1	Title	Batch:	2019 - 22
		Skill Based NON-MAJOR ELECTIVE I - HTML LAB	Semester	III
Hrs/Week:	01		Credits:	02

Course Outcomes (CO)

K3	CO1	To keep in mind the concept of Basic HTML tags
K4	CO2	To understand about ordered list and unordered list, creation of table, creations of forms
K5	CO3	To validate the creation of a simple webpage using basic HTML

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT3N2	Title	Batch:	2019 - 22
		Skill Based NON-MAJOR ELECTIVE I - MULTIMEDIA LAB	Semester	III
Hrs/Week:	01		Credits:	02

Course Outcomes (CO)

K3	CO1	To keep in mind the basic concept of Photoshop tools and menus
K4	CO2	To understand drop shadow and scaling effects in an image
K5	CO3	To access the Web Page functionalities using Photoshop

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT 412	Title	Batch:	2019- 22
		CORE VIII: ADVANCED JAVA PROGRAMMING	Semester	IV
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To remember the swing components
K2	CO2	To understand about servlets and Server Side Includes
K3	CO3	To implement JDBC connectivity and Java Server Pages
K4	CO4	To review the various types of beans

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT 413	Title	Batch:	2019 - 22
		CORE IX: SOFTWARE ENGINEERING	Semester	IV
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To keep in mind layers of process models, Requirement gathering phases design concepts and testing strategies
K2	CO2	To picture out the main aspects of software engineering and evaluate requirements for a software system and analyzing the requirements through modeling
K3	CO3	To apply the process of analysis and design using the object-oriented approach
K4	CO4	To interpret the design engineering and various Testing tactics

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT414	Title	Batch:	2019 - 22
		CORE X: DATA COMMUNICATION AND NETWORKS	Semester	IV
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To remember analog and digital signals, topologies and various modes of data transmission
K2	CO2	To understand the theory behind the OSI protocol stack
K3	CO3	To implement various types of internetworking devices
K4	CO4	To review transmission control protocols like UDP, DNS, E-mail and MIME

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT4A4	Title	Batch:	2019 - 22
		ALLIED IV: PROCESSORS	Semester	IV
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To remember the microprocessor basic concepts, types of processors and instruction sets
K2	CO2	To get the idea of assembly language program for 8086
K3	CO3	To deploy designing of memory and I/O addressing of various microprocessors
K4	CO4	To review interfacing of A/D converter and applications

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT415	Title:	Batch:	2019 - 22
		LAB - V : ADVANCED JAVA PROGRAMMING	Semester:	IV
Hrs/Week:	04		Credits:	04

Course Outcomes (CO)

K3	CO1	To recollect the concept of Swing Components and cookies
K4	CO2	To understand and integrate Servlets, JDBC and JSP to develop web applications
K5	CO3	To validate the idea of Java Beans to build enterprise applications

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT416	Title	Batch:	2019 - 22
		LAB - VI - SOFTWARE ENGINEERING AND TESTING	Semester	IV
Hrs/Week:	04		Credits:	04

Course Outcomes (CO)

K3	CO1	To apply the testing in programming concepts.
K4	CO2	To analyze the different concepts and tools.
K5	CO3	To verify the expected result with the obtained result.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT4N3	Title	Batch:	2019 - 22
		Skill Based NON-MAJOR ELECTIVE II – OFFICE AUTOMATION LAB	Semester	IV
Hrs/Week:	01		Credits:	02

Course Outcomes (CO)

K3	CO1	To keep in mind about the menus and icons functionalities in MS Word
K4	CO2	To understand and apply mathematical functions to calculate mean, median and standard deviation using Excel

K5	CO3	To Prepare a power point presentation for a range of events
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Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	19UCT4N4	Title	Batch:	2019 - 22
		Skill Based NON-MAJOR ELECTIVE II - CORELDRAW LAB	Semester	IV
Hrs/Week:	01		Credits:	02

Course Outcomes (CO)

K3	CO1	To keep in mind about CorelDraw workspace, tools and panels
K4	CO2	To comprehend a variety of images using crop tools, zooming, curve and smart fill tools
K5	CO3	To validate the animation works using CorelDraw

Batch: 2020-2023 (Semester I & II)

Programme Outcomes

- PO1.** To apply the knowledge of current computing techniques, skills, and tools necessary for solving real-world problems with attention to team work, effective communication, critical thinking and problem solving skills.
- PO2.** To recognize the importance of professional development by pursuing postgraduate studies or face competitive examinations that offer challenging and rewarding careers in computing.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT101	Title CORE I: PROGRAMMING IN C	Batch:	2020-23
			Semester	I
Hrs/Week:	04		Credits:	03

Course Outcomes (CO)

K1	CO1	To remember data types, identifier, arrays, strings and pointers
K2	CO2	To understand how to write and use control statements and functions in C
K3	CO3	To implement the concept of pointers, structure and union
K4	CO4	To evaluate string functions and file Operations in C programming for a given application

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT102	Title CORE II: DIGITAL FUNDAMENTALS AND COMPUTER ORGANIZATION	Batch:	2020-23
			Semester	I
Hrs/Week:	04		Credits:	03

Course Outcomes (CO)

K1	CO1	To recollect number system, Binary Codes concepts
K2	CO2	To understand the concepts of Boolean laws, logic gates, Karnaugh map for Minimization of POS and SOP form of Boolean expressions.
K3	CO3	To apply arithmetic and logic circuits, different sequential circuits with flip flops, registers .
K4	CO4	To analyze the concept of Register Organization, Data Transfer and Manipulation, registers and Memory Organization.

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT1A1	Title	Batch:	2020-23
		ALLIED I: MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE	Semester	I
Hrs/Week:	05		Credits:	04

Course Outcomes (CO)

K1	CO1	To remember an in-depth knowledge in Matrices, Determinants, Inverse of a matrix, Rank of a Matrix and Eigen value Problems
K2	CO2	To understand the concepts of numerical differentiation and integration
K3	CO3	To apply an appropriate numerical method for solving algebraic or transcendental equation
K4	CO4	To figure out the concept of Mean, Median, Mode, Measures of dispersion and the law relating to Correlation and Regression

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20 UCT 103	Title	Batch:	2020-23
		LAB – I - PROGRAMMING IN C	Semester	I
Hrs/Week:	04		Credits:	02

Course Outcomes (CO)

K3	CO1	To remember the concept of data types, decision making and looping control statements
K4	CO2	To get the idea of array, strings and functions in C
K5	CO3	To access the file information through open/close and reading/writing operations in a file

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT204	Title	Batch:	2020-23
		CORE III: OBJECT ORIENTED PROGRAMMING WITH C++	Semester	II
Hrs/Week:	04		Credits:	03

Course Outcomes (CO)

K1	CO1	To recollect keywords, tokens, data types, oops concepts and control structures in C++
K2	CO2	To understand the design issues involved with variable allocation and binding, functions, classes and objects
K3	CO3	To apply features of object oriented programming to solve real world problems using constructors, destructors and operator overloading concepts
K4	CO4	To interpret the concepts of pointers, managing console I/O operators and file operations in C++

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT205	Title	Batch:	2020-23
		CORE IV: DATA STRUCTURES	Semester	II
Hrs/Week:	04		Credits:	03

Course Outcomes (CO)

K1	CO1	To remember arrays, stack/queue operations and trees
K2	CO2	To understand and develop skills to analyze simple linear and non linear data structures
K3	CO3	To apply the concept of linked lists, graphs and trees for the real world problems
K4	CO4	To evaluate file organizations, various searching and sorting methodologies

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT2A2	Title	Batch:	2020-23
		ALLIED II: DISCRETE MATHEMATICS	Semester	II
Hrs/Week:	04		Credits:	04

Course Outcomes (CO)

K1	CO1	To keep in mind about the Set theory and its laws
K2	CO2	To understand the law relating to Propositional calculus, Tautologies and Contradiction
K3	CO3	To implement the conceptual knowledge of Relations and Functions
K4	CO4	To evaluate the elements related to various aspects of Graph Theory and its representation

Programme Code:	B. Sc	Programme Title:	Bachelor of Science (Computer Technology)	
Course Code:	20UCT206	Title	Batch:	2020-23
		LAB – II: PROGRAMMING IN C++ WITH DATA STRUCTURES	Semester	II
Hrs/Week:	04		Credits:	02

Course Outcomes (CO)

K3	CO1	To recollect the structure of the C++ programming language
K4	CO2	To understand how to implement copy constructors and class member concept of data abstraction and encapsulation and to overload functions and operators in C++
K5	CO3	To access how inheritance promote code reuse, how virtual functions implement dynamic binding with polymorphism, how to design and implement generic classes with C++ templates and how to use exception handling in C++ programs

