COURSE OUTCOMES (COs) FOR UNDERGRADUATE COURSES

1) **Program: B.B.A.(C.A)**

Course Outcomes	
Subject Code :	**F.Y.B.B.A (C.A.) SEM-I**
CO1 (MS OFFICE AND ENVIRONMENT)	a) Understand basics of different computer peripherals and interfaces. b) Describe architecture of various computer hardware devices and their functioning. c) Study the details of system buses, memory system, and I/O interfaces. d) Identify the existing configuration of the computers and peripherals. e) Analyze progress in contemporary peripherals and bus systems..
CO2 (FINANCIAL ACCOUNTING)	a)To accurately prepare an organization's final accounts for a specific period, otherwise known as financial statements. b)The three primary financial statements are the income statement, the balance sheet and the statement of cash flows.
CO3 (PRINCIPLES OF PROGRAMMING ALGORITHM)	a) Define the basic concepts of algorithms and analyze the performance of algorithms. b) Discuss various algorithm design techniques for developing algorithms. c) Discuss various searching, sorting and graph traversal algorithms.
CO4 (BUISINESS COMMUNICATION)	a)To understand what is the role of communication in personal and business world . b)To understand system and communication and their utility.
CO5 (PRINCIPAL OF MANAGEMENT)	a)To understand basic concept regarding org. Business Administration b)To examining how various management principles . c)To develop managerial skills among the students
CO6 Pract (MS OFFICE & FIN.ACCOUNTING)	Student acquired the practical knowledge about subject.
Subject Code :	**F.Y.B.B.A (C.A.) SEM-II**
CO1 (C PROGRAMMING)	a) C language is one of the most popular programming languages which are able to make low level applications like device drivers, operating systems, firmware etc along with the high level applications like desktop applications. b) C language is much popular for embedded systems programming

	due to its flexibility.
CO2 (DATABASE MANAGEMENT SYSTEM)	a) In this way, data appears centralized logically. b) Data integrity: Data integrity means the reliability and accuracy of data. Integrity rules are designed to keep the data consistent and correct.
CO3 (ORGANIZATIONAL BEHAVIOUR)	The primary objective of Organization behavior is achieving higher productivity and accomplishing the goals of the organization. For that OB scientifically tries to understand the employee behavior within the organization and tries to control, improve, develop it.
CO4 (STATESTICS)	a)To understand role and importance of statistics in various business situations . b)To develop skills related with basic statistical technique. Develop right understanding regarding regression, correlation and data interpretation
CO5 (E-COMMERCE CONCEPTS)	E-Commerce allows people to sell and buys goods or services over an electronic medium, like the internet.
CO6 PRACT(C,DBMS)	Student acquired the practical knowledge about subject.

Course Outcomes	
Subject Code :	**S.Y.B.B.A (C.A.) SEM-III**
CO1 (RELATIONAL DATABASE)	a) Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models. b) Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing. c) Learn and apply Structured query language (SQL) for database definition and database manipulation. d) Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database. e) Understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

CO2 (DATA STRUCTURE USING C)	a) Understand the concept of Dynamic memory management, data types, algorithms, Big O notation. b) Understand basic data structures such as arrays, linked lists, stacks and queues. c) Describe the hash function and concepts of collision and its resolution methods d) Solve problem involving graphs, trees and heaps e) Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data
CO3 (OPERATING SYSTEM CONCEPTS)	a) Understand the basics of operating systems like kernel, shell, types and views of operating systems b) Describe the various CPU scheduling algorithms and remove deadlocks. c) Explain various memory management techniques and concept of thrashing d) Use disk management and disk scheduling algorithms for better utilization of external memory. e) Recognize file system interface, protection and security mechanisms. f) Explain the various features of distributed OS like Unix, Linux, windows etc.
CO4 (BUSINESS MATHEMATICS)	On successful completion of this course, student should be able to: a)define basic terms in the areas of business calculus and financial mathematics. b) explain basic methods of business calculus, types and methods of interest account and their basic applications in practice. c) solve problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit discern effects of various types and methods of interest account. d) connect acquired knowledge and skills with practical problems in economic practice.
CO5 (SOFTWARE ENGINEERING)	To develop methods and procedures for software development that can scale up for large systems and that can be used consistently to produce high-quality software at low cost and with a small cycle of time.
CO6 PRACT(D.S,RDBMS)	Student acquired the practical knowledge about subject.
Subject Code :	**S.Y.B.B.A (C.A.) SEM-IV**
CO1 (C++	a) Describe the procedural and object oriented paradigm with concepts

PROGRAMMING)	of streams, classes, functions, data and objects. b) Understand dynamic memory management techniques using pointers, constructors, destructors, etc c) Describe the concept of function overloading, operator overloading, virtual functions and polymorphism. d) Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming. e) Demonstrate the use of various OOPs concepts with the help of programs
CO2 (VISUAL BASICS)	a) To learn properties and events, methods of controls and how to handle events of different controls. b) To understand the use of active controls and how to design VB application c) To learn connectivity between VB and databases
CO3 (COMPUTER NETWORKING)	a) Identify and use various networking components Understand different transmission media and design cables for establishing a network b) Implement any topology using network devices c) Understand the TCP/IP configuration for Windows and Linux d) Implement device sharing on network e) Learn the major software and hardware technologies used on computer networks
CO4 (ERP)	a)Reducing inventory cost is another core objective of ERP implementation. b)Better order tracking, knowing customer needs and business requirements by ERP assists in proper utilization and management of resources. c)It enhances operational process and maximizes the return on investment rates.
CO5 (HUMAN RESOURSE MANAGEMENT SYSTEM)	a)Effective Utilization Of Resources.Organizational Structure. b)Development Of Human Resources. c)Respect For Human Beings. d)Goal Harmony.

	e)Employee Satisfaction. f)Employee Discipline And Moral. g)Organizational Productivity.
CO6(C++, VB)	Student acquired the practical knowledge about subject.

Course Outcomes	
Subject Code :	**T.Y.B.B.A (C.A.) SEM-V**
CO1 (JAVA PROGRAMMING)	Students will be able to: a) Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity. b) Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem c) Demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved. d) Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development. e) Identify and describe common abstract
CO2 (WEB TECHNOLOGY)	a) Explain the history of the internet and related internet concepts that are vital in understanding web development. b) Discuss the insights of internet programming and implement complete application over the web. c) Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet. d) Utilize the concepts of JavaScript and Java. e) Use web application development software tools i.e. Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.
CO3 (.NET)	a) To introduce visual programming and event driven programming practically. b) To enhance applications development skill of the student.
CO4 (OOSE)	a)To learn and understand various O-O concepts along with their applicability contexts.

	b) Given a problem, identify domain objects, their properties, and relationships among them. c) How to identify and model/represent domain constraints on the objects and (or) on their relationships d) Develop design solutions for problems on various O-O concepts e) To learn various modeling techniques to model different perspectives of object-oriented software design (UML) f) To learn software development life cycle for Object-Oriented solutions for Real-World Problems. g) To learn O-O design solutions for the recurring problems
CO5 (SOFT PROJ)	Students will be able to: a) Discover potential research areas in the field of IT b) Conduct a survey of several available literature in the preferred field of study c) Compare and contrast the several existing solutions for research challenge d) Demonstrate an ability to work in teams and manage the conduct of the research study. e) Formulate and propose a plan for creating a solution for the research plan identified f) To report and present the findings of the study conducted in the preferred domain
CO6 PRACT(WEB TECH,JAVA)	Student acquired the practical knowledge about subject.
Subject Code :	**T.Y.B.B.A (C.A.) SEM-VI**
CO1 (ADV. WEB TECHNOLOGY)	Understand the major areas and challenges of web programming. Distinguish web-related technologies. a) Use advanced topics in HTML5, CSS3, JavaScript b) Use a server-side scripting language, PHP c) Use a relational DBMS, MySQL d) Use PHP to access a MySQL database. e) Design and implement :typical static web pages and interactive web applications

	:dynamic web applications.
CO2 (ADV JAVA)	a) learn the Internet Programming, using Java Applets b) create a full set of UI widgets and other components, including windows, menus, buttons, checkboxes, text fields, scrollbars and scrolling lists, using Abstract Windowing Toolkit (AWT) & Swings c) apply event handling on AWT and Swing components. d) learn to access database through Java programs, using Java Data Base Connectivity (JDBC) e) create dynamic web pages, using Servlets and JSP. f) make a resusable software component, using Java Bean. g) invoke the remote methods in an application using Remote Method Invocation (RMI) h) understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB). i) develop Stateful, Stateless and Entity Beans. j) use Struts frameworks, which gives the opportunity to reuse the codes for quick development. k) map Java classes and object associations to relational database tables with Hibernate mapping files
CO3 (RECENT TRENDS IN IT)	a) To introduce upcoming trends in Information technology. b) To study Eco friendly software development.
CO4 (SOFTWARE TESTING)	Finding defects which may get created by the programmer while developing the software. Gaining confidence in and providing information about the level of quality. To prevent defects.
CO5 (PROJECT)	Students will be able to: a) Discover potential research areas in the field of IT b) Conduct a survey of several available literature in the preferred field of study

	c) Compare and contrast the several existing solutions for research challenge d) Demonstrate an ability to work in teams and manage the conduct of the research study. e) Formulate and propose a plan for creating a solution for the research plan identified f) To report and present the findings of the study conducted in the preferred domain
CO6 PROJ(ADV WEB,ADV JAVA)	Student acquired the practical knowledge about subject.