

**Program Outcomes**

- PO1-To impart professional training to upgrade computer and soft skills.
- PO2-To develop competency and capability to prepare for test cases.
- PO3-To make professional developer by inculcating a practice to develop creative and innovative program.
- PO4-To develop analytical mind for the creation of effective software. PO5-To promote working in team for software projects and practice basic management skills

**Program Specific outcomes**

- PSO1-To learn and practically use various programming languages.
- PSO2-To learn and create database using Access and SQL Server.
- PSO3-To understand basics of statistics and business mathematics.
- PSO4-To implement concept of Object Oriented Software Engineering through UML.
- PSO5-To understand software testing and current trends in IT.
- PSO6-To understand and apply software engineering concepts in software project development through teamwork.
- PSO7-To get domain knowledge related to areas like accounting, organizational behavior, and human resource management.

**Course Outcomes**

**F.Y.B.B.A.(C.A) Semester I**

**Course 101: Business Communication skills**

- 1. To understand the concept, process and importance of communication.
- 2. To develop an integrative approach where reading, writing, presentation skills are used Together to enhance the students' ability to communicate and write effectively
- 3. To create awareness among students about Methods and Media of communication.
- 4. To make students familiar with information technology and improve job seeking skills.

**Course 102: Principles of Management**

- 1. To provide the fundamental knowledge about working of business organization.
- 2. To make students well acquainted with management process, functions and principles.
- 3. To make the students familiar with recent trends in management

**Course 103: C-Programming**

- 1. To understand the basics of procedural programming language ie C
- 2. To build logic of implementing a program using basic programming constructs
- 3. To acquaint with file handling and basic memory allocation.

**Course 104: Database Management Systems**

- 1. To enable the students to acquire sound knowledge of basic concepts of Database Management System
- 2. To teach basic organization of data using files
- 3. To understand creations, manipulation and querying of data in databases

**Course 105: Business Statistics**

- 1. To understand the power of excel spreadsheet in computing summary statistics.
- 2. To understand the concept of various measures of central tendency and variation and their importance in business.
- 3. To understand the concept of probability, probability distributions and simulations in business world and decision making.
- 4. Develop right understanding regarding regression, correlation and data interpretation

**Course 106: Laboratory Course – I [Based on Paper No. 101 & 102]**

- 1. To learn the design of algorithm and flowchart
- 2. To learn Tally as an accounting package
- 3. To understand mail merge and resume building using MS Word 4. To develop presentations using MS Powerpoint
- 4. To calculate using MS Excel and analyse using MS Excel Chart

**Course 107: Programming Principles & Algorithms(ADD ON)**

- 1. To develop Analytical / Logical Thinking and Problem Solving capabilities
- 2. To learn the design of algorithms and flowchart 3. To calculate the space time complexity of an algorithm.



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## **F.Y.B.B.A.(C.A) Semester II**

### **Course 201: Organizational Behavior & Human Resource Management**

- i) To understand basic concept of HRM & OB
- ii) To make aware students about traditional & modern methods of procurement & development in organization.
- iii) To know the major trends in HRM & OB.

### **Course 202: Financial Accounting**

- i) To develop right understanding regarding role and importance of monetary and financial transactions in business
- ii) To cultivate right approach towards classifications of different transactions and their implications
- iii) To develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L

### **Course 203: Business Mathematics**

- i) To understand role and importance of Mathematics in various business situations and while developing softwares.
- ii) To develop skills related with basic mathematical technique

### **Course 204: Relational Data Base**

- i) Enables students to understand relational database concepts and transaction management concepts in database system.
- ii) Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.

### **Course 205: Web Technology (HTML-JSS-CSS)**

- i) To know & understand concepts of internet programming.
- ii) To understand how to develop web based applications using JavaScript.

### **Course 206: Laboratory Course – II [Based on Paper No.204 & 205]**

- 1. To understand the basics of C programming
- 2. To implement various algorithms using programming constructs
- 3. To create data storage entity such as tables
- 4. To execute different database queries using structured query language



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**S.Y.B.B.A.(C.A) Semester III (2013 patt)**

**Course 301: Relational Database Management Systems**

1. To enable student to understand relational database concepts and transaction management concepts in database system.
2. To enable student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.
3. To understand concurrency control and recovery in database system

**Course 302: Data Structures using C**

1. To understand different methods of organising large amounts of data 2. To efficiently implement different data structure
2. To efficiently implement solution for different problems
3. To get more knowledge on C programming language

**Course 303: Operating System Concepts**

1. To know services provided by operating system
2. To know the process scheduling concepts, synchronization and deadlocks 3. To understand memory and file management
3. To understand input output system and disk scheduling

**Course 304: Business Mathematics**

1. To understand use of basic mathematics in everyday operations
2. To know matrices and determinants
3. To understand linear programming problem and transportation problem

**Course 305: Software Engineering**

1. To enable student to understand system concepts and the types of systems 2. To understand analysis of a software system through various system methodologies 3. To know the designing of software system and its application in Software development.

**Course 306: Laboratory Course – III [Based on Paper No. 301 and 302]**

**S.Y.B.B.A.(C.A) Semester IV**

**Course 401: OOPS using C++**

1. Acquire an understanding of basic object-oriented concepts
2. To understand the issues involved in effective class design.
3. Enables student to write C++ programs that use: object-oriented concepts such as Information hiding, constructors, destructors, inheritance.

**Course 402: Programming in Visual Basic**

1. To learn properties and events, methods of controls in Visual Basic
2. To know handling of events of different controls.
3. To understand the use of active controls and designing of VB application
4. To learn connectivity between VB and databases.

**Course 403: Computer Networking**

1. To know about computer network.
2. To understand different topologies used in networking
3. To learn different types of network.
4. To understand the use of connecting device used in network.

**Course 404: Enterprise Resource Planning**

1. To know concepts of Enterprise Resource Planning 2. To learn different ERP technologies.

**Course 405: Human Resource Management**

  
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1. To acquaint the students with the Human Resource Management 2. To understand its role in different functions of an organization
2. To know the Human Resource Processes that are concerned with planning, motivating and developing suitable employees for the benefit of the organization.

**Course 406: Laboratory Course – IV [Based on Paper No. 401 & 402 ]**

**T.Y.B.B.A.(C.A) Semester V**

**Course 501: Java Programming**

1. To learn the basic concept of Java Programming.
2. To understand how to use programming in day to day applications. 3. To know about applet, swing and abstract window toolkit

**Course 502: Web Technologies**

1. To know & understand concepts of internet programming.
2. To understand markup language and client side scripting
3. To understand how to develop web based applications using PHP.

**Course 503: Dot Net Programming**

1. To introduce visual programming and event driven programming theoretically as well as practically.
2. To enhance applications development skill of the student.
3. To implement object oriented programming and crystal reports using database connectivity

**Course 504: Object Oriented Software Engg.**

1. To learn to analyse software systems using object orientation
2. To Understand concept of system design using Unified Modeling Language. 3. To understand system development through object oriented techniques.

**Course 505: Software Project – I [Based on C++ / VB Technology]**

**Course 506: Laboratory Course – V [Based on Paper No. 501 & 502 ]**

**T.Y.B.B.A.(C.A) Semester VI**

**Course 601: Advanced Web Technologies**

1. To know & understand concepts of internet programming
2. To understand server side programming and database connectivity 3. To understand the concepts of XML and AJAX.
3. To be aware of web services

**Course 602: Advanced Java**

1. To know the concept of multithreading in Java Programming.
2. To develop small applications using JDBC concepts 3. To understand Servlet and Java Servlet Pages 4. To learn Java Beans and remote method invocation

**Course 603: Recent Trends in IT**

1. To introduce upcoming trends in Information technology. 2. To study Eco friendly software development. 3. To learn distributed databases concepts and data warehouse

**Course 604: Software Testing**

1. To know the concept of software testing. 2. To understand the methods of testing bugs in software. 3. To get acquainted with software testing tools

**Course 605: Software Project – II [Java / Dot net Technology]**



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1. To develop a software for a given problem domain
2. To document the project development cycle
3. To work as a team member for the software project completion

**Course 606: Laboratory Course – VI [Based on Paper No. 601 & 602 ]**

1. To implement the theory learnt in 601 and 602 through various practical assignments
2. To understand the installation and organization of web server like Apache



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## S.Y.B.B.A.(C.A.) Semester –II

**Course Code: CA-301 Subject: Digital Marketing**

Objectives:

1. The aim of this syllabus is to give knowledge about using digital marketing in and as business.
2. To make SWOT analysis, SEO optimization and use of various digital marketing tools.

**Course Code: CA-302 Subject : Data Structure**

Objectives:

1. To understand the concepts of ADTs
2. To learn linear data structures – lists, stacks, and queues
3. To understand sorting, searching and hashing algorithms
4. To apply Tree and Graph structures

**Course Code: CA-303 Subject: Software Engineering**

Objectives:

1. To understand System concepts.
2. To understand Software Engineering concepts.
3. To understand the applications of Software Engineering concepts and Design in Software

**Course Code: CA- 304 (Option) Subject: Angular – JS**

Objectives:

By the end of this course, the students should be able to Understand Client Side MVC and

- SPA Explore AngularJS Component
- Develop an AngularJS Single Page Application
- Create and bind controllers with Javascript
- Apply filter in AngularJS application

**Course Code: CA-305 (Option) Course Title : BlockChain**

COURSE OBJECTIVES By the end of the course, students will be able to

1. Understand how blockchain systems (mainly Bitcoin and Ethereum) work
2. To securely interact with them
3. Design, build, and deploy smart contracts and distributed applications
4. Integrate ideas from blockchain technology into their own projects.

  
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**Course Code: CA-401 Subject: Networking**

**Objectives:**

1. To gain knowledge about Computer Networks concepts.
2. To know about working of networking models, addresses, transmission medias and connectivity devices.
3. To acquire information about network security and cryptography.

**Course Code: CA-402 Subject: Object Oriented Concepts Through CPP**

**Objectives:**

1. Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
2. Enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.

**Subject: Operating System Course Code:CA-403**

**Objectives:**

1. To know the services provided by Operating System
2. To know the scheduling concept
3. To understand design issues related to memory management and various related algorithms.
4. To understand design issues related to File management and various related algorithms

**Course Code: CA- 404 (Option) Course Title : Advance PHP**

**Objectives -:**

1. To know & understand concepts of internet programming.
2. Understand how server-side programming works on the web.
3. Understanding How to use PHP Framework (Joomla / Drupale)

**Course Code: CA- 404(Option) Course Title : Node – JS**

**Objectives:**

1. Understand the JavaScript and technical concepts behind Node JS
2. Structure a Node application in modules
3. Understand and use the Event Emitter
4. Understand Buffers, Streams, and Pipes
5. Build a Web Server in Node and understand how it really works
6. Connect to a SQL or Mongo database in Node



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