Marathwada Mitra Mandal College of Commerce

BBA(CA)

BBA(CA) 2019 CBCS Pattern

Program Outcomes (PO)

PO1 - To acquire knowledge of statistics, accounts, management, organizational behaviour and computer application for analysing and solving real world problems under choice based credit system

PO2 - To develop logical reasoning skills and analytical aptitude skills

PO3 - To build the necessary skill set for problem analysis.

PO4 - To develop designing skills and solutions as per requirement

PO5 - To learn the usability of techniques and skills of modern software

PO6 - To inculcate professional and social responsibilities

PO7 - To understand the role of computer application in environment and sustainable development

PO8 - To apply professional ethics in work environment

PO9 - To gain inter disciplinary knowledge for entrepreneurship development

PO10 - To develop business communication skills for working with teams

PO11 - To prepare for emerging computer technologies and their applicability

Program Specific Outcomes (PSO)

PSO1- Implement programming language and database concepts.

PSO2- To learn ability enhancement programs like Scratch, j Query, Advanced C etc

PSO3- Understand computer networks and security concepts

PSO4- Design and develop interdisciplinary software projects by applying concepts of software engineering

PSO5- To practice ability enhancement skills through web application development, analytical tools etc

PSO5-To be aware of communication and environmental sustainability.

PSO6-To develop skills required for software projects in multidisciplinary areas

Course Outcomes (CO)

Semester - I

CA101 Business Communication Skills

1. To understand what is the role of communication in personal and business world
2. To understand system and communication and their utility
3. To develop proficiency in how to write business letters and other communications required in business

CA102 Principles of Management

1. To understand basic concepts regarding org. Business Administration
2. To examining how various management principles
3. To develop managerial skills among the students

CA103 C-Programming

1. To get awareness of Programming languages
2. To understand fundamental knowledge about Input and Output operation
3. To build logic of implementing a program using basic programming constructs

CA104 Database Management Systems

1. To understand the basics of data storage, data manipulation and data retrieval
2. To learn basics of data entity relationship and normalization
3. To acquaint with various types of data storage models.
4. To learn data abstraction layer

CA105 Business Statistics

1. To understand role and importance of statistics in various business situations
2. To develop skills related with basic statistical technique
3. Develop right understanding regarding regression, correlation and data interpretation

CA 106 Computer Laboratory Based on CA103 and CA 104

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

Semester - II

CA 201 Organizational Behavior & Human Resource Management

1. To understand basic concept of HRM & OB
2. To make aware students about traditional & modern methods of procurement & development in organization.
3. To know the major trends in HRM & OB

CA 202 Financial Accounting

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

CA 203 Business Mathematics

1. To understand the role and importance of Mathematics in various business situations and while developing softwares.
2. To develop skills related with basic mathematical technique

CA 204 Relational Data Base

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

CA 205 Web Technology (HTML-JSS-CSS)

1. To know & understand concepts of internet programming.
2. To understand how to develop web based applications using JavaScript.

CA 206 Computer Laboratory Based on CA 204 & CA 205

1. To know & understand concepts of internet programming
2. To understand markup language and client side scripting

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

Semester - III

CA 301 Digital Marketing

1. 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.

CA 302 Data Structure

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

CA 303 Software Engineering

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

CA 304-A Angular - JS

1. To understand Client Side MVC and SPA
2. To explore AngularJS Component
3. To develop an AngularJS Single Page Application
4. To create and bind controllers with Javascript
5. To apply filter in AngularJS application

CA 304-B PHP

1. To understand how server-side programming works on the web.
2. To learn use of PHP built-in functions and creating custom functions
3. To understand POST and GET in form submission.
4. To understand processing of form and submission of data.
5. To read and process data in a MySQL database.

CA 305-A Big Data

1. To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning
2. To enable the learner to identify, develop and apply detailed analytical, creative, problem solving skills.
3. To provide the learner with a comprehensive platform for career development, innovation and further study.

CA 305-B Block Chain

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

CA 306 Computer Laboratory Based on CA 302 , CA 304 and CA 305

1. To understand different methods of organising large amounts of data
2. To efficiently implement different data structure
3. To understand server side programming and database connectivity
4. To understand the concepts of XML and AJAX.
5. To be aware of web services

Semester - IV

CA 401 Networking

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

CA 402 Object Oriented Concepts Through CPP

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

CA 403 Operating System

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

CA 404 -A Advance PHP

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

CA 404-B Node - JS

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

CA 405 Project

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

CA 406 Computer Laboratory Based on CA 402, CA 404

1. To solve basic programs on class and objects
2. To understand function overloading and use the concept to solve the programs
3. To implement the theory learnt in CA 404

Semester - V

CA-501 Cyber Security

1. Have a good understanding of Cyber Security and the Tools.
2. Identify the different types of Cyber Crimes.
3. Have a good understanding of Cyber laws
4. To develop Cyber forensics awareness.
5. Identify attacks, security policies and credit card frauds in mobile and Wireless Computing Era.

CA-502 Object Oriented Software Engineering

1. Students will be able to give Design Specifications for Project
2. Students will acquire Knowledge in Basic Modeling.
3. Students will acquire Project Management Skills

CA-503 Core Java

1. To solve real world problems using OOP techniques.
2. To understand the use of abstract classes.
3. To solve problems using java collection framework and I/o classes.

4. To develop multithreaded applications with synchronization.
5. To develop applets for web applications.
6. To design GUI based application

CA-503 MongoDB

1. To work with MongoDB shell and MongoDB tools.
2. To do Schema design, Data modelling and all sorts of CRUD Operations.
3. To optimize query performance.
4. To analyze the data stored in MongoDB

CA-504 Python

1. Define and demonstrate the use of built-in data structures “lists” and “dictionary”
2. Design and implement a program to solve a real world problem.
3. Design and implement GUI application and how to handle exceptions and files.

CA-505 Project

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

CA- 506 Computer Laboratory Based on 503 and 504(2 credits each)

1. To create databases that allow embedding of documents to describe nested structures
2. Write Python functions to facilitate code reuse.
3. To develop the skill of designing Graphical user Interfaces in Python
4. To develop the ability to write database applications in Python

Semester - VI

CA-601 Recent Trends in IT

1. To discuss the basic concepts AI.
2. To apply basic, intermediate and advanced techniques to mine the data.
3. To provide an overview of the concept of Spark programming

CA-602 Software Testing

1. Students will be introduced to testing tools
2. Students will acquire Knowledge of Basic SQA.
3. Students will be able to design basic Test Cases

CA-603 Advanced Java

1. Students will know the concepts of JDBC Programming.
2. Students will know the concepts of Multithreading and Socket Programming.

3. Students will know the concepts of Spring and Hibernate.
4. Students will develop the project by using JSP and JDBC.
5. Students will develop applications in Spring and hibernate.

CA-604 Android Programming

1. Student will be able to write simple GUI applications, use built-in widgets and components, work with the database to store data locally, and much more.
2. Demonstrate their understanding of the fundamentals of Android operating systems
3. Demonstrate their skills of using Android software development tools

CA-604 Dot Net Framework

1. Use the features of Dot Net Framework along with the features of VB, C# and ASP
2. Design and develop window based and web based .NET applications.
3. Design and develop a Website. Design and Implement database connectivity using ADO.NET for VB, C# and ASP.

CA-605 Project

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

CA-606 Computer Laboratory Based on 603 and 604(2 credits each)

1. To use HTML and Server controls
2. To demonstrate database application using ADO.net
3. To create web application using JSP
4. To use JDBC and demonstrate create,update, delete records
5. To use multithreading to develop animated application