



Estd : 2007

AAER's
ASIAN COLLEGE OF SCIENCE & COMMERCE
(Affiliated to Savitribai Phule Pune University & Approved by Govt. of Maharashtra)

ACCREDITED BY NAAC WITH "B+" GRADE and Recognised Under UGC 2(f)

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(Non Aided College)

B.B.A. (Computer Application)

Program Outcome:

- Develop industry-ready human resources.
- To bring the spirit of entrepreneurship.
- To impart practical skills among students.
- Acquire practical skills and hands-on experience on emerging technologies like Java, Webdesigning, Android, Python, IoT, PHP and Data Science.
- Acquiring knowledge in basic management skills and business applications.
- Develop a sound academic base for an advanced career in Computer Applications.

Program Specific Outcome:

- Ability to correlate theory and practical knowledge in applications.
- Become employable in various public and private sectors.
- Blend analytical, logical, and managerial skills with technical aspects to resolve real-world issues.

Semester-I

Course Title: CA-101 Business Communication

Course Outcomes:

- Ability to acquire basics of communication skills.
- Understand the importance of communication and soft skills in IT.
- Ability to improve proficiency in business letter writing and overall business ethics.

Course Title: CA-102 Principle of Management

Course Outcomes:

- Gain knowledge on organizational business administration skills.
- Understand knowledge of various management principles.
- Gain proficiency in team work and team building.
- Develop managerial skills among the students.

Course Title: CA-103 C Language

Course Outcomes:

- Ability to improve logical thinking through practical knowledge of C Programming.
- Able to develop logic for writing programs using Control Structures, Arrays, and Functions.

- Able to develop small real-life applications using C.

Course Title: CA-104 Database Management System

Course Outcomes:

- Ability to obtain the basic knowledge of Database Management Systems.
- Able to gain knowledge of creation, manipulation and querying of data in databases.
- Able to normalize the database design.
- Able to develop an E-R model based on user requirements.

Course Title: CA-105 Statistics

Course Outcomes:

- Acquire knowledge of the role and importance of statistics in various business situations.
- Gain knowledge related to basic statistical techniques.
- Develop the right understanding regarding regression, correlation and data interpretation.

Course Title: CA-106 Computer Laboratory based on CA-103 and CA-104

Course Outcomes:

- Ability to develop and implement computer programs using C Language.
- Able to create and manipulate databases using SQL.
- Understand how to write, debug and execute simple programs in C.

Course Title: 107 Principles of Programming and Algorithm

Course Outcomes:

- Improve the ability of students in analytical and logical thinking.
- Students will be able to apply a systematic way of solving a specific problem using tools such as algorithms and flowcharts.
- Explore algorithmic approaches to problem-solving.

Semester-II

Course Title: CA-201 Organization Behavior and Human Resource Management

Course Outcomes:

- Ability to develop strategies for organizational change and development.
- Able to make aware students of traditional & modern methods of procurement & development in the organization.
- Able to explore the major trends in HRM & OB.

Course Title: CA-202 Financial Accounting

Course Outcomes:

- Ability to develop skills for basic accounting.
- The course will impart knowledge on transaction management and record-keeping.

- Cultivate the right approach towards classifications of different transactions and their implications.
- Develop proficiency in the preparation of basic financial and accounting statements.

Course Title: CA-203 Business Mathematics

Course Outcomes:

- Ability to analyze and interpret mathematical results.
- To understand the role and importance of Mathematics in various business situations and while developing software.

Course Title: CA-204 Relational Database

Course Outcomes:

- Able to acquire a good formal foundation on the relational model of data and usage of Relational Databases.
- Able to use advanced database Programming concepts.
- Enables the student to write PL/SQL programs that use procedure, function, package, cursor and trigger.

Course Title: CA-205 WebTechnology HTML-JavaScript-CSS

Course Outcomes:

- Ability to design more attractive Web pages using CSS.
- Ability to develop interactive websites using JavaScript.
- Understand how to develop web-based applications using JavaScript.

Course Title: CA-206 Computer Laboratory Based on204 and 205

Course Outcomes:

- Able to manage relational databases using SQL.
- Ability to write simple and nested queries using SQL.
- Ability to write PL/SQL programs that uses procedure, function, package, cursor, and trigger.
- Ability to design web pages using HTML, CSS and Javascript

Course Title: 207 Advance C

Course Outcomes:

- Develop modular programs using Functions, structures and pointers.
- Ability to develop mini projects using C.
- Able to use advanced concepts of C for writing C programs.

Semester-III

Course Title: (CA-301) Digital Marketing

Course Outcomes:

- Familiarity with working of E-Commerce and understand B-B, C-B, C-C relationship.
- Able to understand the basics of SEO (Search Engine Optimization) and better understanding between Digital and Real Marketing.
- Understanding of Digital Marketing types and gaining practical knowledge of its usage through the Internet, Social Media and Mobile, Email.
- Designing effective content for digital marketing using various Digital Marketing tools.
- Developing an effective marketing strategy using CRM.

Course Title: (CA-302) Data Structure

Course Outcomes:

- Able to understand the concepts of ADTs.
- Develop skills in the implementation and application of different types of data structures.
- To understand basic algorithms related to sorting, searching and hashing.
- To understand the concept of different memory allocation techniques.
- Apply algorithm and data structure in various real-life software problems.

Course Title: (CA-303) Software Engineering

Course Outcomes:

- Able to understand concepts of Systems and their types.
- Able to understand software engineering concepts and their applications.
- Develop the ability to gain knowledge of the SDLC process.
- Ability to understand the concept of Re-Engineering and Reverse Engineering.
- Knowledge of different types of software development models such as waterfall, spiral, and prototyping.
- Understand the concept of testing and its types.

Course Title: (CA-304) PHP

Course Outcomes:

- Ability to develop interactive data-driven dynamic websites.
- Understand how server-side programming works on the web.
- To understand Session and Cookie concept.
- To implement database connectivity.

Course Title: (CA-304) Angular JS

Course Outcomes:

- Empower students to create a web application that depends on Client-Side MVC & SPA.
- To study the use of various AngularJS Components.

- Ability to understand the concepts of Javascript and its implementation.
- Create and bind controllers with Javascript and apply the filter in the Angular JS application.

Course Title: (CA-305) Big Data

Course Outcomes:

- Able to understand the basic techniques such as R programming that form the foundations of Big Data.
- Ability to acquire knowledge in specialized aspects of big data including big data applications and big data analytics.
- To understand the building blocks of Big Data and specialized aspects of big data with the help of different big data applications.
- Explore the area of specialization in Data Science and be able to represent the analytical aspects of Big Data.
- Able to summarize data using exploratory data analysis and visualization using graphs.

Course Title: (CA-305) Blockchain

Course Outcomes:

- Understand what and why of Blockchain.
- Explore the major components of Blockchain.
- Learn about Bitcoin, Cryptocurrency and Ethereum.
- Deploy and exercise example smart contracts.
- Identify a use case for a Blockchain application.
- Create your Blockchain network application.

Semester-IV

Course Title: (CA-401) Networking

Course Outcomes:

- Obtain knowledge about Computer Network concepts.
- Gain Knowledge about working of networking models, addresses, transmission media and Connectivity devices.
- To acquire information about network security and cryptography.

Course Title: (CA-402) Object-Oriented Concepts through CPP

Course Outcomes:

- Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
- Develop programming skills using C++ features.
- Able to use various object-oriented concepts used to solve real-life problems.
- Implement different concepts of file handling and exception handling.

Course Title: (CA-403) Operating System**Course Outcomes:**

- Understand fundamental operating system abstraction such as process, semaphore, threads etc.
- To know the services provided by Operating System.
- Analyze process scheduling, CPU Scheduling, and memory management algorithms.
- To understand design issues related to file management and various related algorithms.

Course Title: (CA-404) Node - JS**Course Outcomes:**

- Understand the JavaScript and technical concepts behind Node JS.
- Structure a Node application in modules.
- Understand and use the Event Emitter, Buffers, Streams and Pipes.
- Build a Web Server in Node and understand how it works.
- Ability to understand how to connect with SQL or Mongo database in Node.

Course Title: (CA-404) Advance PHP**Course Outcomes:**

- To know & understand concepts of internet programming.
- Understand how server-side programming works on the web.
- Able to understand how to use PHP Frameworks like (Joomla / Drupal)

Course Title: (CA-407) JQuery**Course Outcomes:**

- To get hands-on experience on JavaScript and jQuery.
- Gain knowledge on how to work with binding events in JavaScript.
- To learn how to download the jQuery library refer to the Html page.
- To learn selecting, traversing the Html elements by name, attribute name, id, or by content.
- To learn how to provide effects to the elements or sections in the Html page.
- To learn manipulating elements by adding CSS classes dynamically.

Semester - V**Course Title: - : CA-501 Cyber Security****Course Outcomes:**

- Have a good understanding of Cyber Security and the Tools.
- To acquire basic information on Cyber Security and Cybercrime.
- Have a good understanding of Cyber laws.
- To develop Cyber forensics awareness.

- Identify attacks, security policies and credit card frauds in the mobile and Wireless Computing Era.

Course Title: CA-502 Object-Oriented Software Engineering

Course Outcomes:

- Able to give Design Specifications for Project.
- Acquire Knowledge in Basic Modeling.
- Ability to acquire Project Management Skills.
- Able to understand the fundamentals of object modeling
- Design different UML diagrams.
- Improve the software design with design patterns.
- To test the software against its requirements specification.

Course Title: CA-503 Core Java

Course Outcomes:

- Able to solve real-world problems using OOP techniques.
- Able to solve problems using java collection framework and I/O classes
- Develop applets for web applications.
- Design GUI-based applications.
- Ability to understand the use of file concepts.

Course Title: CA-504 MongoDB

Course Outcomes:

- Ability to work with MongoDB shell and MongoDB tools.
- Able to do Schema design, Data modeling, and all sorts of CRUD Operations.
- Able to apply various techniques to optimize query performance.
- Analyze the data stored in MongoDB.

Course Title: CA-504 Python

Course Outcomes:

- Understand the need and importance of Python language.
- Able to learn how to design and implement Python applications.
- Design and implement a program to solve a real-world problem
- Design and implement GUI application
- Gain knowledge of handling the concepts of exceptions and files.

Course Title: - 505 (DSE) Project

Course Outcomes:

- Undertake problem identification, formulation and solution.
- Understand project characteristics and various stages of project development.
- Design solutions to complex problems.

- Gain a sound technical knowledge of selected project development platforms.
- Develop and enhance coding skills.

Course Title: -506 Computer Laboratories Based on (503 and 504) (2 credits each)

Course Outcomes:

- Define and demonstrate the use of GUI Programming concepts.
- Design and implement a program to solve a real-world problem.
- Design and implement classes and methods.
- Implementation of exception handling using packages.
- Define and demonstrate web-based applet applications.

Course Title: - CA-507 Internet of Things (IoT)

Course Outcomes:

- To explain key technologies, smart objects, IoT Architecture, and security in the Internet of Things.
- To illustrate the role of IoT protocols for efficient network communication.
- To understand IoT platforms such as Arduino Uno.

Semester -VI

Course Title: - CA-601 Recent Trends in IT

Course Outcomes:

- Able to understand basic concepts of AI.
- To apply basic, intermediate and advanced techniques to mine the data.
- To provide an overview of the concept of Spark programming.

Course Title: CA-602 Software Testing

Course Outcome:

- Acquire knowledge of testing tools.
- Understand the basic concepts of SQA.
- Able to design and implement the basic Test Cases.

Course Title: - CA-603 Advanced Java

Course Outcomes:

- Able to understand the concepts of JDBC Programming, Multithreading and Socket Programming.
- Ability to understand the concepts of spring and Hibernate, JSP and JDBC.
- Develop applications in spring and hibernate.
- Design website by using JDBC and JSP.
- Develop different types of Servlet applications.

- Develop different types of distributed applications.

Course Title: - CA-604 Android Programming

Course Outcomes:

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

Course Title: - CA-604 Dot Net Framework

Course Outcomes:

- Understand the features of Dot Net Framework, VB, C#, and ASP.
- Design and develop window-based and web-based .NET applications.
- Design and develop a Website.
- Design and Implement database connectivity using ADO.NET for VB, C#, and ASP.

Course Title: - 605 (DSE) Project

Course Outcomes:

- Acquire Project development and management skills.
- Able to implement design and coding techniques.
- Students will be able to apply test cases and testing techniques in the project.

Course Title: 606 Computer Laboratory Based on 603 and 604 (2 credits each)

Course Outcomes:

- Ability to develop different types of chatting applications by using Socket programming.
- Able to develop and design different types of websites.
- Able to develop the project by using spring and Hibernate.
- To Understand Applications of widgets and components.

Course Title: - CA-607 Soft Skill

Course Outcomes:

- Understand the significance and essence of a wide range of soft skills.
- Learn how to apply soft skills in the social and professional areas.
- Learn how to implement soft skills to improve interpersonal relationships.
- Learn how to employ soft skills to enhance employability and ensure workplace and career success.