PU/PN/CS/326/2008
College Code : 878
AISHE CODE : C-41899

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)
Sr No. 28/15/16,Narhe Dhayri Road, PARI Company Chowk, Dhayari, Pune - 411041.
☎ 020-24690620, 24690610 www. asianacademypune.ac.in Email :asianacademypune@gmail.com
(Non Aided College)
Estd : 2007

Program Outcome:

M.Sc. (Computer Application)

Develop the ability to analyze a problem, identify and define the computing requirements,which may be appropriate to its solution.

- To prepare students to undertake careers involving problem-solving using computer science and technologies.
- Develop the ability to pursue advanced studies and research in computer application.
- To produce entrepreneurs who can innovate and develop a software product.
- To gain knowledge in writing reports in technical works/projects.

Program Specific Outcome:

- Inculcate employability and entrepreneur skills among students to develop customized solutions for small to large enterprises.
- To provide students the opportunity to test their interest in a particular career and to expose students to real work environment experience.
- To prepare students who will contribute to societal growth through research in their chosen field.

Semester-I

Course Title: CA-CCTP-1 Web Technology
Course Outcomes:

- Able to develop web page /website.
- Implement interactive web page(s) using HTML, CSS and JavaScript.
- Build Dynamic websites using server-side PHP Programming and Database connectivity.
- Demonstrate web application using Framework.
- Demonstrate Rich Internet Applications and the power of Ajax and XML.

Course Title: CA- CCTP-2 Advance Databases
Course Outcomes:

- Design conceptual models of a database using ER modeling for real-life applications and also construct queries in Relational Algebra.
- Formulate complex queries in SQL.
- Analyze the existing design of a database schema and apply concepts of normalization to design a database.
- Explore information regarding database security, statistical analysis, access control, and

challenges.

- Understand the Architecture of Distributed databases and parallel databases.

Course Title: CA-CCTP-3 Design and Analysis of Algorithm

Course Outcomes:

- Ability to understand mathematical formulation, complexity analysis and methodologies to solve recurrence relations for algorithms.Analyze worst-case running times of algorithms using asymptotic analysis.
- Ability to design algorithms using standard paradigms like Greedy, Divide and Conquer, Dynamic Programming, and Backtracking.
- Ability to explain the major graph algorithms and their analysis. Employ graphs to model engineering problems, when appropriate.
- Ability to understand NP class problems and formulate solutions using standard approaches.
- Ability to apply algorithm design principles to derive solutions for real-life problems and comment on the complexity of the solution.

Course Title: CA- CBOTP-1A Object-Oriented Programming with C++

Course Outcomes:

- Ability to develop simple programs using classes and objects in C++.
- Able to understand how to apply the major object-oriented concepts to implement object-oriented programs in C++.
- Able to solve real-world problems using Object Oriented Concepts.

Course Title: CA- CBOPP-1A Object Oriented Programming with C++ Laboratory

Course Outcomes:

- Able to make use of objects and classes for developing programs.
- Able to use various object-oriented concepts to solve different problems.
- Apply Object-Oriented features for program designing and implementation.
- Able to acquire the skills required for compiling, debugging, and testing programs.

Course Title: CA-CBOTP-1B ASP.NET

Course Outcomes:

- Understand the features of Dot Net Framework using C# and ASP.
- Understand the object-oriented concepts with regards to C#.
- Ability to develop a dynamic and interactive Web site.
- Acquire the knowledge of ADO .NET for database connectivity

Course Title: CA-CBOPP-1B ASP.NET Laboratory

Course Outcomes:

- Design and develop Windows, Console, and web applications.
- Develop dynamic websites using ASP. NET.
- Develop database connectivity applications using ADO.NET.

Course Title: CA-CCPP-1: Web Technology Laboratory

Course Outcomes:

- Implement dynamic web pages with validation using JavaScript objects by applying different event handling mechanisms.
- Design a basic website to demonstrate responsive web design.
- Build well-formed XML Document and implement Web Service using Framework.

- Develop simple web application using server-side PHP programming and Database Connectivity using PostgreSQL.

Semester-II

Course Title: CA- CCTP-4 Data Mining and Ware Housing
Course Outcomes:
- Design a data mart or data warehouse for any organization.
- Extract knowledge using data mining techniques.
- Adapt to new data mining tools.
- Develop a data mining application for data analysis using various tools.
- Understand the functionality of the various data mining and data warehousing component.

Course Title:- CA- CCTP-5 Operating Systems
Course Outcomes:
- Ability to understand the basics of Operating system concepts.
- Able to understand the purpose, functions, and structure of the UNIX operating system.
- Demonstrate vi editor functionalities and design shell programs.

Course Title: CA- CCTP-6 Computer Networks
Course Outcomes:
- Understand and explain Data Communications System and its components.
- Able to identify the different types of network topologies and protocols.
- Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
- Identify the different types of network devices and their functions within a network.
- Understand the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

Course Title: CA- CBOTP-2A Java Programming
Course Outcomes:
- Develop graphical user interface in Java programs.
- Ability to design and develop applets.
- Able to design User Interfaces using Swing and AWT.
- Understand the concept of packages and study how to implement them.
- Understand the use of database programming
- Able to implement web development concepts using Servlet and JSP.

Course Title: CA- CBOPP-2A Java Programming Laboratory
Course Outcomes:
- Understand how to implement Object-Oriented programming concepts using basic syntaxes of control Structures, strings, and functions for developing skills of logic building activity.
- Able to identify classes, objects, members of a class, and the relationships among them needed for finding the solution to the specific problem.
- Able to demonstrate how to achieve reusability using inheritance, interfaces, and packages and describes faster application development can be achieved.

- Able to demonstrate understanding and use of different exception handling mechanisms and concepts of multithreading for robust faster and more efficient application development.
- Able to identify and describe common abstract user interface components to design GUI in Java using Applet & AWT along with the response to events.
- Able to identify, Design & develop complex Graphical user interfaces using principal Java Swing classes based on MVC architecture.

Course Title: CA- CCPP-2 Data Mining and Ware Housing Laboratory
Course Outcomes:
- Understands data pre-processing, classification, regression, clustering, association rules, and visualization using weka tools.
- Discover interesting patterns from large amounts of data to analyze for predictions and classification
- Learn to perform various operations and apply common functions to manipulate and analyze data using R and Able to produce data visualizations.

Semester-III

Course Title: CA- CCTP-7 Mobile Application Development Using Android
Course Outcomes:-
- Gain knowledge about different mobile platforms and application development
- To know the programming using Android on IOS and Windows platform
- Able to develop the mobile app

Course Title:- CA- CCTP-8: Internet of Things (IoT)
Course Outcomes:-
- Develop small Microcontroller based IoT application
- Apply theoretical knowledge in a real-world scenario

Course Title:- CA- CCTP-9 : Artificial Intelligence
Course Outcomes:
- Able to gain a strong foundation of fundamental concepts in Artificial Intelligence
- Ability to develop the core concepts and algorithms of advanced AI
- Apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in the analysis and design of information systems.

Course Title: CA- CCTP-3A: Python Programming
Course Outcomes:
- Ability to express proficiency in the handling of strings and functions in Python.
- Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples, and sets.
- Identify the commonly used operations involving file systems and regular expressions.

Course Title: CA- CCTP-3B: Big Data

Course Outcomes:

- Able to Understand the Big Data challenges & opportunities, its applications, concepts of the map, and reduce and functional programming
- Gain a conceptual understanding of the Hadoop Distributed File System.
- Ability to solve the case studies related to real-life situations

Course Title: CA- CCTP-3C: DJango

Course Outcomes:

- Able to understand Django Architecture
- Able to design build and deploy robust Django web apps and integrate with RESTful web services.

Course Title: CA- CCPP -3: Android Laboratory

Course Outcomes:

- Able to design UI in mobile applications, Broadcast Receiver, Services, Notifications concepts in Mobile Applications.
- Able to understand different services like SMS manager, Google Map, Phone call Manger service in Android.
- Able to work with SQLite, JSON with mobile Applications.

Course Title: CA- CBOPP -3 A: Python programming Laboratory

Course Outcomes:

- Able to express tuples, sets, Dictionary, Classes, and Objects in python
- Able to identify the commonly used operations involving file systems, regular expressions, and Exceptions.
- Able to solve problems in real functional models in python.

Course Title: CA –CBOPP-3 B: Big Data Laboratory

Course Outcomes:

- Ability to understand the Big Data concepts of the map and reduce functional programming.
- Gain a conceptual understanding of the Hadoop Distributed File System.
- To solve the case studies related to real-life situations

Course Title: CA –CBOPP-3 C: Django Laboratory

Course Outcomes:

- Able to design build and deploy robust Django web apps and integrate with RESTful web services.
- Able to understand how to deal with validation, Authentication, Form classes in Django.

Semester-IV

Course Title: CA-CCUP Industrial Training/on-campus

Course Outcomes:

- On completion of the Industrial Training Period, the student will be able to apply fundamental principles of the subjects to solve real-world problems and become a master in at least one specialized area.
- Able to communicate efficiently in all aspects.
- Ability to identify, formulates, and model problems and finds solutions for the real system.