B.C.A. Part - I (Semester - I)

Course Code: CC 101 Fundamentals of Computer

Course Outcomes

1. Understand basic concepts of computer.

2. Describe peripheral devices and number systems.

3. Understand operating environment

4. Demonstrate the use of Linux Operating system commands

Course Code: CC 102 Introduction to Programming using 'C'

Course Outcomes

1. Able to implement the algorithms and draw flowcharts for solving Mathematical problem.

2. Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.

3. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling.

4. Develop confidence for self education and ability for life-long learning needed for computer language

Course Code: ACE 103 Principles of Management

Course Outcomes

1. Understand the influence of historical forces on current practice of management.

2. Understand frameworks in the four functions of management.

3. Understand leadership styles to anticipate the consequences of each leadership style

4. Be able to identify and apply appropriate management techniques for organizations

Course Code: ACE 104 Business Communication

Course Outcomes

1. Communicate in English in written as well as oral mode

2. Make presentations in English

3. Do effective business correspondence.

4. To demonstrate his/her ability to write error free while making an optimum use of correct Business Vocabulary & Grammar.

Course Code: AEC105 Office Automation

Course Outcomes

1. Understand the components of office automation

2. Perform operations using MS Word and PowerPoint

3. Surf details through Internet

4. Understand and discuss about the use of Office Package and internet in daily life

Course Code: CCL 106 Lab Course –I Based on CC102

Course Outcomes

1. Understand and trace the execution of programs written in C language.

2. Write the C code for a given algorithm

3. Implement Programs with pointers and arrays, perform pointer arithmetic and file handling.

4. Write programs that perform operations using derived data types.

Course Code: CCL 107 Lab Course-II Based on AEC 105

Course Outcomes

1. Use internet and internet tools.

2 .Perform operations using MS Word and PowerPoint

3. Create business presentations using PowerPoint

4. Understand of the role of computers in business, education and society.

B.C.A. Part - I (Semester - II)

Course Code: CC201 Database Management System

Course Outcomes

 1) Describe the basic concepts of DBMS and various databases used in real applications.

2) Demonstrate the principles behind systematic database design approaches.

3) Design the database structure by applying the concepts of Entity relational model and Normalization.

4) Learn MS-Access for database creation and handling transactions.

Course Code: CC202 Operating System

Course Outcomes

1) Possess knowledge of Operating Systems and their types.

2) Apply the concept of a process and scheduling algorithms.

3) Realize the concept of deadlock and different ways to handle it.

4) Understand various memory management techniques and file system.

Course Code: CC 203 Object Oriented Programming Using C++

Course Outcomes

1) Understand object-oriented programming and advanced C++ concept.

2) Apply the concepts of object, classes and constructor.

3) Design C++ Programs based on object, class, inheritance, abstraction, encapsulation, dynamic binding and polymorphism.

4) Implement concept of polymorphism in program

Course Code: AEC 204 Financial Accounting with Tally

Course Outcomes

1. Use basic accounting terminology, procedures and systems of maintaining accounting records.

2. Understand financial statements

3. Learn to create company, enter accounting voucher entries and also print financial statements, etc. in Tally.

4. Demonstrate MIS reports in Tally ERP.

Course Code: AEC 205 Mathematical Foundations for Computer Applications

Course Outcomes

1) Basic knowledge of set theory, functions and relations concepts, matrix needed for designing and solving problems.

2) Construct simple mathematical proofs and possess the ability to verify them.

3) Write an argument using logical notation and determine if the argument is valid or is not valid.

4) Use graph algorithms to solve problems

Course Code: CCL 206 Lab Course-III Based on CC201 and AEC 204

Course Outcomes

1) Use MS-Access DBMS and design database

2) Perform operations on data using MS access features

3) Create company using Tally ERP

4) Perform accounting using Tally ERP

Course Code: CCL 207 Lab Course-IV Based on CC 203

Course Outcomes

1) Understand the difference between the top-down and bottom-up approach

2) Describe the object-oriented programming approach in connection with C++

3) Apply the concepts of object-oriented programming

4) Illustrate the process of data file manipulations using C++

B.C.A. Part - II (Semester - III)

Course Code: CC301 RDBMS

Course Outcomes

1. Describe the fundamental elements of Relational Database Management Systems.

2. Explain various commands, sub queries & joins in MySQL with example.

3.Enhance programming skills and techniques using MySQL and PL/SQL

4.To solve database problems using MySQL and PL/SQL by using Cursors and Triggers

Course Code: CC302 Computer Network and Internet

Course Outcomes

1. Understand the concept of computer network.

2. Identify different components required to build different networks.

3. Recognize the functions of network layers and different protocols.

4. Discuss the important features of the Internet and Web.

Course Code: CC303 Data Structure using C

Course Outcomes

1. Use and implement appropriate data structure for the required problems using a
   programming language such as C.

2.Understandvarious searching & sorting techniques.

3. Implementing various data structures Stacks, Queues

4.Implementation of Linked Lists and Trees

Course Code: AEC304 Elements of Statistics

Course Outcomes

1) Represent the data in pictorial and graphical form.

2) Describe and understand the data with the help of various measures of data.

3) Analyze bivariate data.

4) Understand the concept of probability and probability distributions.

Course Code: AEC305 Human Resource Management and Materials Management

Course Outcomes

1. Understand HR Management and planning.

2. Describe process of Appraisal/training and Development.

3. Recognize integrated approach to Material Management and computer applications in Material Management.

4. Demonstrate 5 R in purchasing and Inventory control techniques.

Course Code: CCL306 Lab Course V Based CC301

Course Outcomes

1. Design database for business applications and Use of queries

2. Apply advanced SQL features and Analyze PL/SQL structures.

3. Discuss normalization techniques with simple examples.

4. Describe transaction processing and concurrency control concepts.

Course Code: CCL307 Lab Course VI based on CC303

Course Outcomes

1. Implement various data structures Like Stacks, Queues, Linked Lists.
2. Applying various searching techniques using data structure.

3. Ability to implement linear and non-linear data structure operations using C programs

4. Ability to solve problems implementing appropriate data structures

Course Code: SECSB308 Skill Development III

Course Outcomes

1. Enhance Self Understanding
2. Understand Business Etiquette and Manners

3. To develop and nurture the soft skills of the students through individual and group activities.

4. To expose students to right attitudinal and behavioral aspects and to build the same through activities

B.C.A. Part - II (Semester - IV)

Course Code: CC401 Object Oriented Programming Using C++

Course Outcomes

1) Understand object-oriented programming and advanced C++ concept.

2) Apply the concepts of object, classes and constructor.

3) Design C++ Programs based on object, class, inheritance, abstraction, encapsulation, dynamic binding and polymorphism.

4) Implement concept of polymorphism in program.

Course Code: CC402 Software Engineering

Course Outcomes

1. Understand life cycle models, requirement elicitation techniques, understand the concept of analysis and design of software.

2. Develop SRS document.

3. Use of analysis and design tools for system development.

4. Apply software engineering concepts in software development to develop quality software.

Course Code: CC403 PHP

Course Outcomes

1. Understand the basics of PHP programming language and its role in web development.

2. Implement functions and arrays in PHP to solve programming problems.

3. Design web forms using HTML and process user input using PHP.

4. Execute file uploads and perform file handling operations in PHP applications.

Course Code: AEC404 Entrepreneurship Development

Course Outcomes

1. Define characteristics, function and types of entrepreneurs and know the role of Entrepreneurship in Economic Development. They should know the importance of women entrepreneurs.
2. Identify Business Opportunities and prepare business plan
3. Know project finance agencies.
4. Understand New Opportunities and Challenges in digital entrepreneurship

Course Code: AE405 Enterprise Resource Planning (ERP)

Course Outcomes

1. Understand concept, need and significance of ERP
2. Learn different concept regarding ERP implementation
3. Understand ERP models and related technologies
4. Describe popular products and future trends in ERP.

Course Code: CCL 406 Lab Course-VII Based on CC401

Course Outcomes

1. Apply the concepts of object-oriented programming
2. Illustrating the functions, objects and process of data manipulations using C++.
3. Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming.
4. Demonstrate the use of various OOPs concepts with the help of programs.

Course Code: CCL 407 Lab Course-VIII based on CC-403

Course Outcomes

1. Acquire the ability to analyze problems, design algorithms and implement solutions using PHP.

2. Develop the ability to design and implement PHP programs that interact with user inputs, perform calculations and generate dynamic web contents.

3. Create PHP scripts capable of inserting and modifying data in a MySQL database.

4. Design web pages with the ability to retrieve and present data from a MySQL database.

Course Code: AEC408 Mini Project

Course Outcomes

1. Implement fundamental domain knowledge of core courses for developing simple business applications.

2. Utilize the software development techniques, skills and modern tools.

3. To provide students for knowledge of Electronics Components and soldering techniques and its package information for electronics circuit design.

4. Knowledge for the assembling of electronics circuit with components on PCB (Printed Circuit Board) of circuit design

B.C.A. Part - III (Semester - V)

Course Code: CC501 Java Programming

Course Outcomes

1. Understand the features of Java Language

2. Demonstrate Object-Oriented Programming using Java

3. Develop Multithreaded and Networking applications

4. Design GUI applications using AWT and Swing.

Course Code: CC502 Data Warehousing and Data Mining

Course Outcomes

1. Define the Data warehouse architecture and its Implementation.

2. Describe the Architecture of a Data Mining system.

3. Understand the various Data preprocessing Methods.

4. Perform classification and prediction of data

Course Code: CC503 IT Security

Course Outcomes

1. Understand the concept and need of IT security

2. Identify different security threats to information systems.

3. Describe security controls used for IS security.

4. Understand provisions in IT Act 2000 and Design Security policy for IT Enabled Organization.

Course Code: CC504 Python Programming

Course Outcomes

1. Acquire programming skills in core Python.

2. Develop Python programs with conditionals and loops.

3. Understand advance data types in Python Programming.

4. Develop problem solving skills and their implementation through Python.

Course Code: CC505 Digital Marketing

Course Outcomes

1. Learn the applications of Digital Marketing

2. Analyze the different digital marketing avenues.

3. Examine digital marketing tools.

4. Build real life problems in the domain of digital marketing.

Course Code: CCL 506 Lab Course IX based on CC501

Course Outcomes

1. Implement the Concept of OOP in Java through simple programs.

2. Implementation and Evaluation of concept related to class and inheritance, concept of Multiprogramming and Exception Handling.

3. Able to write programs using abstract classes.

4. Able to write multithreaded programs

Course Code: CCL 507 Lab Course-X Based on DSE504

Course Outcomes

1. Demonstrate and use different Data types in Python.

2. Apply various built looping statements and Modules provided by Python.

3. Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.

4 Identify the commonly used operations involving file systems and regular expressions.

B.C.A. Part - III (Semester - VI)

Course Code: CC 601 Cloud Computing

1. Understand the fundamental principles of Cloud Computing.

2. Understand the importance of virtualization in distributed computing and how this has enabled the development of Cloud Computing.

3. Explain the core concepts of the cloud computing paradigm: how and why this paradigm shift came about, the characteristics, advantages and challenges brought about by the various models and services in cloud computing.

4. Describe cloud computing applications

Course Code: DSE 602 Android Programming

1: Understand the building blocks of Mobile Operating Systems

2: Analyze different elements of Android Development Environment

3: Illustrate the structure of Mobile Applications using Android

4: Identify different components used in Mobile Applications using Android

Course Code: GE 603 M – Commerce

1) Understand the concepts and scope of E- Commerce.

2) Differentiate between m commerce and E-Commerce.

3) Describe M commerce applications in industry.

4) Explain security issues and control measures in M-commerce.

Course Code: AEC 604 Soft Skills & Personality Development

1. Reflect on the importance of Professional behavior.

 2. Articulate and adapt the various facets that make up one's personality.

3. Demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment.

4. Learn to balance confidence with humility and overcome problems associated with personality

Course Code: AEC 605 Industrial Visit

1. Linking existing knowledge with learning experience

2. Examining the gap between classroom theoretical training and practical learning in a real-life environment.

3. Provides an insight into the real working environment of the industry.

4. Helps them to see their future place in the working world.