Course Outcomes

Course Code –CS-101- Computer Fundamental

CO-1: Understanding the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming

CO-2: Understanding of basic computer hardware architecture and be able to design fundamental logic circuits.

CO -3: gain knowledge about five generations of computer system.

CO-4: understand the concept and need of primary and secondary memory.

Course Code –CS-102- Digital Electronic

CO-1: Understand the concept of Number System, Logic Gates, Boolean Laws, Theorems, flip flops and counter.

CO-2: Use De Morgans Theorem to simplify a negated expression.

CO-3: Create circuits to solve problems using gates to replicate all logic functions.

Course Code –CS-103- Microprocessor-I

CO- 1: Design system using memory chips and peripheral chips for 16 bit 8086 Microprocessor.

CO-2: Understand and devise techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors.

CO-3: The program prepares students to successfully compete for employment in Electronics, Manufacturing and Embedded fields.

Course Code –CS-104- C Programming-I

CO-1: Illustrate the flowchart and design an algorithm for a given problem and to develop IC programs using operators

CO -2: Exercise user defined functions to solve real time problems

CO -3: Inscribe C programs that use Pointers to access arrays, strings and functions

CO -4: Exercise files concept to show input and output of files in C

Course Code –CS- 105- Communication skill-I

CO- 1: Describe the breadth and depth of the communication studies discipline

CO -2: Effectively deliver oral presentations for various audiences and contexts

CO -3: Engage in critical thinking with regard to message analysis

Course Code –CS- 106-Mathematical Foundation

CO- 1: apply mathematical foundations to the discipline of computer science

CO - 2: analyze the complexity and computability of algorithmic solutions

B.Sc.(C.S.)F.Y.(Sem-II)

Course Code –CS- 201-Data Structure

CO- 1: Ability to analyze algorithms and a algorithm correctness.

CO-2: Students will be able to use linear and non-linear data structures like stacks, queues , linked list etc

Course Code –CS- 202- Operating System

CO- 1: To understand the services provided by and the design of an operating system.

CO -2: To understand the structure and organization of the file system.

CO -3: Students should understand the data structures and algorithms used to implement an OS.

Course Code –CS- 206- Numerical Computational Method

CO- 1: Solve an algebraic or transcendental equation using an appropriate numerical method**.**

CO -2: Perform an error analysis for a given numerical method.

CO -3: calculate a definite integral using an appropriate numerical method

B.Sc.(C.S.)S.Y.(Sem-III)

Course Code –CS- 301-Advance Data Structure

CO-1: Design and analyze programming problem statements.

CO-2: Choose appropriate data structures and algorithms, understand the ADT/libraries, and use it to design algorithms for a specific problem.

CO-3: Describe the hash function and concepts of collision and its resolution methods

Course Code –CS- 302- Unix Operating System

CO - 1: Documentation will demonstrate good organization and readability.

CO -2: Ability to read and understand specifications, scripts and programs.

CO-3: Be able to demonstrate knowledge in applying system software and tools available in modern operating system (such as threads, system calls, semaphores, etc.) for software development.

Course Code –CS- 303- Pc Maintenance

CO-1: Learn about power supplies and the skills to trouble-shoot various power-related problems.

CO-2: understand basic concept & structure of computer hardware & networking

CO-3: integrate the PCs into Local Area Network & re-install operating systems and various shipboard applications.

Course Code –CS- 304- Programming in C++

CO-1: Demonstrate a thorough understanding of modular programming by designing programs that require the use of programmer-defined functions.

CO-2: Demonstrate a thorough understanding of the object-oriented programming concepts of encapsulation, data abstraction and composition by designing and implementing classes including the use of overloaded functions and constructors.

CO -3: Demonstrate a thorough understanding of the concept of pointers and dynamic memory allocation by designing and implementing programs using pointers and dynamic memory allocation.

CO-4: Demonstrate proficiency in implementing data validation code, performing unit testing, and developing test plans while implementing robust solutions to the assignments in this course.

Course Code –CS- 305- Database Management System

CO- 1: Differentiate database systems from file systems by enumerating the features provided by database systems and describe each in both function and benefit.

CO -2: Formulate, using SQL, solutions to a broad range of query and data update problems.

CO -3: Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.

CO-4: Use an SQL interface of a multi-user relational DBMS package to create, secure, populate, maintain, and query a database.

Course Code –CS- 306- Database Management System

CO-1: How to apply discrete and continuous probability distributions to various business problems.

CO-2: demonstrate knowledge of, and a critical understanding of, statistical methodologies .

CO -3: understand and apply a range of statistical techniques based on the main theories and concepts which comprise the syllabus, including the central limit theorem

CO -4: find/calculate moments and expected values of random variables and functions of random variables; use generating functions.

B.Sc. (C.S.) S.Y.(Sem-IV)

Course Code –CS- 401- Software Engineering

CO- 1: Model the structure and behavior a software system the UML class diagrams and state diagrams.

CO -2: Design a solution to a given problem using one or more design patterns and implement the design in a programming language.

CO-3: Apply software testing and quality assurance techniques at the module level, and understand these techniques at the system and organization level.

CO -4 : Work collaboratively in a small team environment to develop a moderate-sized software system from conceptualization to completion, including requirements elicitation, system modeling, system design, implementation, unit and system testing, integration, source code management configuration management, and release management.

CO -5: Prepare technical documentations and make presentations on various aspects of a software development project, including the technical aspects (architecture, design, quality assurance) as well as the managerial aspects (planning, scheduling, and delivery).

Course Code –CS- 402- Fedora

CO- 1: to study the concept of kernel shell and file system structure.

CO- 2: understand the Linux operating system

Course Code –CS- 403- Basic of Networking

CO- 1: Importance of data networks and the Internet in supporting business communications and everyday activities

CO- 2: Communication works in data networks and the Internet

CO -3: Describe the operation of protocols at the OSI data link layer and explain how they support communications

CO -4: Analyze the operations and features of common application layer protocols such as HTTP, Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP), Simple Mail Transfer Protocol (SMTP), Telnet, and FTP.

Course Code –CS- 404- Core Java

CO- 1: Implement Object Oriented Programming Concepts

CO- 2: Use and create packages and interfaces in a Java program

CO -3: Use graphical user interface in Java programs

CO -4: Implement exception handling in Java

Course Code –CS- 405- Web fndamental

CO- 1: Select and apply markup languages for processing, identifying, and presenting of information in web pages.

CO- 2: Create and manipulate web media objects using editing software.

CO -3: Use fundamental skills to maintain web server services required to host a website.

B.Sc. (C.S.) T.Y. (Sem-V)

Course Code –CS- 501- Software Cost Estimation

CO- 1: Apply the principles and processes of software engineering project enactment.

CO- 2: Perform a comprehensive feasibility analysis.

CO -3: Execute a complete requirements negotiation process.

Course Code –CS- 502- Basic of Android O.S

CO- 1: Understand how Android™ applications work, their life cycle, manifest, Intents, and using external resources

CO- 2: Use Android's communication APIs for SMS, telephony, network management, and internet resources

CO -3: Utilize the power of background services, threads, and notifications

Course Code –CS- 503- Core Java

CO- 1: Implement Object Oriented Programming Concepts

CO- 2: Use and create packages and interfaces in a Java program

CO -3: Use graphical user interface in Java programs Create Applets

CO -4: Implement exception handling in Java

CO -5: Implement Multithreading

Course Code –CS- 504- Basic of Computer Graphics

CO- 1: Understand the structure of modern computer graphics systems

CO- 2: Understand the basic principles of implementing computer graphics primitives

CO -3: Familiarity with key algorithms for modeling and rendering graphical data

CO -4: Develop design and problem solving skills with application to computer graphics

Course Code –CS- 505- prog. With PHP

CO- 1: Understand how server-side programming works on the web.

CO- 2: PHP Basic syntax for variable types and calculations.

CO- 3: Creating conditional structures

CO- 4: Storing data in arrays
CO- 5: Using PHP built-in functions and creating custom functions
CO- 6: Understanding POST and GET in form submission.
CO- 7: How to receive and process form submission data.

B.Sc. (C.S.) T.Y(Sem-VI)

Course Code –CS- 601- Software Quality and Testing

CO- 1: Create test strategies and plans, design test cases prioritize and execute them.

CO- 2: Manage incidents and risks within a project.

CO- 3: Contribute to efficient delivery of software solute ones and implement improvements in the software development processes.

CO-4: To gain expertise in designing, implementation and development of computer based systems and IT processes.

Course Code –CS- 602- Android Application development

CO- 1: Install and configure Android application development tools.

CO- 2: Design and develop user Interfaces for the Android platform.

CO- 3: Save state information across important operating system events.

CO- 4: Apply Java programming concepts to Android application development.

Course Code –CS- 603- Theory Of Computation

CO-1: Master regular languages and finite automata.

CO-2: Master Context-free languages, push-down automata, and Turing recognizable languages.

CO-3: Be exposed to a broad overview of the theoretical foundations of computer science.

CO-4: Be familiar with thinking analytically and intuitively for problem- solving situations in related areas of theory in computer science.

Course Code –CS- 607-e-Commerce

CO-1: Demonstrate an understanding of the foundations and importance of E-commerce

CO-2: Analyze the impact of E-commerce on business models and strategy

CO-3: Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational.

CO-4: describe the key features of Internet, Intranets and Extranets and explain how they relate to each other.

Course Code –CS- 608- Ethics And Cyber Law

CO-1: Students identify and analyze statutory, regulatory, constitutional, and organizational laws that affect the information technology professional.

CO-2: Evaluate how doing business on the Internet may subject you and your company to the laws, regulatory agencies, and judicial systems of multiple states and/or foreign countries.

Course Code –CS- 610- Major Project

CO-1: formulate a research project complete with aims and goals

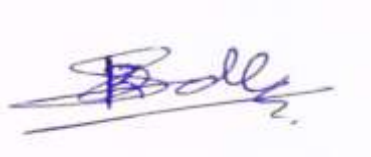
CO-2: conduct a thorough literature survey for research project and write a report

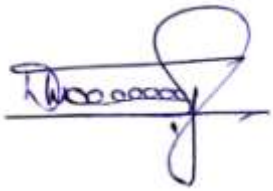
CO-3: identify major problems and obstacles to be overcome in completing project

CO-4: Longitudinal view of the student experience from 1st to final year including key decision-making episodes

CO-5: Dissemination activities including conferences, papers and final report

CO-6: Integrated data set related to retention and methodology for continued analysis





Head

Principal