**DEPARTMENT OF COMPUTER SCIENCE**

**SRI Y N COLLEGE (AUTONOMOUS): NARSAPUR**

**Course outcomes**

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| **Semester** | **Course Code** | **Course Name** | **Course Outcomes** |
| I | Paper-I | PROBLEM SOLVING IN C | * Understand the evolution and functionality of a Digital Computer. * Apply logical skills to analyse a given problem * Develop an algorithm for solving a given problem. * Understand ‘C’ language constructs like Iterative statements, Array processing, Pointers. * Apply ‘C’ language constructs to the algorithms to write a ‘C’ language program. |
| II | Paper-II | DATA STRUCTURES USING C | * Understand available Data Structures for data storage and processing. * Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph * Choose a suitable Data Structures for an application * Develop ability to implement different Sorting and Search methods * Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal * Design and develop programs using various data structures * Implement the applications of algorithms for sorting, pattern matching etc |
| III | Paper-III | Database Management System | * Gain knowledge of Database and DBMS. * Understand the fundamental concepts of DBMS with special emphasis on relational data model. * Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database * Model data base using ER Diagrams and design database schemas based on the model. * Create a small database using SQL. * Store, Retrieve data in database. |
| **Semester** | **Course Code** | **Course Name** | **Course Outcomes** |
| IV | Paper-IV | OBJECT ORIENTED PROGRAMMING USING JAVA | * Understand the benefits of a well-structured program * Understand different computer programming paradigms * Understand underlying principles of Object-Oriented Programming in Java * Develop problem-solving and programming skills using OOP concepts * Develop the ability to solve real-world problems through software development in high-level programming language like Java |
| IV | Paper-V | OPERATING SYSTEMS | * Know Computer system resources and the role of operating system in resource management with algorithms * Understand Operating System Architectural design and its services. * Gain knowledge of various types of operating systems including UNIX and Android. * Understand various process management concepts including scheduling, synchronization, and deadlocks. * Have a basic knowledge about multithreading. * Comprehend different approaches for memory management. * Understand and identify potential threats to operating systems and the security features design to guard against them. * Specify objectives of modern operating systems and describe how operating systems have evolved over time. * Describe the functions of a contemporary operating system |
| V | Paper-V | Database Management Systems | * Student knows database structure and its design * Students are able to understand Different data models used for database design * Students are able to understand database transactions and data recovery * Students can use DML,DDL,DCL commands to manipulate data in the database |
| **Semester** | **Course Code** | **Course Name** | **Course Outcomes** |
| V | Paper-VI | Software Engineering | **CO-1**.Ability to gather and specify requirements of the software projects.  **CO-2**.Ability to analyse software requirements with existing tools  **CO-3**.Able to differentiate different testing methodologies and apply the basic project management practices in real life projects  **CO-4**.Ability to work in a team as well as independently on software projects |
| 7 | Elective-I  Paper-VII | Web Technologies | **CO-1**. To understand the web architecture and web services.  **CO-2**. To practice latest web technologies and tools by conducting experiments.  **CO-3**. To design interactive web pages using HTML and Style sheets.  **CO-4**. To study the framework and building blocks of .NET Integrated Development Environment.  **CO-5**. To provide solutions by identifying and formulating IT related problems. |
| 8 | Elective-II  Paper-VIII  (Cluster-B) | Distributed Systems | **CO-1.** To Create models for distributed systems.  **CO-2.** To Apply different techniques learned in the distributed system.  **CO-3.** Students will get the concepts of Inter-process communication  **CO-4.** Students will get the concepts of Distributed Mutual Exclusion and Distributed Deadlock Detection algorithm. |
| 9 | Elective-II  Paper-IX  (Cluster-B) | Cloud Computing | **CO-1.** To Compare the strengths and limitations of cloud computing.  **CO-2.** To Identify the architecture, infrastructure and delivery models of cloud computing.  **CO-3.** To Apply suitable virtualization concept.  **CO-4.** To Choose the appropriate cloud player, Programming Models and approach.  **CO-5.** To Address the core issues of cloud computing such as security, privacy and interoperability.  **CO-6.** To Design Cloud Services and Set a private cloud. |
| I | Life Skill Course | Basic Computer Applications | * Demonstrate basic understanding of computer hardware and software. * Apply skills and concepts for basic use of a computer. * Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations. * Create personal, academic and business documents using MS office. * Create spreadsheets, charts and presentations. * Analyze data using charts and spread sheets. |