

**PROGRAM OUTCOMES**

- **To train the students to get successfully employed in the computing profession or will be actively pursuing advanced degrees in computing or a related discipline.**
- **To give the students confidence of thorough grounding in the principles and practices of computing, and be properly prepared to engage in further learning.**
- **To make the students have an understanding of social and ethical issues relating to computer science and information technology, enabling them to be responsible members of their profession and informed citizens.**
- **To develop the abilities of the students in applying their knowledge and skills to succeed in their careers and/or obtain advanced degrees.**
- **To train the students to behave ethically and responsibly, and remain informed and involved as full participants in their profession and society.**
- **To give knowledge to the students to apply principles and practices of computing grounded in mathematics and science.**
- **To encourage and motivate students to successfully complete software-related projects to meet customer business objectives and/or productively engage in research.**

**COURSE OUTCOMES:**

SNO	SEMESTER-1	COURSEOUTCOMES:
S.no	Semester	Outcomes
1	<p align="center"><b><u>SEMESTER-II</u></b></p> <p><b><u>Course:3</u></b></p> <p><b>Problem solving in C</b></p>	<p><b><u>Course Outcomes</u></b></p> <p><b>CO1.</b> Understand the working of a digital computer and Fundamental constructs of Programming</p> <p><b>CO2.</b> Analyze and develop a solution to a given problem with suitable control structures</p> <p><b>CO3.</b> Apply the derived data types in program solutions</p> <p><b>CO4.</b> Use the ‘C’ language constructs in the right way</p> <p><b>CO5.</b> Apply the Dynamic Memory Management for effective memory utilization</p> <p><b><u>Course Outcomes</u></b></p>
2	<p><b><u>Course:4</u></b></p> <p><b>Digital Logic Design</b></p>	<p><b>CO1.</b> Understand how to Convert numbers from one radix to another radix and perform arithmetic operations</p> <p><b>CO2.</b> Simplify Boolean functions using Boolean algebra and k- maps</p> <p><b>CO3.</b> Design adders and subtractors circuits</p> <p><b>CO4.</b> Design combinational logic circuits such as decoders, encoders, multiplexers and demultiplexers.</p> <p><b>CO5.</b> Use flip flops to design registers and counters.</p>

3	<p><b><u>SEMESTER-III</u></b></p> <p><b><u>Course:5</u></b></p> <p><b>Object Oriented Programming using Java</b></p>	<p><b><u>Course Outcomes:</u></b></p> <p><b>CO1.</b> Understand the basic concepts of Object-Oriented Programming and Java Program Constructs</p> <p><b>CO2.</b> Implement classes and objects and analyze Inheritance and Dynamic Method Dispatch</p> <p><b>CO3.</b> Demonstrate various classes in different packages and can design own packages</p> <p><b>CO4.</b> Manage Exceptions and Apply Threads</p> <p><b>CO5.</b> Create GUI screens along with event handling</p>
4	<p><b><u>Course: 6</u></b></p> <p><b>Data Structures</b></p>	<p><b><u>Course Outcomes:</u></b></p> <p><b>CO1.</b> Understand various Data Structures for data storage and processing.</p> <p><b>CO2.</b> Realize Linked List Data Structure for various operations</p> <p><b>CO3.</b> Analyze step by step and develop algorithms to solve real world problems by implementing Stacks, Queues data structures.</p> <p><b>CO4.</b> Understand and implement various searching &amp; sorting techniques.</p> <p><b>CO5.</b> Understand the Non-Linear Data Structures such as Binary Trees and Graphs</p>
5	<p><b><u>Course: 7</u></b></p> <p><b>Computer Organization</b></p>	<p><b><u>Course Outcomes:</u></b></p> <p><b>CO1.</b>Identify different types of instructions</p> <p><b>CO2.</b> Differentiate between micro-programmed and hard-wired control units.</p> <p><b>CO3.</b>Analyse the performance of hierarchical organization of memory.</p> <p><b>CO4.</b> Summarize different data transfer techniques.</p> <p><b>CO5.</b>Demonstrate arithmetic operations on fixed- and floating-point numbers and illustrate concepts of parallel processing.</p>
6	<p><b><u>Course: 8</u></b></p> <p><b>Operating System</b></p>	<p><b><u>Course Outcomes:</u></b></p> <p><b>CO1.</b> Demonstrate knowledge and comprehension of operating system functions.</p>

		<p><b>CO2.</b> Analyze different process scheduling algorithms and apply them to manage processes and threads effectively</p> <p><b>CO3.</b> Create strategies to prevent, detect, and recover from deadlocks, and design solutions for inter-process communication and synchronization problems.</p> <p><b>CO4.</b> Compare and contrast different memory allocation strategies and evaluate their effectiveness</p> <p><b>CO5.</b> Evaluate disk scheduling algorithms while implementing OS security measures</p>
	<b><u>SEMESTER-IV</u></b>	<b><u>Course Outcomes:</u></b>
7	<b><u>Course:9</u></b> <b>Database Management System</b>	<p><b>CO1.</b> Differentiate between database systems and file based systems</p> <p><b>CO2.</b> Design a database using ER model</p> <p><b>CO3.</b> Use relational model in database design</p> <p><b>CO4.</b> Use SQL commands for creating and manipulating data stored in databases.</p> <p><b>CO5.</b> Write PL/SQL programs to work with databases.</p>
8	<b><u>Course:10</u></b> <b>Object Oriented Software Engineering</b>	<p><b><u>Course Outcomes:</u></b></p> <p><b>CO1.</b> Understand and apply the fundamental principles of Object-Oriented Programming (OOP) concepts and Unified Modeling Language (UML) basics, in the development of software solutions.</p> <p><b>CO2.</b> Analyze and specify software requirements, develop use cases and scenarios, apply object oriented analysis and design (OOAD) principles</p> <p><b>CO3.</b> Familiar with the concept of test-driven development (TDD) and its practical implementation</p> <p><b>CO4.</b> Analyze and Evaluate Software Maintenance and Evolution Strategies</p> <p><b>CO5.</b> Apply Advanced Object-Oriented Software Engineering Concepts</p>
9	<b><u>Course:11</u></b> <b>Data Communication</b>	<p><b><u>Course Outcomes:</u></b></p> <p><b>CO1.</b> Understand and apply network applications, hardware, software, and reference models for network communication.</p> <p><b>CO2.</b> Design and analyze data link layer protocols, multiple access</p>

	<b>and Computer Networks</b>	protocols, and wireless LAN technologies. <b>CO3.</b> Design routing algorithms, congestion control algorithms, and evaluate network layer protocols for internetworking. <b>CO4.</b> Analyze transport service, transport protocols, and evaluate UDP and TCP in the internet. <b>CO5.</b> Understand and evaluate application layer protocols, including DNS, email, WWW, and network management protocols.
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<b>10</b>	<b><u>Course:12</u></b> <b>Web Interface</b> <b>Designing</b> <b>Technologies</b>	<b><u>Course Outcomes:</u></b> <b>CO1</b> · Analyze a web page and identify its elements and attributes. <b>CO2</b> · Create web pages using XHTML and Cascading Style Sheets. <b>CO3</b> · Build dynamic web pages using JavaScript (Client side programming). <b>CO4</b> · Create XML documents and Schemas.
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