

Department Computer Science
Course Specific Outcome

| Semester | Paper /Course | Name of the Paper/Corse | Course Outcome |
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| Semester-1 | CC-1 | Programming using C | To learn basics of C programming language. • To be able to develop logics to create programs/ applications in C. |
| | CC-2 | Digital Logic | To understand different methods used for the simplification of Boolean functions and binary arithmetic. • To design and implement combinational circuits, synchronous & asynchronous sequential circuits. • To study in detail about Semiconductor Memory Systems. |
| | GE | | |
| Semester-2 | CC-3 | Programming using C++ | To know about the Object Oriented Programming concepts. • To learn basics of C++ programming language. • To be able to develop logics to create programs/ applications in C++. |
| | CC-4 | Data Structures | To learn how the choice of data structures impacts the performance of programs. • To study specific data structures such as arrays, linear lists, stacks, queues, hash tables, binary trees, binary search trees, heaps and AVL trees. • To learn efficient searching and sorting techniques. |
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| Semester-3 | CC-5 | JAVA Programming | To learn the fundamentals of Object Oriented Programming in Java environment. • To learn the use of Java language and the Java Virtual Machine. • To write simple Java programming applications. |
| | CC-6 | Database Systems | To learn the fundamental elements of database system. |

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| | | | <ul style="list-style-type: none"> • To learn the basic concepts of relational database management systems. • To learn various SQL commands. |
| | CC-7 | Discrete Mathematical Structures | To learn the mathematical foundations for Computer Science. Topics covered essential for understanding various courses. |
| | SEC-1 | Python Programming | To enable the students to understand the basic principles of the Python Language. To use the tools to do simple programs in python. |
| Semester-4 | CC-8 | Operating Systems | <p>To understand Operating system structure and services.</p> <ul style="list-style-type: none"> • To understand the concept of a Process, memory, storage and I/O management. |
| | CC-9 | Computer Networks | <p>To learn how do computers and terminals actually communicate with each other.</p> <ul style="list-style-type: none"> • To understand the parts of a communication network and how they work together. |
| | CC-10 | Computer Graphics | <p>To be able to learn the core concepts of Computer Graphics.</p> <ul style="list-style-type: none"> • To be able to create effective programs for solving graphics problems. |
| | SEC-2 | Data Analysis and computer Application | <p>To learn the fundamentals of computer.</p> <p>To learn basic computer application.</p> |
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| Semester-5 | CC-11 | Web Technology | <p>To learn the fundamentals of web designing.</p> <ul style="list-style-type: none"> • To design and develop standard and interactive web pages. To learn some popular web scripting languages. |
| | CC-12 | Software Engineering | <p>To learn the way of developing software with high quality and the relevant techniques.</p> <ul style="list-style-type: none"> • To introduce software engineering principles for industry standard. |
| | DSE-1 | Numerical Techniques | <p>To learn various numerical techniques.</p> <ul style="list-style-type: none"> • To be able to implement different numerical techniques using programming language. |
| | DSE-2 | Shell Programming | <p>To learn the basics of UNIX OS, UNIX commands and File system.</p> <ul style="list-style-type: none"> • To familiarize students with the Linux environment. |

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| | | | <ul style="list-style-type: none"> • To learn fundamentals of shell scripting and shell programming. To be able to write simple programs using UNIX. |
| Semester-6 | CC-13 | Artificial Intelligence | <p>To learn the basic concepts of AI principles and approaches.</p> <ul style="list-style-type: none"> • To develop the basic understanding of the building blocks of AI. |
| | CC-14 | Algorithm Design Techniques | To be able to learn design principles and concepts of algorithms. To have a mathematical foundation in analysis of algorithm. |
| | DSE-3 | Data Science | <p>To learn emerging issues related to various fields of data science.</p> <ul style="list-style-type: none"> • To understand the underlying principles of data science, exploring data analysis. • To learn the basics of R Programming. |
| | DSE-4 | PROJECT WORK | To learn on a specific project as well as specific environment for better career opportunities. |