

DEPARTMENT OF COMPUTER ENGINEERING AND TECHNOLOGY
Schedule for Value Added Course on "Integrated Programming Paradigms"
from
October 11th – November 1st, 2025

| Week# | 9:10AM – 11:10 AM (Theory) | 11:15 AM – 1:15 PM (Theory) | 1:45 PM – 4:15 PM (Lab Practical) |
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| Week 1 | Basics of C: Data types, Tokens, Identifiers, Operators | Loop Control Statements (For, While, Do-While) & Control Structures, Precedence & Associativity of Operators, Type Conversions | Lab practice for all Week1 concepts |
| Week 2 | Functions (User-defined, Standard, Inter-function Communication), Arrays & Strings: Operations, Arrays of Strings (2D Char Arrays) | Pointers, Structures, accessing members, Unions | Lab practice for all Week2 concepts |
| Week 3 | Introduction to C++: OOP Principles, Classes, Constructors/Destructors, Inheritance in C++: Types & Examples | Interfaces, Abstract Classes Polymorphism Concepts | Lab practice for all Week3 concepts |
| Week 4 | Introduction to data structures, Searching and sorting techniques: Linear Search, Binary Search Selection Sort, Insertion Sort | Merge-Sort, Quick-Sort, Bucket-Sort and Radix-Sort Comparing Sorting Algorithms | Lab practice for all Week4 concepts |

Faculty Coordinators:

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