

Module No.    Module Name

- 1 Introduction to Programming & Basics
- 2 Control Structures
- 3 Functions and Modular Programming
- 4 Data Structures and Algorithms
- 5 File Handling and Advanced Topics

#### Topics Covered

History of Programming, Programming Paradigms, Introduction to Python/C/Java, Basic Syntax, Variables, Data Types, O  
Conditional Statements (if-else, switch-case), Loops (for, while, do-while), Nested Control Structures  
Functions, Recursion, Scope & Lifetime of Variables, Function Overloading, Lambda Functions  
Lists, Arrays, Strings, Dictionaries, Stacks, Queues, Sorting & Searching Algorithms  
File I/O, Exception Handling, Introduction to Object-Oriented Programming Concepts

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CO Mapping

CO1

CO2

CO3

CO4

CO5