



AMA COMPUTER ACADEMY

C SHARP (C#)



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OCOC C Sharp (C#)

Objectives of the Course:

1. Classify the fundamental features and syntax of the C# programming language.
2. Describe the integrated development environments (IDEs) used for C# development.
3. Classify different data types and control structures in C#.
4. Diagnose common errors and debugging techniques in C# programs.
5. Predict the outcomes of C# code snippets and their execution.
6. Demonstrate object-oriented programming concepts in C#.
7. Identify the use of C# in developing web and mobile applications.

Outcomes of the Course:

1. Interpret the basic syntax and structure of C# programs.
2. Illustrate the process of setting up a C# development environment.
3. Paraphrase the various data types and control structures in C#.
4. Construct C# programs that solve simple to complex problems.
5. Combine object-oriented programming principles to create reusable C# code.
6. Solve common programming errors and debug C# applications effectively.
7. Design basic web and mobile applications using C# and relevant frameworks.

Course Introduction:

The iLike Certificate in C# course is designed to provide a comprehensive understanding of C# programming. Covering fundamental to advanced topics, this course includes data types, control structures, object-oriented programming concepts, and the use of C# in web and mobile applications. With a blend of theoretical knowledge and practical skills, students will learn to construct, debug, and optimize C# programs, preparing them for real-world development challenges.

Course Syllabus:

Topic	Sub-Topics
Introduction to C# Language	Overview of C#
	Framework Architecture
C# Fundamentals	C# Identifiers
	C# Datatypes
	C# Variables
	C# Literals
Operators	C# Operators
Keywords	C# Keywords
Control Statements	Decision Making Statements
	Switch Statements
	Jump Statements
Loops	Loops
Oop Concept - Class, Object	Class and Object
Oop Concept - Constructors, Destructors and Abstraction	Constructors & Destructor
	Abstraction
Oop Concept – Inheritance	Inheritance
Oop Concept - Encapsulation & Type Conversion	Encapsulation
	Type Conversion
Oop Concept – Polymorphism	Polymorphism
Functions	Functions
Methods and Method Parameters	Method Definition
	Method Parameters
Method Overloading	Method Overloading
Methods Overriding and Anonymous Methods	Method Overriding
	Anonymous Methods
Arrays	Arrays
Jagged Arrays	Jagged Arrays
Array Class and Sorting of Array	Array Class
	Ranking of Array
	Sorting of Array
Array List	Array List
	Array List Class
Strings Part	Strings
	Strings Literal
String Class and String Builder	String Class
	String Builder

	String Vs String Builder
Tuples	Tuples
	Tuple Class
Value Tuples and Struct	Value Tuple
	Value Tuple Struct
Indexers and Properties	Indexers
	Multidimensional Indexers
	Overloading of Indexers
	Properties
	Restriction on Properties
	Stacks
Stack	Stack
Queue	Queue
Collections	Collections
Collection Class	Collection Class
Generics Class	Generics Class
List implementation	List implementation
Sorted List	Sorted List
Hash Set	Hash Set
Sorted Set	Sorted Set
Dictionary	Dictionary
Sorted Dictionary and hash Table.	x
	Hash Table
Linked List	Linked List
Doubly LinkedList	Doubly LinkedList
Circular LinkedList	Circular LinkedList
Namespaces, Static Keywords	Namespaces
	Static keywords
Attributes and Events	Attributes
	Events
BitArray Collection	BitArray Collection
Structures & Unsafe Code	Structure
	Unsafe Code
Interfaces, Synchronization and	Interface
	Synchronization
Serialization & Enums	Serialization
	Enums
File Handling & Regular Expressions	File Handling
	Regular Expressions
Reflection and Nullables	Reflection
	Nullables
Multithreading & Properties	Multithreading
	Properties

Exception Handling	Exception Handling
Preprocessor Directives	Preprocessor Directives
Delegates and Datetime Functions	Delegate
	Datetime
Webservice and Design Patterns	Web Services
	Design Patterns
Tree Structure	Tree Structure - Binary Tree
	Tree Structure – DFS
Graph Structure	Graph Structure



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