BASICS OF C#

COURSE CODE: MOOCCSE-A02 **DURATION: 8 Weeks.**

Course Prerequisites:

You should know how to use a computer at a basic level.

Learning Outcomes:

1. The fundamentals of C#
2. Control Flow: Decision making statements & Conditional Statements
3. Conditional Statements
4. Methods and Classes
5. Arrays & List
6. Different Methods of String & String Builder
7. DateTime & TimeSpan

Course Description:

This course is designed for the complete beginners to C# Programming. This course aims to teach programming at a steady pace which will help you to gasp complex C# topics in a simple way.

COURSE DETAILS

MODULE 1: (Introduction to C#)

TOPIC 1: (Introduction)

Lecture 1.1: (Introduction to .Net & C#)
Lecture 1.2: (Architecture of .net)
Lecture 1.3: (Getting Visual Studio)
Lecture 1.4: (Creating First Application)

MODULE 2: (C# Basics)

TOPIC 1: (Introduction C# Basics)

Lecture 1.1: (Variables)
Lecture 1.2: (Identifiers and Keyword)
Lecture 1.3: (Data Types)
Lecture 1.4: (Type Casting)
Lecture 1.5: (User Inputs)
Lecture 1.6: (Introduction to Operators)
Lecture 1.7: (Arithmetic Operators)
Lecture 1.8: (Assignment Operators)
Lecture 1.9: (Comparison Operators)
Lecture 1.10: (Logical Operators)
Lecture 1.11: (Comments)

MODULE 3: (Conditional Statements)

TOPIC 1: (Introduction of Conditional Statements)

Lecture 1.1: (If Statement)
Lecture 1.2: (If Else Statement)

Lecture 1.3: (If Else If Statement)
Lecture 1.4: (Nested If Statement)
Lecture 1.5: (Switch Statement)
Lecture 1.6: (Ternary Operator)

MODULE 4: (Iterative Statements)

TOPIC 1: (Introduction of Iterative Statements)

Lecture 1.1: (For Loop)
Lecture 1.2: (While Loop)
Lecture 1.3: (Do While Loop)
Lecture 1.4: (For Each Loop)
Lecture 1.5: (Goto Statement)
Lecture 1.6: (Continue Statement)

MODULE 5: (Methods and Classes)

TOPIC 1: (Introduction of Methods and Classes)

Lecture 1.1: (Introduction to Methods)
Lecture 1.2: (Call by Value)
Lecture 1.3: (Call by Reference)
Lecture 1.4: (Out Parameter)
Lecture 1.5: (Classes)
Lecture 1.6: (Constructors)
Lecture 1.7: (This Keyword)
Lecture 1.8: (Static Keyword)

MODULE 6: (Arrays & List)

TOPIC 1: (Introduction of Arrays & List)

Lecture 1.1: (Arrays)
Lecture 1.2: (Multi-dimensional Array)
Lecture 1.3: (Jagged Array)
Lecture 1.4: (Passing Array to a function)
Lecture 1.5: (Array Class)
Lecture 1.6: (List)

MODULE 7: (Strings)

TOPIC 1: (Introduction of Strings)

Lecture 1.1: (What is String?)
Lecture 1.2: (String Methods: Length, Concate & Join)
Lecture 1.3: (String Methods: Split & SubString)
Lecture 1.4: (String Methods: StartsWith & EndWith)
Lecture 1.5: (String Methods: Contains, Replace & Trim)
Lecture 1.6: (Comparing Two Strings)
Lecture 1.7: (String Escape Sequence)
Lecture 1.8: (String Builder)

MODULE 8: (Working with Date and Time)

TOPIC 1: (Introduction of Working with Date and Time)

Lecture 1.1: (DateTime)
Lecture 1.2: (TimeSpan)