**Section 1 - Getting Started**

* C# Fundamentals
	+ Namespaces, Input and Output
	+ Operators and Control Constructs
	+ Value data types, Arrays, and References
* Method Parameters
	+ Using params
	+ Using ref
	+ Using out

**Section 2 - Classes and Objects**

* Class Design
	+ Fields, Properties, Accessors
	+ Constructors, Destructors, this keyword
	+ Method Overloading
	+ Static Fields and Methods
* Inheritance
	+ Polymorphism with virtual and override
	+ Using base with Constructors and Methods
* Classes and Structs
	+ Abstract Classes and Methods
	+ Sealed Classes
	+ The Object Class
	+ Boxing and Unboxing
	+ Creating and Using Structs

**Section 3 - Working with Objects**

* Exception Handling
	+ try, catch, throw, finally
	+ Exception Objects
* Interfaces
	+ Implementing and Extending Interfaces
	+ The is and as Operators
	+ Interfaces vs. Abstract Classes
	+ Qualified Interfaces
* Resource Management

**Section 4 - Delegates and Events**

* Delegates
	+ The delegate keyword
	+ Assigning Methods to Delegates
	+ Anonymous Methods, Lambda Expressions
* Events
	+ The event keyword
	+ Publish-Subscribe Pattern
	+ Event Properties and Handlers
* Callbacks
	+ Using AsyncCallback and IAsyncResult
* Standard Events
	+ Using EventHandler and EventArgs

**Section 5 - Windows Programming in C#**

* Windows Forms
* Controls and Components
	+ Label, Button, TextBox, CheckBox
	+ ComboBox, RadioButtons, ListBox
	+ DateTimePicker, ImageList, Panel
	+ FlowLayoutPanel and TableLayoutPanel
* Window Applications
	+ Window Events
	+ MenuBars, MenuItems, Status Bars

**Section 6 - Threads**

* The Thread Class
* Starting Threads, Thread Priorities
* Timer Threads
* Interlocked, Monitor, and lock()

**Section 7 - Generics and Collections**

* Generics
	+ Generic Methods and Classes
	+ Generic Delegates
* Collections
	+ Indexers
	+ Stack and Queue
	+ ArrayList, List, LinkedList
	+ Dictionary

**Section 8 - File I/O and Streams**

* File and Directory Management
* Reading and Writing Text Files
* Reading and Writing Binary Files

**Section 9 Using Layouts, CSS and JavaScript in ASP.NET Core MVC**

* Using Layouts
* Using CSS and JavaScript
* Using jQuery
* Lab : Using Layouts, CSS and JavaScript in ASP.NET Core

**Section 10 Data access from (ADO) and (Entity Framework)**