

C# Syllabus

MS.NET Framework Introduction

154 mins

• Everything About Microsoft .Net Framework	54 mins
• Framework Types Of Application	30 mins
• Framework Base Class Library	25 mins
• Framework MSIL and PE	20 mins
• Framework-CLR	25 mins

VS.NET and Entry Point Method - Main

104 mins

• Visual Studio Overview and Installation	20 mins
• First .Net Application	30 mins
• Command Line Arguments	20 mins
• Return Value of Main	12 mins
• Resolve Main Ambiguity	10 mins
• Using Command Line Compiler	12 mins

C# Language Syntax

416 mins

• C# Introduction and Evolution	16 mins
• Data Type Value Type and Reference	36 mins
• Implicit and Explicit Casting	36 mins
• String and String Builder	36 mins
• Object Boxing & Unboxing	30 mins
• Constant and Enum	20 mins
• Operators	25 mins
• Control Statement	40 mins
• Working with Arrays	50 mins
• Multi-Dimensional Arrays	45 mins
• Working with Methods	46 mins
• How to become an Extraordinary Programmer	36 mins

OOPs - Concepts

84 mins

• Object Oriented Programming Concept	84 mins
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OOPs - Programming Encapsulation

230 mins

• Writing Class And Initializing Objects	50 mins
• Destroying Objects and Role Of Garbage Collection	40 mins
• Writing Methods in Classes	25 mins
• Working with Properties in Class	25 mins
• Constructor and Destructor	35 mins
• Static Members	55 mins

OOPs - Inheritance **150 mins**

- Protected Keyword And Constructors In Inheritance 30 mins
 - Casting Between Reference Types 35 mins
 - Static And Dynamic Binding 40 mins
 - Abstract Class And Methods 25 mins
 - Object Class As Parent 20 mins
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OOPs - Interface & Polymorphism **65 mins**

- Polymorphism And Syntax Of Interface 25 mins
 - Explicit Implementation And Casting 25 mins
 - Types Of Interface 15 mins
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Collections and Generics **157 mins**

- Introduction To Collection Of Classes 50 mins
 - IEnumerable, IComparable And IComparer Interface 25 mins
 - Writing Generic Classes And Methods 50 mins
 - Generic Collection Classes 32 mins
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Assemblies and GAC **100 mins**

- Assemblies Introduction And Working With Class Library 60 mins
 - Shared Assemblies And GAC 40 mins
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Exception Handling **95 mins**

- What Exception And Behavior Of Try And Catch Blocks 50 mins
 - Throw And Finally Keywords 25 mins
 - Writing Custom Exception 20 mins
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IO Streams **185 mins**

- What Is Streams And Types Of Streams 30 mins
 - Standard IO Streams 30 mins
 - Dealing With FileStreams 55 mins
 - Binary Reader And Binary Writer 25 mins
 - Working With File System 15 mins
 - Serialization And Deserialization 30 mins
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Unsafe Code **35 mins**

- Unsafe Code 35 mins
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Reflection And Attributes **110 mins**

- Reflection 25 mins

• Reflection And Attributes	35 mins
• Pre-Defined Attributes	25 mins
• Custom Attributes	25 mins

More On Classes **110 mins**

• Operator Overloading	25 mins
• Partial Classes And Methods	20 mins
• Extention Methods	20 mins
• Anonymous Types And Tuple	30 mins
• App.Config Configuration File	15 mins

Developing GUI Application Using WinForms **530 mins**

• WinForms Working With Controls	65 mins
• WinForm Working With Controls	65 mins
• Container Control	18 mins
• Graphics And GDI Objects	50 mins
• Interactive Drawing Examples	26 mins
• Menu Strip, Context Menu Strip, Tool Strip And Status Strip	37 mins
• Model Dialog And Notepad Application	45 mins
• Modeless Dialog Box	21 mins
• MDI Interface	24 mins
• Form Inheritance	10 mins
• Adding Login Facility To Application	15 mins
• Working With Resources And Settings	26 mins
• Notify Icon For Adding Form To System	10 mins
• Components Timer Background Worker File System Watcher And Process	40 mins
• Drag And Drop	18 mins
• Tree View And List View	60 mins

Database Programming Using ADO.NET **386 mins**

• ADO.NET Evolution And Role Of Managed Providers	40 mins
• Installing SQL Server And Management Studio	10 mins
• Establishing Connction With Database And Connection Pooling	45 mins
• Executing Insert, Update And Delete Commands	35 mins
• Fetching Data Using Select Command	30 mins
• How to Implement Login in Application	17 mins
• Multiple Active Resultsets	18 mins
• Parameterialized Prepared Statements	50 mins
• Executing Stored Procedures	32 mins
• Managing Database Transaction And DTC	39 mins

• Asynchronous Execution Of SQL Commands	21 mins
• Writing Managed Provider Independent Code	20 mins
• Writing Utility Class With Common Code	16 mins
• Summary And API Used	13 mins

Managing Data Using DataSet **271 mins**

• Introduction to DataSet	25 mins
• Filling And Updating DataSet And DataTable Using DataAdapter	55 mins
• Adding, Editing And Deleting Rows in DataTable	16 mins
• DataAdapter Events	28 mins
• Handling Optimistic Concurrency	36 mins
• Sorting And Filtering With DataView	21 mins
• Constraints And Data Relations Object	26 mins
• Dynamically Creating DataSet And DataTable	17 mins
• Typed DataSet	35 mins
• Summary	12 mins

N-Tier Layered Architecture Applications **196 mins**

• What is Tier and Layer	26 mins
• N-Tier Architecture And Role Of Each Layer	55 mins
• Developing N-Tier Architecture Application	70 mins
• Developing GUI For Application	45 mins

XML **205 mins**

• XML Introduction and Terminology	35 mins
• XML DOM Reading XML Document	35 mins
• XML DOM CRUD OPERATIONS	30 mins
• Using XPath To Filter	25 mins
• XML And DataSet Interoperability	30 mins
• XML TextWriter And XML TextReader	30 mins
• XPath Document And XPath Navigator	20 mins

Windows Services **92 mins**

• Introduction And Windows Service Template For Express Edition	22 mins
• Develop Deploy And Lunch Windows Service	50 mins
• Service Controller Application	20 mins

Delegates & Events **125 mins**

• Declaring And Using Delegates	40 mins
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•📺 Chat Application Using Delegates	35 mins
•📺 Declaring Raising And Handling Events	50 mins

User Control and Custom Control **124 mins**

•📺 User Control	53 mins
•📺 Inheriting User Control	29 mins
•📺 Custom Control	42 mins

Multithreading **287 mins**

•📺 Multithreading Overview	52 mins
•📺 Programming Threads	44 mins
•📺 Thread Priority	18 mins
•📺 Suspend Resume Interrupt And Cross Thread Operations	29 mins
•📺 Thread Pool	25 mins
•📺 Sync Using Monitor	36 mins
•📺 Sync Using Mutex	31 mins
•📺 Sync Using Semaphore And Events	24 mins
•📺 Async Programming	28 mins

Debugging and Diagnostics **106 mins**

•📺 Debugging Features In VS.NET	60 mins
•📺 Diagnostics API	46 mins

Packaging and Deployment **109 mins**

•📺 Packaging Introduction & File System Editor	57 mins
•📺 User Interface Editor	20 mins
•📺 Custom Actions and Launch Condition Editors	22 mins
•📺 Creating Shortcut to Uninstall	10 mins

Sample Project with Complete Source Code **---**

Sorry!!...For this module there is no videos.
