

C# Language										
Day	Module Name	Video Name	Video Duration	Trainer	Online Exam	Practice and Assignm	Total Hours			
1	VS.Net and Entry Point Method	Visual Studio Introduction and Installation	19	60	30	120				
		First MS.Net Application	26							
		Handling Command Line Arguments	19							
		Dealing with Return Value of Main	10							
		Resolve Ambiguity of Main Method	6							
		Using Command Line Compiler- CSC.EXE	10							
	VS.Net and Entry Point Method Assignment	<b>Assignment Name</b>								
		Hello World Sample Application								
		VS.Net and Entry Point Method Main Assignment								
		Revision of VS.Net Descriptive and Multiple Choice Questions								
	C# Language Syntax	Why Programming Language	72							
		C# & DataTypes Introduction	56							
		Variable Intialization and Types of Memory	17							
		Value Types vs Reference Types	11							
	C# Langugae Syntax Assignment	<b>Assignment Name</b>								
		Execute All the Programs Demonstrated in Videos								
		Simple Programs Demonstrating Different Types of Data Types and Their Ranges								
Programs Demonstrating Value Types and Reference Types										
<b>Total Hours</b>			<b>4.1</b>	<b>1</b>	<b>0.5</b>	<b>2</b>	<b>7.6</b>			

2	C# Language Syntax	Typecasting Implicit and Explicit	21	60	30	180	
		Boxing & Unboxing	32				
		Understanding Keyword var	10				
		Datatype Dynamic	11				
		Conversion of strings to other types	18				
		Using Strings in Code	16				
		String Concatenation and Interpolation	11				
		Strings as Immutable	17				
		String Builder	16				
		Constants and Enumerated DataTypes	24				
		Operators	24				
		Technique to Learn Programming 1	15				
C# Language Syntax Assignments	<b>Assignment Name</b>						
	Complete all the examples demonstrated in Videos						
	Type first 10 programs from C# Examples handout						
	Trace these Programs using F11						
	Write comments of each line of these 10 Programs						
<b>Total Hours</b>			<b>3.58</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.08</b>
3	C# Language Syntax	Control Statements	44	120	30	180	
		Understanding Arrays	31				
		Programming Arrays	11				
		Multidimensional Arrays	9				
		Understanding Methods	18				
		Method Overloading	14				
		Optional Parameters Named Arguments and params	26				
	C# Language Syntax Assignment	<b>Assignment Name</b>					
		Type next 10 Programs from C# Examples handout					
		Trace these programs using F11 (Step Into)					
		Write comments of each line of these 10 Programs					
		Read Complete handout					
Go through all Interview Questions							

	<b>Total Hours</b>		<b>2.55</b>	<b>2</b>	<b>0.5</b>	<b>3</b>	<b>8.05</b>	
<b>4</b>	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>			<b>8</b>	
5	OOps Concept	Object Oriented Concepts Part 1	46	60	30	120		
		Object Oriented Concepts Part 2	25					
	Programming Encapsulation	Writing Class And Initializing Objects	47					
		Destroying Objects and Role Of Garbage Collection	37					
	OOps Concept Assignment	<b>Assignment Name</b>						
Revision of Descriptive and Multiple Choice Question from OOPs Concept								
Practice Examples shown in videos								
	<b>Total Hours</b>		<b>2.58</b>	<b>1</b>	<b>0.5</b>	<b>2</b>	<b>6.08</b>	
6	Programming Encapsulation	Writing Methods in Classes	25	60	60	240		
		Working with Properties in Class	25					
		Constructor and Destructor	31					
		Static Members	55					
	Programming Encapsulation Assignments	<b>Assignment Name</b>						
		Assignment on Properties						
		Programming Encapsulation Sample Code						
		Math Sample Code						
		Encapsulation Assignment						
		Get & Set Properties Sample Code						
Vehicle Assignment Solution								
Revision of Descriptive and Multiple Choice Question from OOPs Programming Encapsulation								
	<b>Total Hours</b>		<b>2.27</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>8.27</b>	
7	Inheritance	Protected Keyword And Constructors In Inheritance	26	60	60	240		
		Casting Between Reference Types	32					
		Static And Dynamic Binding	37					
		Abstract Class And Methods	23					
		Object Class As Parent	20					
		<b>Assignment Name</b>						
	Object Sample Code							
Inheritance Sample Code								

	Inheritance Assignment	Abstract Sample Code						
		Assignment in Inheritance						
		Inheritance Override Assignment						
		Vehicle Assignment using Inheritance						
		Calculator Assignment						
		Read Complete handout						
	<b>Total Hours</b>		<b>2.3</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>8.3</b>	
8	Interface and Polymorphism	Polymorphism And Syntax Of Interface	25	60	120	240		
		Explicit Implementation And Casting	21					
		Types Of Interface	14					
	Interface and Polymorphism	<b>Assignment Name</b>						
		Interface for Explicit Implementation Sample Code						
		Assignment on Interface						
		Interface Figure Sample Code						
		OOPs Interface and Polymorphism Assignment						
<b>Total Hours</b>		<b>1</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>8</b>		
9	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>		<b>8</b>		
10 & 11	Collections and Generics	Introduction To Collection Of Classes	45	60	60	800		
		Writing Generic Classes And Methods	46					
		Generic Collection Classes	32					
	Collections and Generics Assignment	<b>Assignment Name</b>						
		Collections Sample Code						
		Generics Sample Code						
		Collections and Generics Sample Code						
		Collections and Generics Assignment						
	Assignment on Collections							
	Assignment on Generic List							
	Stack and Queue Assignment							
<b>Total Hours</b>		<b>2.05</b>	<b>1</b>	<b>1</b>	<b>13.33</b>	<b>17.38</b>		
12	Assemblies and GAC	Assemblies Introduction And Working With Class Library	57	60	60	280		
		Shared Assemblies and GAC	39					

12	Assemblies and GAC Examples	<b>Assignment Name</b>		00	00	280	
		Assembly Sample Code					
		Assemblies and GAC Assignments					
	<b>Total Hours</b>		<b>1.6</b>	<b>1</b>	<b>1</b>	<b>4.67</b>	<b>8.27</b>
13	Exception Handling	What Exception And Behavior Of Try And Catch Blocks	47	60	60	280	
		Throw And Finally Keywords	25				
		Writing Custom Exception	18				
	<b>Assignment Name</b>						
	Exception Handling Sample Code						
	Exception Handling Assignment						
Exception Assignment	User Defined Exception Assignment						
	<b>Total Hours</b>		<b>1.5</b>	<b>1</b>	<b>1</b>	<b>4.67</b>	<b>8.17</b>
	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>			<b>8</b>
15	Database Programming Using ADO.Net	ADO.NET Evolution And Role Of Managed Providers	36	60	60	240	
		Installing SQL Server And Management Studio	8				
		Establishing Connction With	42				
		Executing Insert, Update And Delete Commands	32				
		Fetching Data Using Select Command	26				
		How to Implement Login in Application	17				
	<b>Assignment Name</b>						
	Database Programming Using ADO.Net	ADO.Net Sample Code					
		Vehicle Assignment					
		Assignment to Save Image in Database					
		Employee Management System Assignment					
<b>Total Hours</b>		<b>2.68</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>8.68</b>	
	Database Programming Using ADO.Net & Managing Data Using DataSet	Executing Stored Procedures	32				
		Managing Database Transaction And DTC	39				
		Summary And API Used	13				
		Introduction to DataSet	24				

16 & 17	Data Using DataSet	Filling DataSet And DataTable Using DataAdapter	53	60	60	600	
	Database Programming Using ADO.Net & Managing Data Using DataSet Assignment	<b>Assignment Name</b>					
		DataSet Sample Code					
		Employee Management Assignment using DataSet					
		Vehicle Assignment Using DataSet					
<b>Total Hours</b>			<b>2.68</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>14.68</b>
18 & 19	N-Tier Layered Architecture	What is Tier and Layer	26	60	60	600	
		N-Tier Architecture And Role Of Each Layer	54				
		Developing N-Tier Architecture Application	70				
		Developing GUI For Application	45				
	N-Tier Layered Architecture Assignment	<b>Assignment Name</b>					
		N-Tier Sample Code					
		N-Tier Layered Architecture Application Assignment					
<b>Total Hours</b>			<b>3.25</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>15.25</b>
20	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>		<b>8</b>	
21 & 22	Vehicle and Account Project		0	16		16	
23,24,25	Contacts Manager Project		0	32		32	
						<b>206.81</b>	
<b>SQL Server</b>							
26	Introduction to SQL Server	Introduction to SQL Part 1	40	60	30	240	
		Introduction to SQL Part 2	24				
	DDL and DML	DDL and DML Statements	55				
	DQL	DQL Statements	70				
	DDL , DML, DQL Assignment	<b>Assignment Name</b>					
		Emp Dept Assignment					
		Adventure Works DW					
10 Queries each from DDL,DML,DQL							

<b>Total Hours</b>				<b>3.15</b>	<b>1</b>	<b>0.5</b>	<b>4</b>	<b>8.65</b>			
27	Aggregate Functions	Aggregate	74	60	30	200					
	Joins	Joins Part 1	41								
		Joins Part 2	41								
		Joins Part 3	50								
	Aggregate Functions and Joins Assignment	<b>Assignment Name</b>									
		Aggregate Functions Assignments									
		Joins Sample Code									
Joins Assignments											
Sample Table											
<b>Total Hours</b>				<b>3.43</b>	<b>1</b>	<b>0.5</b>	<b>3.33</b>	<b>8.26</b>			
28	Constraints	Constraints	65	60	30	160					
	Views	Views Part 1	51								
		Views Part 2	13								
	Programming using T-SQL	TSQL Part 1	69								
		TSQL Part 2	12								
		TSQL Part 3	28								
	Constraints,Views,Programming using T-SQL Assignment	<b>Assignment Name</b>									
Constraints Assignment											
Views Assignment											
T-SQL Assignments											
29	<b>Revision,Group Discussion,Exam,Review</b>			<b>0</b>	<b>8</b>		<b>8</b>				
<b>Total Hours</b>				<b>3.97</b>	<b>1</b>	<b>0.5</b>	<b>2.67</b>	<b>8.14</b>			
30	Stored Procedures	Execution Plan	24	60	30	320					
		Stored Procedure Part 1	43								
		Stored Procedure Part 2	16								
		Stored Procedure Part 3	29								
	Stored Procedures Assignment	<b>Assignment Name</b>									
Practice Examples shown in video											
Assignment in Stored Procedures											
<b>Total Hours</b>				<b>1.87</b>	<b>1</b>	<b>0.5</b>	<b>5.33</b>	<b>8.7</b>			
31	<b>Revision,Group Discussion,Exam,Review</b>			<b>0</b>	<b>8</b>		<b>8</b>				
32	Triggers	Triggers Part 1	47	60	30	300					
		Triggers Part 2	20								
		Triggers Part 3	10								
		Triggers Part 4	31								

	Assignment in Triggers	<b>Assignment Name</b>					
		Practice Examples Shown in video					
		Assignment in Triggers					
	<b>Total Hours</b>		<b>1.8</b>	<b>1</b>	<b>0.5</b>	<b>5</b>	<b>8.3</b>
33	Cursor	Cursor	70	60	30	200	
	Index	Index Part 1	15				
		Index Part 2	24				
		Index Part 3	19				
		Index Part 4	14				
	Transactions	Transaction Part 1	26				
		Transaction Part 2	42				
	Cursor,Index,Transact ions Assignments	<b>Assignment Name</b>					
		Practice examples shown in video					
		Assignment in Cursor					
Assignment in Index							
Assignment in Trigger							
34	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>		<b>8</b>	
	<b>Total Hours</b>		<b>3.5</b>	<b>1</b>	<b>0.5</b>	<b>3.33</b>	<b>8.33</b>
<b>LINQ &amp; Entity Framework</b>							
35	LINQ Centric C# Language Extensions	Anonymous Types	30	60	30	120	
		Partial Classes	20				
		Extension Methods	20				
	LINQ Architecture	LINQ Architecture	18				
	LINQ Queries	LINQ Queries Syntax	48				
		Lamda Expressions	58				
		LINQ Queries over Custom Collections	37				
	LINQ Queries Assignments	<b>Assignment Name</b>					
		Practice Examples shown in video					
		LINQ Queries Examples					
	<b>Total Hours</b>		<b>3.85</b>	<b>1</b>	<b>0.5</b>	<b>2</b>	<b>7.35</b>
	Entity Framework Introduction	Entity Framework Introduction and First Example	55				
CRUD Operations		CRUD Operations	50				
		CRUD Operations with BO Class	16				
		Stored Procedure Execution	28				



36	Querying Database	Entity SQL	35	60	30	180	
		Eager and Lazy Loading Queries	20				
	Additional Features	Inheritance of Entities	27				
		Modeling Techniques	19				
	Entity Framework Assignments	<b>Assignment Name</b>					
		Practice Examples shown in video					
CRUD Operations Assignment							
<b>Total Hours</b>			<b>4.17</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.67</b>
37	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>		<b>8</b>		<b>8</b>
<b>Developing Windows Based Project</b>							
38	Employee and Department using Layered Architecture and LINQ ,Entity Framwork		0	60	0	420	
39 & 40	Contacts Manager using LINQ and Entity Framework		0	60	0	900	
<b>Total Hours</b>			<b>0</b>	<b>2</b>	<b>0</b>	<b>22</b>	<b>24</b>
<b>HTML and CSS and Javascript</b>							
41	Web Programming Introduction	Web Introduction and Terminology	45	60	30	180	
	HTML Introduction	Introduction	30				
	HTML- Basic Formatting Tags	Basic Formatting Tags	22				
	HTML Grouping Using DIV Span	Grouping Using Div Span	7				
	HTML Lists	Lists	8				
	HTML Images	Images	19				
	HTML HyperLink	Hyperlink	19				
	HTML Table	Table	13				
	HTML Iframe	Iframe	9				
	HTML Form	Form	24				
	HTML Headers	Headers	8				
	HTML Miscellaneous	Misellaneous	8				

		<b>Assignment Name</b>					
		Practice all the examples shown in video					
		Assignment in HTML using DIV and Span					
		Assignment in HTML using Lists					
		Assignment in HTML using Images and Hyperlink					
		Assignment in HTML using Table					
		Assignment in HTML using Forms					
		<b>Total Hours</b>	<b>3.53</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.03</b>
42	CSS2-Introduction	CSS2-Introduction	14	60	30	220	
	CSS2-Syntax	CSS2-Syntax	14				
	CSS2-Selectors	CSS2-Selectors	27				
	CSS2-Color Background Cursor	CSS2-Color Background Cursor	16				
	CSS2-Text Fonts	CSS2-Text Fonts	12				
	CSS2-Lists Tables	CSS2-Lists Tables	17				
	CSS2-Box Modal	CSS2-Box Modal	20				
	CSS2-Display Positioning	CSS2-Display Positioning	32				
		<b>Assignment Name</b>					
		CSS2-Introduction					
		CSS2-Syntax					
		CSS2-Selectors					
		CSS2-Color Background Cursor					
		CSS2-Text Fonts					
	CSS2-Lists Tables						
	CSS2-Box Modal						
	CSS2-Display Positioning						
		<b>Total Hours</b>	<b>2.53</b>	<b>1</b>	<b>0.5</b>	<b>3.67</b>	<b>7.7</b>
	Javascript Introduction and First Program	Javascript Introduction and First Program	28	60	30	180	
	Javascript Language Basics	Variables and Data Types	21				
		Operators and Control Statements	20				
		Arrays	13				
		Understanding Functions	13				
		Predefined Functions	14				

43	JavaScript Built In Functions	Date and Time Functions	8				
		String and Regular Expressions	22				
		Math Object	5				
	JavaScript Forms	Form Elements 1	27				
		Form Elements 2	18				
		Form Validation	22				
	Javascript Assignments	<b>Assignment Name</b>					
		JS Examples					
		Language Syntax Demo					
		Built in Functions Demo					
Forms Demo							
<b>Total Hours</b>			<b>3.52</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.02</b>
44	Javascript-HTML Document Object Model	Windows Object	48	60	30	200	
		Document Object	21				
		Other DOM Objects	11				
	Javascript-Cookies	Working with Cookies	39				
	Javascript-Working with Classes and Objects	Working with Classes and Objects	21				
		Call Method	11				
		Implementing Inheritance	9				
	Javascript Assignments	<b>Assignment Name</b>					
		HTML DOM Assignment					
		Cookies Assignment					
Classes and Object Assignment							
Inheritance Assignment							
<b>Total Hours</b>			<b>2.67</b>	<b>1</b>	<b>0.5</b>	<b>3.33</b>	<b>7.5</b>
45	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>		<b>8</b>	
ASP.NET MVC							
	Overview of .NET Implementation	What is .Net	15				
		.Net Implementation and Types of .Net Applications	27				
		About MS.Net Framework	12				
		About Mono Xamarin UWP	13				
		Introduction to .Net Core	37				
	Getting Started with ASP.Net Core	About ASP.Net Core	17				
		Layout of ASP.Net Core Application	26				
		Understanding Razor Pages	21				
		What is MVC Pattern	15				

46	Controllers and Action Method	MVC in ASP.Net Core	8	60	30	160					
		Understanding Controllers and Action Methods	19								
		Understanding Views	20								
		Understanding Model between View and Controller	16								
		Types of Action Results	24								
		About Action Selectors									
Controllers and Action Method Assignment	<b>Assignment Name</b>										
	Practice the Examples shown in video										
	Assignment in Razor Pages										
	Assignment in Controllers and Action methods using Actions Results and Selectors										
<b>Total Hours</b>			<b>4.5</b>	<b>1</b>	<b>0.5</b>	<b>2.67</b>	<b>8.67</b>				
47	Application Start-up and Registering Services using Dependency Injection.	Understanding Entry Point Method	19	60	30	120					
		Startup class Configure Service and Configure Method	18								
		Registering Services and Dependency Injection	26								
	Working with Middleware	Understanding Middleware and use Run and Map Methods	22								
		Programming Custom Middleware	19								
		Built In Middleware	26								
		Migrating Modules and Handlers to Middlewares	11								
	Exploring Razor Views	Razor Syntax	34								
		Razor Directives	11								
		Partial Views	18								
		Layout Pages	27								
		View Component	24								
	Razor Views Assignment	<b>Assignment Name</b>									
Practice the Examples shown in video											
Assignment in how to use Dependency Injection											
Assignment in Razor Views											
<b>Total Hours</b>			<b>4.25</b>	<b>1</b>	<b>0.5</b>	<b>2</b>	<b>7.75</b>				

48	Digging into HTML Helpers	Introducing HTML Helper Methods	39	60	30	180				
		Binding HTML Helpers to View Data	9							
		Binding HTML Helper to Model	35							
		Display and Editor Helper Methods	10							
		Custom Templates for Display and Editor Helper Methods	13							
		Reusing Helper Methods	15							
	Using Tag Helper	Tag Helpers Introduction	19							
		Anchor and Image Tag Helpers	16							
		Form Environment and Script Tag Helpers	35							
		Custom Tag Helpers	11							
	Understanding Model Binders	HTML Form Submit Behaviour	9							
		Behaviour of Default Model Binder	16							
		Customizing Model Binder	20							
	HTML Helpers,Tag Helper,Model Binders Assignment	<b>Assignment Name</b>								
		Practice the Examples shown in video								
		Assignment in Helper Methods								
		Assignment in Tag Helper								
Assignment in Model Binders										
49	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>	<b>8</b>					
<b>Total Hours</b>			<b>4.12</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.62</b>			
50	Validations and Data Annotations	Validating Model Object	32	60	30	180				
		Remote and Custom Validation Attributes	25							
		Custom Client Side Validation	24							
	Configuration Web Applications	Configuring ASP.Net Core Applications	29							
		Working with Environmental Variable	19							
	State Management Techniques	What is a Cookie	24							
		Programming Cookie in ASP.Net Core	23							
		Authentication using Cookies	19							
Programing Sessions in .Net Core	23									

		ViewData vs ViewBag vs TempData	16							
	Validations and Data Annotations & State Management Techniques Assignment	<b>Assignment Name</b>								
		Practice Examples shown in video								
		Assignment in Data Annotations								
		Assignment in State Management Techniques								
<b>Total Hours</b>			<b>3.9</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.4</b>			
51	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>			<b>8</b>			
52	Data Access Using Entity Framework Core	CRUD Operations using EF Core	27	60	30	180				
		Working with Migration in EF Core	10							
		Writing and Using Bussiness Objects	18							
		Writing and Using Generic Repository	23							
		Caching in Repository	9							
	Authentication and Authorization	ASP.Net Core Identity Provider Introduction	20							
		Scafoling Identity in Exsiting Application	18							
		Adding Custom Fields to User Entity	21							
		Role Based Authorization	28							
		External Authentication Providers	11							
		Using JWT Token to Authenticate and Authorize	46							
	EF Core and Authentication and Authorization Example	<b>Assignment Name</b>								
		Practice the Example shown in video								
Assignment in Employee Department using EF Core and JWT										
Assignment in Vehicle Example using EF Core										
<b>Total Hours</b>			<b>3.85</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>8.35</b>			
53	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>			<b>8</b>			
	Web Caching	Web Caching	41	60	30	180				

54	URL Routing	URL Routing	30				
		Routing Features	15				
	WEB API	Working with WEB API	36				
		Swagger and Swashbuckle	19				
		Understanding JWT Token	16				
		Web API Security using JWT Token	43				
	WEB API Assignment	<b>Assignment Name</b>					
		Practice Examples shown in video					
		Assignment In Web API					
<b>Total Hours</b>			<b>3.33</b>	<b>1</b>	<b>0.5</b>	<b>3</b>	<b>7.83</b>
55	<b>Revision,Group Discussion,Exam,Review</b>		<b>0</b>	<b>8</b>		<b>8</b>	
<b>Projects</b>							
56 & 57	Mini-Project Vehicle Assignment covers all modules with ASP.NET MVC		0	120	14		
58 , 59 & 60	Contacts Manager application with ASP.NET MVC		0	120	30		