

Title: Web Application Development with ASP.NET and MS SQL Server

Course Outline:

Module One: Basic C#

C# Environment Setup, C# Basic Syntax, Naming Convention, Data types, Type Conversion, Variables, Operators, Decision Making, Loop.

Module Two: Object Oriented Programming C#

Encapsulation, Data Hiding, Methods, Classes, Object, Constructor, Properties, Inheritance, Polymorphism, Interfaces, One to One Relation between class, One to Many relation between class.

Module Three: Advance C#

Collections Type, Anonymous type, Lamda Expression, LINQ and LINQ with Lamda style, Exception Handling.

Module Four: HTML5, CSS, JavaScript, Bootstrap, jQuery

HTML5 Elements, HTML5 Attributes, HTML5 Form Design, CSS , CSS Id and Class, Bootstrap Grid System, Bootstrap Form, Basic JavaScript, Basic jQuery, jQuery Validation.

Module Five: Getting Started with ASP.NET Web Form

Server Side and Client Side, ASP.NET Page Life Cycle, ViewState , Session, Create Form in ASP.NET, Master Page, Database Access, CRUD operation in Form.

Module Six: MS SQL Server

Create Database, Create Table, Create Relational Database.

Work with Select, Where, And, Or , Not, Order By, Insert, Update, Delete , Join.

Work with View, Store Procedure, Trigger, Function

Module Seven: Getting Started with ASP.NET MVC

What is MVC, Routing, Understanding Controllers, Understanding View, Understanding Model, Model Binding, Razor Syntax, HTML Helper, Layout, Partial View, Bootstrap jQuery in MVC, AJAX in MVC, Data Validations.

Module Eight: Getting Started with Entity Framework

Code First Migration, Data Context, Migrations, Data Annotations, Configure One-to-One One-to-Many Many-to-Many Relationship

Project Work:

1. **Web Form**
2. **MVC and Entity Framework**

Tools:

1. **Visual Studio 2013**
2. **Microsoft SQL Server 2012**