Course structure

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Self
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Introduction to .NET (1 class)

Introduction to C# Programming language (14 classes)

- DataTypes
- Branching control statements
- Looping control statements
- Arrays
- Collection classes
- Generic collection classes
- Delegates (Action and Function delegates)
- Events
- File handling
- Exception handling
- Ananymous methods
- Extension methods
- LINQ (language integrated query)

Object Oriented programming princicples (3 classes)

- What is a class?
- What is an object
- How to write classes and mehods by following SOLID rules
- Encapsulation, Inheritance, Polymoprhism, Abstraction
- Interfaces
- Abstract classes
- Sealed classes
- Patial classes

Introduction to Windows forms development (5 classes)

- Simple Controls (Label, Button, Checkbox, combobox etc)
- Layout controls (GroupBox, TableLayout panel, Tab panels)
- DataGridview control
- ADO.NET

Introduction to ASP.NET webforms (4 classes)

- Request life cycle of webpage
- Explanation of intrinsic objects (Request, Response, Session, Application)
- ASP.NET server controls (Button, label, textbox, checkbox, combobox , GridView, Fileupload, layout controls etc)
- IIS

- Web pages design (aspx)
- Master pages
- Gloabal.asax
- web.config file usage
- Web Services

Introduction to ASP.NET MVC (3 classes)

- What is MVC
- Controllers
- Views
- Models
- ViewBag,ViewData,TempData
- Views and Partial views
- Filters (authorization and action filters)