



# MICROSOFT .NET COURSES

2013



## MS.NET 100: Core .NET

### Introduction to Framework

Framework overview

Framework architecture

### Languages

**C#**

Language Basics

**VB.NET**

OOP Concepts

Collections

Generics

File Handling

Exception Handling

Reflection

LINQ

Expressions and Lambda

Serialization

...More

### Data & Modelling

LINQ

Entity

Framework

ADO.NET

Connected Architecture

Disconnected Architecture

Data Adapter

Working with XML

Modelling and Mapping

Working with Objects

Working with Data Providers

Querying Conceptual Model

Working with Ajax

JSON

O Data

...More

### Asynchronous & Parallel Programming

Threading

Multi-Threading

Synchronisation

Task Based Async Patterns

Event Based Async Patterns

	Parallel Programming
	Task Parallel Library
	Parallel LINQ
	Task Schedulers
	Lambda Expression
	...More
<b>Network Programming</b>	
	Pluggable Protocol
	Requesting Data
	Programming Pluggable Protocol
	Peer To Peer Programming
	Socket Programming
	...More
<b>Security</b>	
	Security Concepts
	Principal
	Authentication
	Authorization
	Code Access Security
	Role Based Security
	...More
<b>Performance &amp; Standards</b>	
	Coding standards
	Application Performance
	...More

## MS.NET 101: Desktop Applications Development

### Windows Presentation Foundation (WPF)

XAML

Layout

Controls

MVVM

Data Bindings

Events

Graphics Multimedia

Security

Advanced Class Library

Tools

Adorners

Documents

Animations

More...

### Windows 8 Application Development

Controls

Files

Multimedia

Navigation

Asynchronous programming

Networking

Security

Store

App Packaging

UX/UI

More...

### Win-Forms

Controls

Layout

Forms and Dialogs

Events

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Navigation

Menus

Data Binding

Custom Controls/ User Controls

Custom Paint

Security

Performance and Standards

More...

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## MS.NET 102: Web Applications Development

### ASP.NET

Introduction

State Management

Page Life Cycle

Cookies

Caching

Web Controls

Data Binding

Themes

Personalization

Security

Globalization

Configuration

HTTP Pipeline

XML/JSON

JavaScript

Web Services

IIS Introduction

Deployment

More...

### ASP.NET MVC

MVC

Controllers and Routing

Views

Models (Data)

JavaScript

Security

Internationalization

Dependency Injection

Model Binding

Deployment

NuGet (Packages)

More...

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**Silverlight**

Fundamentals  
Custom Controls  
Server Communication  
Consuming Services  
XAML  
MVVM  
Navigation  
Security  
Data Binding  
Accessing DOM  
RIA Services  
More ....

**Ajax**

Why Ajax  
DOM  
Updating UI  
Calling Services  
XML/JSON  
ASP.Net Ajax Toolkit  
Debugging  
More...

**JavaScript**

Fundamentals  
Accessing DOM  
Events  
Consuming Services  
More...

**HTML 5**

Fundamentals  
Offline Application

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Caching

Geo Location

Canvas

Web Storage

Web Workers

Web Sockets

Micro Data

CSS

More...

## JQuery

Library Introduction

JavaScript

Accessing DOM

Plugins

Ajax

Events

Customizing JQuery

More...

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## MS.NET 103: Services Development

### WCF

Fundamentals

SOA

RESTfull Services

Addresses and Bindings

Contracts

Behaviours

Hosting and Consuming

Runtime Execution

Serialization

Identity and Access Control

Security

Reliability

More...

### Web Services

Fundamentals

Serialization

Consuming Services

### Data Services

Introduction

OData Protocol

OData Model

Serializing Data with ATOM

Serializing Data with JSON

Issuing Queries

Data Service with Mobile devices

Exposing data from Cloud app using Data service

More...

**WCF Silverlight RIA Services**

Introduction

Pattern

Queries

Business Logic Validation

Authentication

Authorization

Profiles

More...

**Windows Services**

Introduction

Service Lifetime

Service and Controller

Deploying Service

More...

## MS.NET 104: Mobile & Handheld Devices Development

### Windows Phone 8

Windows Phone SDK

User interface

Navigation

Input

Data

Local database

Communications

Launching, resuming, and multitasking

Device interaction

Globalization and localization

App manifest

App Packaging

More...

### Windows 8 Store (Metro) Apps

Controls

Files

Multimedia

Navigation

Asynchronous programming

Networking

Security

Store

App Packaging

UX/UI

More...