

Syllabus for Dot-Net-2016

Week 1	Introductions, course mechanics, .NET Overview, CLR, Assemblies (monolithic vs. component-based applications), Execution Model, Client-Side vs. Server-Side Programming, Web Technologies
Week 2	HTML, JavaScript, CSS, jQuery, OpenDesigns, Introduction to C#: Types and program structure
Week 2	Development Environment Setup, ISS, SQL Server and Visual Studio, Advanced C#: OOP, Delegates, Events, Attributes, unsafe code, .NET Interop
Week 2	.NET Framework Class Library (FCL): System, Collections, I/O, Networking, Threading, Transactions, Exceptions
Week 3	Databases and Data Access using ADO.NET & LINQ
Week 3	Introduction to ASP.NET, programming model, server controls, data binding
Week 4	ASP.NET state management, tracing, caching, error handling, security, deployment, user and custom controls, DotNetNuke
Week 4	Midterm Exam
Week 5	Exposing and consuming ASP.NET Web Services, XML, RESTful, SOAP, DISCO, UDDI
Week 5	Continue with Web Services
Week 6	Developing Secure Web Services
Week 6	.NET remoting
Week 7	HTML5 and Cross-Platform Mobile Apps using PhoneGap
Week 7	Course Review/catch up



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