

## Advanced Diploma in .NET Technologies

### Objective of the Course:

This training course has been specifically designed to address the requirements of developers who want to become experts in .NET environment

### Learning Outcomes:

Participants will learn to develop applications using C# and VB.NET. They will also learn to apply these languages to develop server-side applications which make use of ADO.NET, ASP.NET, Web Services etc

Duration of the Course (in hours): 360 hrs /12 Weeks

Appr. Fees (INR): Rs 35,000/-

Minimum eligibility criteria and prerequisites if any: Undergoing /Graduation with knowledge of any programming Language

### Outline of the Course

S. No	Topic	Minimum No. of Hours
1.	C#. Getting Started with .Net Framework, Exploring Visual Studio .NET, Inside a C# Program, Data Types, Statements, Arrays, Using Strings, Objects, Classes and Structs, Properties, Inheritance, Indexers, Delegates, Events, Namespaces, Generics, Collections and Data Structures, Exception Handling, Threading, Using Streams and Files, Reflection, Assemblies, versioning, Advanced Database Programming using ADO.net, Using GDI +, Networking,.net Remoting, Manipulating XML.	120 hrs
2.	VB.NET Creating Applications with Visual Basic.NET, Variables, Constants, and Calculations, Making Decisions and Working with Strings, Lists, Loops, Validation, Sub Procedures and Functions, Multiple Forms, Standard Modules, and Menus, Arrays, Timers, Form Controls, WPF Controls, File Handling, Exception Handling, Working with Databases, Advanced Database Programming using ADO.net, Classes, Generics, Collections, Inheritance, Custom Controls, Packaging & deployment, Using Crystal Reports.	80 hrs
4.	ASP.NET Building a Web Application, Examples Using Standard Controls, Using HTML Controls, Validating Form Input Controls using Validation Controls, Understanding Applications and State, Applying Styles, Themes, and Skins, Creating a Layout Using Master Pages, Binding to Databases using Controls, Data Management with ADO.net , Creating a Site Navigation Hierarchy, Navigation Controls , Membership and Role Management, Login Controls, Securing Applications, Caching For Performance, Working with XML, Using Crystal Reports in Web Forms, AJAX, LINQ.	66 hrs
5.	<b>Project work</b>	94 hrs
	Theory/ Lecture Hours:	130 hrs
	Practical/ Tutorial Lecture Hours:	230 hrs
	Total Hours:	360 hrs

## Short Term Courses – NIELIT

Books recommended for  
reference and reading:

**Group Code:** DNET

**Group Name:** .NET Technologies

**Course Code:** AD01

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Technologies