



**LEARN WELL
TECHNOCRAFT**

ASP .NET SYLLABUS



11TH YEAR OF ACCOMPLISHMENTS

**AUTHORIZED GLOBAL CERTIFICATION CENTER FOR
MICROSOFT, ORACLE, IBM, AWS AND MANY MORE.**

8411002339/7709292162

WWW.DW-LEARNWELL.COM

INFO@DW-LEARNWELL.COM

**203, SUPREME CENTER, ITI ROAD, ABOVE PIZZA HUT,
AUNDH, PUNE - 411007.**

ACHIEVEMENTS FROM TRAINING



- REAL TIME SCENARIOS, CASE STUDIES, PROJECTS INCLUDED.
- REAL TIME DATA PROVIDED FOR PRACTICE.
- SOFTWARE WILL BE INSTALLED ON CANDIDATES MACHINE.
- LEARN FROM INDUSTRY EXPERTS.
- GLOBAL CERTIFICATION PREPARATION.
- APPEAR FOR GLOBAL CERTIFICATION AT LEARN WELL TECHNOCRAFT ITSELF.
- GET DISCOUNTED CERTIFICATION VOUCHERS.
- AUTHORIZED GLOBAL CERTIFICATION CENTER FOR PEARSON, PSI, KRYTERION.

ASP.Net Syllabus

Getting Started with ASP.NET

This module explains how to build and configure a simple ASP.NET application.

Lessons

- Introduction to ASP.NET Web Applications
- Features of ASP.NET
- Configuring ASP.NET Applications

Lab : Creating and Configuring an ASP.NET Application

Creating an ASP.NET Application
Configuring Session State
Configuring Caching

After completing this module, students will be able to:

Explain how to create dynamic Web pages by using ASP.NET.

Manage state, handle requests, and improve accessibility by using the features of ASP.NET.

Configure an ASP.NET application by using .config files.

Implementing a User Interface with ASP.NET Server Controls

This module explains how to implement a dynamic user interface by using ASP.NET controls.

Lessons

- Consuming Controls to Interact with Users
- Creating Custom Controls

Lab : Consuming and Creating ASP.NET Server Controls

- Creating a User Interface by Using Server Controls in an ASP.NET Form
- Creating User Controls and Custom Server Controls

After completing this module, students will be able to:

Create a user interface on an ASP.NET page by using standard Web server controls.

Create a user control and a custom server control and add them to an ASP.NET page.

Displaying and Manipulating Data in ASP.NET

This module explains how to display and manipulate data from any source in an ASP.NET application

Lessons

- Accessing Data by Using ADO.NET
- Accessing Data from Services
- Presenting Data in Web Controls

Lab : Displaying and Manipulating Data in ASP.NET

- Accessing Data from an XML File as a Data Source
- Consuming Data from a Web Service
- Displaying Data by Using Data-Bound Controls

After completing this module, students will be able to:

Access and manipulate data from different sources by using ADO.NET .

Access and manipulate data from Windows Communication Foundation services or Web services.

Present data to the user by placing data-bound controls on an ASP.NET page.

Creating Responsive Pages by Using Client-Side Technologies

This module explains how to create pages that respond rapidly to user requests.

Lessons

- Creating Partial Page Updates by Using AJAX
- Scripting Actions on the Web Client

Lab : Creating Responsive Pages by Using Client-Side Technologies

- Implementing Partial Page Updates by Using AJAX Controls
- Accessing a Web Service by Using a Client-Side Script

After completing this module, students will be able to:

Improve page responsiveness by using the ASP.NET AJAX controls.

Interact with the user, access services, and access the AJAX client-side library by using client scripts.



Debugging and Deploying ASP.NET Applications

This module explains how to deploy a reliable, robust Web application to a Web server.

Lessons

- Troubleshooting and Debugging ASP.NET Applications
- Deploying Completed ASP.NET Applications

Lab : Debugging and Deploying an ASP.NET Application

- Debugging an ASP.NET Application
- Deploying an ASP.NET Application

After completing this module, students will be able to:

Find and eliminate bugs in an ASP.NET application.

Deploy an ASP.NET application to a production Web server.

Getting Started with ADO.NET

This module explains how to connect to a database and retrieve data by using ADO.NET commands.

Lessons

- Introduction to ADO.NET
- Connecting to a Database and Retrieving Data
- Best Practices for Managing Connections and Performing Queries

Lab : Connecting to a Database and Retrieving Data

- Connecting to a Database
- Executing a Simple Query
- Executing a Query That Returns a Result Set
- Executing a Query That Requires a Parameter

After completing this module, students will be able to:

Describe the purpose and structure of ADO.NET .

Explain the role of data providers in ADO.NET .

List the technologies and techniques available for managing data with ADO.NET .

Modifying Data by Using ADO.NET Commands

This module explains how to modify data by using ADO.NET commands.

Lessons

- Inserting, Updating, and Deleting Data
- Managing Data Integrity and Concurrency

Lab : Modifying Data by Using ADO.NET Commands

- Inserting, Updating, and Deleting Data in a Database
- Implementing Transactional Updates
- Executing Commands Asynchronously

After completing this module, students will be able to:

Insert, update, and delete data by using ADO.NET Command objects.

Implement transactions to control data integrity and concurrency.

Querying and Maintaining Data by Using LINQ

This module explains how to use LINQ to retrieve and update data.

Lessons

Querying In-Memory Data by Using LINQ Query Expressions

Retrieving Data by Using LINQ to SQL

Modifying Data by Using LINQ to SQL

Lab : Querying and Maintaining Data by Using LINQ to SQL

- Defining Entity Classes
- Retrieving Data by Using LINQ to SQL
- Modifying Data by Using LINQ to SQL

After completing this module, students will be able to:

Define LINQ queries for selecting data from an in-memory data structure.

Use LINQ to SQL to query data in a database.

Use LINQ to SQL to modify data and save changes to the database.



Implementing an Entity Model by Using the ADO.NET Entity Framework

This module explains how to use the Entity Framework to implement an entity data model for querying and maintaining data.

Lessons

- Creating an Entity Data Model by Using the ADO.NET Entity Framework
- Querying and Modifying Data by Using the ADO.NET Entity Framework

Lab : Implementing an Entity Data Model by Using the ADO.NET Entity Framework

- Creating an Entity Data Model
- Querying Entities in an Entity Data Model
- Modifying Entities in an Entity Data Model

After completing this module, students will be able to:

Explain how to use the ADO.NET Entity Framework to map a database schema to a logical business model.

Use the ADO.NET Entity Framework to query and manage data.

Building Occasionally Connected Solutions by Using Synchronization Services

This module explains how to use Synchronization Services to build occasionally connected solutions.

Lessons

- Understanding Microsoft Synchronization Services
- Downloading Data by Using Synchronization Services
- Uploading Data by Using Synchronization Services

Lab : Building Occasionally Connected Solutions by Using Synchronization Services

- Modifying a Database Schema to Support Synchronization
- Downloading Data to a Client Computer
- Uploading Data Changes to the Database

After completing this module, students will be able to:

Explain how Synchronization Services supports occasionally-connected solutions.

Use Synchronization Services to download data from a SQL Server database.

Use Synchronization Services to upload data to a SQL Server database.