



## **Department of Computer Networks Systems**

### **Course Description Form**

**Course Title: Web Application Development II**

**Course Code:**

**Semester: II**

**Level: B.Sc.**

**Class: 4<sup>th</sup>**

**Academic Year: 2022/2021**

**Course Instructor: Prof. Dr. Ali Makki Sagheer**

**Academic status: Professor**

**Place of work: College of Computer Science and Information Technology**

**Credit Hours: 3 hours**

**Instructor Office Hours: 3 hours**

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## Objectives:

### 1. Course Description:

2. ADO.NET allows you to implement data access in ASP.NET applications. The two key components of ADO.NET are Data Providers and DataSet . The Data Provider classes are meant to work with different kinds of data sources. They are used to perform all data-management operations on specific databases. DataSet provides a disconnected representation of result sets from the Data Source, and it is completely independent from the Data Source. From the following chapters you can learn some important database programming in ASP.NET applications.

### 3. Methods of Teaching:

Interaction lectures, presented slide show lectures and assignments.

### 4. Assessment Method:

Reports, activities and workshops.

### 5. Recommended Text Books and References:

A. Textbook: Beginning ASP.NET 4: in C# and VB, by Imar Spaanjaars

#### B. Other References:

- 1) Murach's ASP.NET 4.6 Web Programming with C# 2015, 6th Edition, by Anne Boehm, Mary Delamater.
- 2) Professional ASP.NET 4.5 in C# and VB, by Christian Wenz, Jason N. Gaylord, Pranav Rastogi, Scott Hanselman, Todd Miranda.



### 3) Lecture Schedule:

Weeks	Topics
Week 1	<b>Introduction</b>
Week 2	<b>ASP.NET Data Access 1:</b> ADO.NET Architecture Advantages of ADO.Net
Week 3	<b>ASP.NET Data Access 2:</b> Disconnected Data Access Architecture ASP.NET Connection String First ASP.NET Database Program
Week 4	<b>ASP.NET Data Providers 1:</b> ASP.NET Connection ASP.NET Sql Server Connection ASP.NET OLEDB Connection ASP.NET ODBC Connection
Week 5	<b>ASP.NET Data Providers 2:</b> ASP.NET Command ASP.NET ExecuteNonQuery ASP.NET ExecuteScalar ASP.NET ExecuteReader
Week 6	<b>ASP.NET Data Providers 2:</b> ASP.NET DataReader ASP.NET DataAdapter



	<b>ASP.NET DataAdapter Commands</b>
<b>Week 7</b>	<b>Midterm Exam</b>
<b>Week 8</b>	<b>ASP.NET Dataset</b>
<b>Week 9</b>	<b>ASP.NET Dataset 1:</b> <b>How to Asp.Net Dataset</b> <b>Find Tables in a Dataset</b>
<b>Week 10</b>	<b>ASP.NET Dataset 2:</b> <b>ASP.NET Dataset row count</b> <b>How to Asp.Net Dynamic Dataset</b> <b>Dataset Column Definition</b>
<b>Week 11</b>	<b>ASP.NET Database Programming</b>
<b>Week 12</b>	<b>ASP.NET Database Programming 1:</b> <b>ASP.NET DBNull Value</b> <b>ASP.NET single quotes</b>
<b>Week 13</b>	<b>ASP.NET Database Programming 2:</b> <b>ASP.NET Stored Procedures</b> <b>ASP.NET Procedure with Parameter</b>
<b>Week 14</b>	<b>ASP.NET Database Programming 3:</b> <b>Range of records from database</b> <b>ASP.NET Image to Database</b>
<b>Week 15</b>	<b>Application Project</b>
	<b>Final Exam</b>