






Advanced Diploma in Web Development (902) – Active Server Pages

<p>Prerequisites: Familiarity with the Web and its terminology.</p>	<p>Corequisites: A pass or higher in Diploma in e-Commerce & Web Design or equivalence.</p>
<p>Aim: This course will explore working with data, both directly from a database and through a tiered application architecture. Candidates will learn how to display, edit, delete, and insert data through a web application using ASP's data controls. Learn how to add extensible site navigation features and discover how to support user accounts and role-level access rights. By the end of this course you'll be able to build a fully functional, well-architected, data-driven ASP web application. Learn the power of server-side programming using Active Server Pages (ASP). This course will cover the basics of ASP, including variables, conditionals, loops, form handling, and building and displaying dynamic pages from the server. Learn how to send data to ASP pages, manage data, and write data out to server-side text files. Other topics include using the split and date functions, as well as the response and request objects. Learn how to write and display values from server-side databases using both DSN and non-DSN sources. Topics include accessing the database, retrieving and displaying information, building tables, using loops, and writing data to the database. Learn to store and retrieve cookies and handle errors on ASP pages.</p>	
<p>Required Materials: Recommended Learning Resources.</p>	<p>Supplementary Materials: Recommended textbooks and lecture notes.</p>
<p>Special Requirements: This is a hands-on course, hence practical use of computers is essential. Requires intensive lab work outside of class time.</p>	
<p>Intended Learning Outcomes:</p> <p>1 Describe server-side technologies. Describe the setup of a Web server.</p> <p>2 Describe how ASP can read and write to a file. Describe the purpose of File System Objects (FSOs).</p> <p>3 Illustrate database driven pages. Describe ActiveX Data Objects (ADO).</p> <p>4 Describe how to edit records in a database. Illustrate how to access a database from an Active Server Page.</p>	<p>Assessment Criteria:</p> <p>1.1 Demonstrate how to use ASP tags 1.2 Illustrate how to create a date script 1.3 Describe the basics of creating ASP pages. 1.4 Describe how ASP works</p> <p>2.1 Describe how to read and write to text files stored on a web server 2.2 Describe how to add data to a text file 2.3 Describe how to write form data to a text file 2.4 Demonstrate how directories are created</p> <p>3.1 Demonstrate how to create scripts used to publish and navigate the content of the database 3.2 Describe how to extract information out of a database into a web page 3.3 Define database connections 3.4 Demonstrate how to create recordsets 3.5 Describe Universal Data Access (UDA) architecture</p> <p>4.1 Identify how to create password protected interface used to edit contents of database 4.2 Demonstrate how create code that automatically iterates through incoming form information and enter it into a database. 4.3 Identify how to add or remove fields to a</p>

<p>5 Describe a shopping cart. Describe how different sessions are tracked.</p>	<p>form or database</p> <p>5.1 Demonstrate how to display items for sale</p> <p>5.2 Demonstrate how to search items by category or keyword</p> <p>5.3 Describe how to add items to the cart</p> <p>5.4 Describe how to edit quantity or remove items</p> <p>5.5 Describe to collect shipping and billing information</p>
<p>6 Describe the processes of sending email from a Web page. Describe ASP objects.</p>	<p>6.1 Define how to use the CDONTS object</p> <p>6.2 Demonstrate how to write email scripts</p> <p>6.3 Describe how built-in objects communicate with a web browser and different users can be distinguished.</p>

Recommended Learning Resources: Active Server Pages .Net

<p>Text Books</p>	<ul style="list-style-type: none"> • ASP .NET Step by Step by Microsoft Press. ISBN-10: 0735612870 • ASP.NET - Kick Start by Stephen Walther. ISBN-10: 0672324768 • Beginning ASP.NET 1.1 E-Commerce: From Novice to Professional by Cristian; Watson, Karli Darie. ISBN-10: 1590592549
<p>Study Manuals</p> 	<p>BCE produced study packs</p>
<p>CD ROM</p> 	<p>Power-point slides</p>
<p>Software</p> 	<p>Active Server Pages .Net</p>