ITT Technical Institute

EC323

Internet Programming II

Onsite Course

SYLLABUS

Credit hours: 4

Contact/Instructional hours: 40 (40 Theory Hours)

Prerequisite(s) and/or Corequisite(s):

Prerequisites: EC322 Internet Programming I or IT204 Scripting and Web Authoring I

Course Description:

Students will be introduced to Microsoft`s Active Server Page, a server-side scripting technology for building Web pages that are both dynamic and interactive. Use of Microsoft`s Visual InterDev™ is also included.

I. MAJOR INSTRUCTIONAL AREAS

A: From Static Pages to Dynamic Content

B: The Fundamentals of ASP

C: Your First ASP Scripts

D: The Fundamentals of VBScript and Server-Side Scripts

E: Object-Oriented Programming and Beginning ASP

F: Beginning ASP — Client–Server Communication

G: Processing and Working with Data

H: Intermediate ASP — Processing Data

I: Installable Components, Objects Redux, and Instant ASP

J: ASP Comes Built with That

K: Getting Help Writing ASP

COURSE OBJECTIVES

Apply distributed computing concepts.

Diagram the roles of client and server.

Define the terms and explain the processes used in Active Server Pages.

State the advantages and disadvantages of developing single-tier, double-tier, and n-tier applications, and give the conditions that would make each the appropriate application.

From a web site, recognize the difference between a client-side and a server-side script, and predict the reason the choice of scripting was made.

Give the rationale for using client-side and server-side scripts.

Create variables using VBScript.

Define and use arrays and collections and event procedures.

Define terms and processes used in VBScript.

Make statements in VBScript.

Create and analyze documentation for code.

Create procedures in your server-side scripts.

Execute scripts using the <script> tag.

Explain how the server interprets scripts.

Apply call-back functions.

Build class using VBScript.

Explain the fundamental concepts of object-oriented programming.

Apply the properties, methods, and events of objects in scripts.

Use the request object.

Use the response object.

Apply the browser capability component.

Define terms used in object-oriented programming.

Discuss the ADO framework.

Work with data in HTML forms.

Use client-side cookies.

Create Active Server Pages that use OLE DB data sources.

Make applications that maintain a site.

Explain the fundamentals of SQL.

Use HTML to create and format reports from a database.

Define terms and processes associated with ADO, HTML, OLE DB, and SQL.

Module V Create pages that effectively make use of the ad rotator, content linking, and counter components of IIS.

Handle code errors.

Explain the pros and cons of using an ASP development tool like InterDev.

Explain the terms and processes associated with Internet Information Server (IIS) and ASP development tools.

TEACHING STRATEGIES

Curriculum is designed to promote a variety of teaching strategies that support the outcomes described in the course objectives and that foster higher cognitive skills. Delivery makes use of various media and delivery tools in the classrooms.

TEXT

Reselman, B. (2000). *Active server pages 3.0 by example*, (Custom ed.) Indianapolis, IN: Que Publishing.

EVALUATION

A.   COURSE REQUIREMENTS

1.   Attendance and Participation
Regular attendance and participation are essential for satisfactory progress in this course.

2.   Completed Assignments
Each student is responsible for completing all assignments on time.

3.   Team Participation
Each student is responsible for participating in team assignments and for completing the delegated task. Each team member must honestly evaluate the contributions by all members of their respective teams.

B.   WEIGHTED VALUES

The final grade will be based on the following weighted values**:**

Grade Categories	Percentage of Final Grade
Assignment	45%
Discussion	15%
Project	25%
Quiz	10%
Final	5%
Total	**100%**

Final grades will be calculated from the percentages earned in class as follows:

A	90 - 100%	4.0
B+	85 - 89%	3.5
B	80 - 84%	3.0
C+	75 - 79%	2.5
C	70 - 74%	2.0
D+	65 - 69%	1.5
D	60 - 64%	1.0
F	<59%	0.0

*Class/Group Participation: Includes class and group participation and cooperation as well as participation in discussion items. This grade will reflect student attendance. Required activities are detailed in this syllabus. The Instructor will give additional individual and group assignments to promote and evaluate objectives

REFERENCES

Adobe Creative Team. <u>Adobe® GoLive® 6.0 Classroom in a Book</u>, 1st ed. Adobe Press, 2002.

<u>Adobe® LiveMotion® 2.0 Classroom in a Book</u>, 1st ed. Adobe Press, 2002.

Brisbin, Shelly. <u>Adobe® GoLive® 6 for Macintosh and Windows: Visual QuickStart Guide</u> 1st ed. Peachpit Press, 2002.

Carlson, David. <u>Modeling XML Applications with UML: Practical e-Business Application</u>. Addison Wesley Professional, 2001.

Cavanaugh, Kim. <u>Fireworks : A Beginner's Guide</u>. NY: McGraw Hill, 2002.

DiNucci, Darcy. <u>Adobe® Master Class: Web Site Redesigns</u>, 1/e. Adobe Press, 2002.

Gottleber, Timothy T. and Timothy Trainor. <u>Even More Excellent HTML With Reference Guide</u>, 2nd ed. NY, NY: McGraw Hill, 2003.

<u>More Excellent HTML: With Introduction to Javascript With Student CD ROM</u>. NY: McGraw Hill, 2000.

Holmes, Merlyn. <u>Web Usability and Navigation: A Beginner's Guide</u>. NY: McGrawHill: 2002.

Kochmer, Casey and Erica Frandsen. <u>JSP™ and XML: Integrating XML and Web Services in Your JSP Application</u>. Addison Wesley Professional, 2002.

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McManus, Jeffrey and Chris Kinsman. <u>Visual Basic® .NET Developer's Guide to ASP .NET, XML and ADO.NET</u>. Addison Wesley Professional, 2002.

Meadhra, Michael. <u>How To Do Everything With Dreamweaver ®</u>, 2nd ed. NY: McGraw Hill, 2002.

Miller, Marc D. and Thomas C. Padgett. Web Design Using Dreamweaver. NY, NY:McGraw Hill, 2003.

Pence, James H. <u>Cascading Style Sheets: A Beginner's Guide</u>. NY, NY: McGraw Hill, 2002.

Richter, Jeffrey. <u>Applied Microsoft .NET Framework Programming</u>. Microsoft Press, 2002.

Sahlin, Doug and David Crowder. <u>Fireworks ® : The Complete Reference</u>. NY: McGraw Hill, 2002.

Seely, Scott, Eric Smith and Deon Schaffer. <u>Creating and Consuming Web Services in Visual Basic</u>. Addison Wesley Professional, 2002.

Slagell, Mark. <u>Sams Teach Yourself Ruby in 21 Days</u>. Sams, 2002.

Trippe, Bill and Kate Binder. <u>SVG Design Classroom: Using Scalable Vector Graphics In Next-Generation Web Sites</u>. NY, NY: McGraw Hill, 2002.

Wahlin, Dan. <u>XML for ASP.NET Developers</u>. Sams, 2002.

ELECTRONIC RESOURCES

ITT Technical Institute Virtual Library
http://library.itt-tech.edu/
Learn the net.com
http://www.learnthenet.com