
Building Dynamic Web sites

USING PHP, MySQL & JavaScript

COURSE DESCRIPTION:

This course introduces students with most of the relevant programming languages and techniques of professional web development and web engineering, e. g. Scripting and markup languages HTML, XHTML, XML, PHP, Java scripts, SQL data manipulation via web.

OBJECTIVES:

Today's websites are increasingly dynamic. Pages are no longer static HTML files but instead generated by scripts and database calls. User interfaces are more seamless, with technologies like Ajax replacing traditional page reloads. This course teaches students how to build dynamic websites with Ajax and with Linux, Apache, MySQL, and PHP (LAMP), one of today's most popular frameworks. Students learn how to structure pages with XHTML and CSS, how to program in JavaScript and PHP, how to configure Apache and MySQL, how to design and query databases with SQL, how to use Ajax with both XML and JSON, and how to build mashups. The course explores issues of security, scalability, and cross/browser support and also discusses enterprise/level deployments of websites, including third/party hosting, virtualization and load balancing.

Admission Requirements:

- Course Fee
- 3 copies PP size photographs
- Photocopy of National ID card/ Passport/ Birth Certificate
- Photocopy of AIUB ID card [if AIUB alumni]

WCSD-301: Building dynamic website using PHP, MySQL, JavaScript

Course Instructor's Profile:

Debajyoti Karmaker (Jitu)

- Assistant Professor , Department of Computer Science, AMERICAN INTERNATIONAL UNIVERSITY- BANGLADESH (AIUB)
- Part-time instructor, CONTINUING EDUCATION CENTER- AIUB

Course Fee: **BDT 12,000**

(10% discount for all AIUB students)

TOPICS TO BE COVERED:

TOPICS	Specific Objective(s)	Hours
HTML & HTTP	Introduction, Elements, Attributes, Table, List, Forms, Formatting, Styles, Image, Hyperlinks, Head, Meta, Scripts, Layout, Fonts and URL- encode.	3
CSS	CSS Introduction, CSS Syntax, Padding, Border, Margin, Text, Font, Text, List, color, background	3
PHP Basics	<ul style="list-style-type: none"> A. How PHP Works B. The php.ini File C. Basic PHP Syntax <ul style="list-style-type: none"> 1) PHP Tags 2) PHP Statements and Whitespace 3) Comments 4) PHP Functions 5) Hello World! D. Variables E. Variable Types <ul style="list-style-type: none"> 1) Variable Names 2) Type Strength 3) Hello Variables! 4) Variable Scope 5) Superglobals 6) Constants 7) Variable-Testing and Manipulation Functions F. PHP Operators G. Creating Dynamic Pages H. Single Quotes vs. Double Quotes 	3
Flow Control	<ul style="list-style-type: none"> A. Conditional Processing <ul style="list-style-type: none"> 1) If Conditions B. Loops <ul style="list-style-type: none"> 1) while 2) do...while 3) for 4) break and continue 	3
Arrays	<ul style="list-style-type: none"> A. Enumerated Arrays <ul style="list-style-type: none"> 1) Initializing Arrays 2) Appending to an Array 3) Reading from Arrays 4) Looping through Arrays B. Associative Arrays <ul style="list-style-type: none"> 1) Initializing Associative Arrays 2) Reading from Associative Arrays 3) Looping through Associative Arrays 4) Superglobal Arrays C. Two-dimensional Arrays <ul style="list-style-type: none"> 1) Reading from Two-dimensional Arrays 2) Looping through Two-dimensional Arrays D. Array Manipulation Functions 	3
PHP and HTML Forms	<ul style="list-style-type: none"> A. HTML Forms <ul style="list-style-type: none"> 1) How HTML Forms Work 2) A Sample HTML Form 3) Form Variables 	3
Session Control and Cookies	<ul style="list-style-type: none"> A. Sessions <ul style="list-style-type: none"> 1) Configuring Sessions 2) Session Functions B. Cookies 	3
File System Management	<ul style="list-style-type: none"> A. Opening a File <ul style="list-style-type: none"> 1) fopen() B. Reading from a File <ul style="list-style-type: none"> 1) fgets() C. Writing to a File <ul style="list-style-type: none"> 1) fwrite() D. File Locking <ul style="list-style-type: none"> 1) flock() E. Uploading Files via an HTML Form 	3

	<ul style="list-style-type: none"> F. Getting File Information G. More File Functions H. Directory Functions <ul style="list-style-type: none"> 1) Getting a Directory Listing 	
Reusing Code and Writing Functions	<ul style="list-style-type: none"> A. Including Files <ul style="list-style-type: none"> 1) require 2) require_once 3) auto_prepend_file and auto_append_file B. User Functions <ul style="list-style-type: none"> 1) Defining and Calling Functions 2) Default Values 3) Variable Scope 4) By Reference vs. By Value C. Form Processing <ul style="list-style-type: none"> 5) Code Organization 	3
MySql	<ul style="list-style-type: none"> A. Introduction to the MySQL Database B. Some Basics <ul style="list-style-type: none"> 1) Comments 2) Whitespace and Semi-colons 3) Case Sensitivity C. SELECTing All Columns in All Rows D. SELECTing Specific Columns E. Sorting Records <ul style="list-style-type: none"> 1) Sorting By a Single Column 2) Sorting By Multiple Columns 3) Sorting By Column Position 4) Ascending and Descending Sorts F. The WHERE Clause and Operator Symbols <ul style="list-style-type: none"> 1) Checking for Equality 2) Checking for Inequality 3) Checking for Greater or Less Than 4) Checking for NULL 5) WHERE and ORDER BY G. The WHERE Clause and Operator Words <ul style="list-style-type: none"> 1) The BETWEEN Operator 2) The IN Operator 3) The LIKE Operator 4) The NOT Operator H. Checking Multiple Conditions <ul style="list-style-type: none"> 1) AND 2) OR 3) Order of Evaluation 	6
Subqueries, Joins and Unions	<ul style="list-style-type: none"> A. Subqueries B. Joins <ul style="list-style-type: none"> 1) Table Aliases 2) Multi-table Joins C. Outer Joins D. Unions <ul style="list-style-type: none"> 1) UNION ALL 2) UNION Rules 	3
Inserting, Updating and Deleting Records	<ul style="list-style-type: none"> A. INSERT B. UPDATE C. DELETE 	3
Java script	<ul style="list-style-type: none"> A. JS Introduction B. JS Output C. JS Statements D. JS Comments E. JS Variables F. JS Data Types G. JS Objects H. JS Functions A. JS Operators B. JS Comparisons C. JS Conditions D. JS Switch 	6

	<ul style="list-style-type: none"> E. JS Loop For F. JS Loop While G. JS Breaks H. JS Errors I. JS Validation 	
JS HTML DOM	<ul style="list-style-type: none"> A. DOM Intro B. DOM HTML C. DOM CSS D. DOM Events E. DOM Nodes 	1.5
JS Objects	<ul style="list-style-type: none"> A. JS Object B. JS Number C. JS String D. JS Date E. JS Array F. JS Boolean G. JS Math H. JS RegExp 	1.5
XML	<ul style="list-style-type: none"> A. XML Introduction B. XML How to use C. XML Tree D. XML Syntax E. XML Elements F. XML Attributes G. XML Validation H. XML Validator I. XML Viewing J. XML CSS K. XML XSLT 	6
AJAX	<ul style="list-style-type: none"> A. AJAX Intro B. AJAX Example C. AJAX XMLHttpRequest D. XHR Create Object E. XHR Request F. XHR Response G. XHR readyState H. AJAX Advanced I. AJAX PHP J. AJAX Database K. AJAX XML File 	3
MVC	<ul style="list-style-type: none"> A. Model B. View C. Controller D. Codeigniter 	3
TOTAL		60

For More Information:

AIUB Continuing Education Center

Email: ce@aiub.edu,

Web: cec.aiub.edu

Address: House 55/B, Road 21,
Kemal Ataturk Avenue, Banani, Dhaka-1213

Contact: 9894641, 9886116, Ext-406

WebWHEEL

