



Level 6 Advanced Diploma in Web Development (902)
153 Credits



Unit: PhP	Guided Learning Hours: 240
Exam Paper No.: 5	Number of Credits: 24
Prerequisites: Familiarity with the Web and its terminology.	Corequisites: A Pass or better in Diploma in e-Commerce & Web Design or equivalence.
<p>Aim: Learners will learn the programming aspect of PhP, variables, operators, hashes, arrays, and control structures. PhP hypertext preprocessor is a server side programming language that is embedded into documents such as HTML files, which may contain DHTML, JavaScript, and Java. PHP is great for creating pages on the fly and can be used to make guest books, message boards, and other interactive pages. This unit introduce learners to PhP and MySQL to develop dynamic web sites. Topics will include conditionals, functions, form processing, arrays, and loops. Learners create a dynamic web site by developing database tables in MySQL, connecting to them using PhP and adding content to web pages.</p>	
Required Materials: Student study materials	Supplementary Materials: Recommended textbooks and lecture notes.
<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 PHP implementation; the basics of PhP and basic rules of PHP for naming files in order to get a PHP script working.</p> <p>2 Server-side scripting web server technology which a user's request is verified by running a script directly on the web server and dynamic web pages.</p> <p>3 User interaction using forms and cookies and how to interact with the user, through radio buttons, with the Request.Form.</p> <p>4 Files, strings, mail functions and the use of the PHP mail function to send email.</p>	<p>Assessment Criteria:</p> <p>1.1 Demonstrate how to install PhP for Windows</p> <p>1.2 Demonstrate how to test PhP installation</p> <p>1.3 Describe open-source technology</p> <p>1.4 Describe the PhP application</p> <p>1.5 Define PHP and the advantages of using PHP</p> <p>2.1 Explain some of the ultra-basics of PhP</p> <p>2.2 Demonstrate how to output text to a browser from the script</p> <p>2.3 Describe how variables work</p> <p>2.4 Describe how to pass variables through a Form or links on a page to a script</p> <p>2.5 Define PhP string processing and regular expressions.</p> <p>2.6 Describe client/server environment variables.</p> <p>3.1 Define Forms in PhP</p> <p>3.2 Describe Form validation</p> <p>3.3 Define a cookie</p> <p>3.4 Describe how PhP dynamically changes its HTML output in reaction to user input</p> <p>3.5 Describe how a cookie records user preferences.</p> <p>3.6 Describe the purpose of cookies on the server-side</p> <p>3.7 Demonstrate how these forms are source of interaction between website and its users</p> <p>4.1 Describe how to open and access files</p> <p>4.2 Describe how to manipulate strings and write data to a file.</p>

<p>5 How templates provide an easy way to creating many pages with the same structure and layout, but with varying content.</p> <p>6 Integrating a web site with databases and the importance of web database programming in creating a professional database driven website for a business.</p> <p>7 Understand using Objects in PHP Scripts; creating modular code and building object oriented PHP apps.</p>	<p>4.3 Describe the quick and easy mail() function</p> <p>4.4 Describe the process of connecting to a database</p> <p>5.1 Define a template</p> <p>5.2 Describe the concepts of a modular site</p> <p>5.3 Describe how creating a template for a site greatly reduces the amount of overhead it takes to create a new page.</p> <p>5.4 Demonstrate how to create dynamic template</p> <p>6.1 Describe how to use Access or MySQL databases</p> <p>6.2 Describe how PhP connects to a database</p> <p>6.3 Demonstrate how to create dynamic pages generated from content stored in a database.</p> <p>6.4 Describe how to create password checking scripts.</p> <p>6.5 Define Relational Database and advantages of databases over files</p> <p>6.6 Demonstrate how to store, retrieve, and update data in a MySQL database</p> <p>7.1 Be able to create syntax for instantiating an object</p> <p>7.2 Demonstrate working with methods and implementing arguments</p> <p>7.3 Demonstrate connecting to the MySQL database server using object-oriented style</p> <p>7.4 Be able to instantiate and close a MySQL Database Object</p> <p>7.5 Demonstrate creating a Class definition</p> <p>7.6 Explain error handling and debugging</p>
<p>Methods of Evaluation: A 3-hour essay written paper with 5 questions, each carrying 20 marks. Candidates are required to answer all questions. Candidates also undertake coursework/project in PhP with a weighting of 100%.</p>	

Recommended Learning Resources: PhP

<p>Text Books</p>	<ul style="list-style-type: none"> • PHP and MySQL Web Development, by Luke Welling and Laura Thomson. ISBN-10: 0672326728 • Programming PHP by Rasmus Lerdorf, Kevin Tatroe and Peter MacIntyre. ISBN-10: 0596006810
<p>Study Manuals</p> 	<p>BCE produced study packs</p>
<p>CD ROM</p> 	<p>Power-point slides</p>
<p>Software</p> 	<p>PhP</p>