Advanced Diploma in Web Development (902) - PhP

Prerequisites: Familiarity with the Web and its terminology.	**Corequisites:** A pass or higher in Diploma in e-Commerce & Web Design or equivalence.
Aim: This course introduce candidates to PHP and MySQL to develop dynamic web sites. Topics will include conditionals, functions, form processing, arrays, and loops. Candidates create a dynamic web site by developing database tables in MySQL, connecting to them using PHP and adding content to web pages.	
Required Materials: Student study materials	**Supplementary Materials:** Recommended textbooks and lecture notes.
Special Requirements: This is a hands-on course, hence practical use of computers is essential. Requires intensive lab work outside of class time.	

Intended Learning Outcomes:	Assessment Criteria:	
1 Define PhP implementation. Describe the basics of PhP.	1.1	Demonstrate how to install PhP for Windows
	1.2	Demonstrate how to test PhP installation
	1.3	Describe open-source technology
	1.4	Describe the PhP application
2 Describe server-side scripting. Define dynamic web pages.	2.1	Familiarise with some of the ultra-basics of PhP
	2.2	Demonstrate how to output text to a browser from the script
	2.3	Describe how variables work
	2.4	Describe how to pass variables through a form or links on a page to a script
	2.5	Define PhP string processing and regular expressions.
	2.6	Describe client/server environment variables.
3 Describe user interaction using forms and cookies	3.1	Define forms in PhP
	3.2	Describe form validation
	3.3	Define a cookie
	3.4	Describe how PhP dynamically changes its HTML output in reaction to user input
	3.5	Describe how a cookie records user preferences.
	3.6	Describe the purpose of cookies on the server-side
4 Describe files, strings and mail functions in PhP.	4.1	Describe how to open and access files
	4.2	Manipulate strings and write data to a file.
	4.3	Analyse the quick and easy mail() function
	4.4	Describe the process of connecting to a database
5 Outline how templates provide an easy way to creating many pages with the same structure and layout, but with varying content.	5.1	Define a template
	5.2	Describe the concepts of a modular site
	5.3	Describe how creating a template for a site greatly reduces the amount of

		overhead it takes to create a new page.
	5.4	Demonstrate how to create dynamic template
6 Demonstrate how to integrate a web site with databases.	6.1	Describe how to use Access or MySQL databases
	6.2	Describe how PhP connects to a database
	6.3	Demonstrate how to create dynamic pages generated from content stored in a database.
	6.4	Describe how to create password checking scripts.

Recommended Learning Resources: PhP

Text Books	• 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
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	PhP