UNIVERSITI TEKNOLOGI MARA

CSC443: WEB PROGRAMMING

Course Name (English)	WEB PROGRAMMING `APPROVED`
Course Code	CSC443

MQF Credit	3

Course Description	This course is intended to introduce students to an advanced web development course designed to expose a new technology, which relates to create dynamic web based applications. Students will use PHP and MySQL to create web-based applications.

Transferable Skills	Demonstrate ability to analyse issues/problems from multiple angles to design and develop working PHP web pages and make suggestions.

Teaching Methodologies	Lectures, Lab Work, Discussion

CLO	CLO1 Identify the concept of web Programming CLO2 Construct practical skills in web application development CLO3 Identify scientific skills in web application development CLO4 Demonstrate teamwork skills in the development of web application projects.

Pre-Requisite Courses	No course recommendations

Topics
1. Introduction 1.1) Web application basics 1.2) Web protocols 1.3) HTML 1.4) Javascript 1.5) Dynamic client and servers
2. Server Side Installation 2.1) Apache, PHP and MySQL 2.2) PHP scripts and parser 2.3) MySQL Server 2.4) Installation
3. Server Side Scripting 1 3.1) PHP scripting 3.2) Basic scripting 3.3) Decision structure 3.4) Iteration control structure 3.5) User define function
4. Server Side Scripting 2 4.1) Testing and configuration 4.2) Redirecting and formatting 4.3) Validating, encoding and decoding 4.4) String manipulation
5. Server Side Scripting 3 5.1) Array 5.2) Multidimensional Array 5.3) Function without parameter

6. Working with Data in PHP 6.1) Basic MySQL 6.2) RDBMS 6.3) MySQL with PHP 6.4) Execute queries
7. Session and Cookies 7.1) HTTP cookies 7.2) PHP session
8. Object Oriented Programming with PHP 8.1) Object vs Class 8.2) Class construction

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Lab Assignment 1 (10%) to assess the programing skill in develop web application	10%	CLO2
	Assignment	Lab Assignment 2 (10%) to assess the programing skill in develop web application	10%	CLO2
	Assignment	Lab Assignment -2 (10%) to assess the programing skill in develop web application	10%	CLO2
	Final Test	Written test 2 (20%) as final assessment to assess the scientific skill in web development	20%	CLO3
	Group Project	Group Project (40%) to assess the teamwork skill in development web application	40%	CLO4
	Test	Written test 1 (10%) to assess the knowledge skill in web development	10%	CLO1

Reading List	Recommended Text	**Kevin Tatroe and Peter MacIntyre 2020, *Programming PHP, 4th Edition Creating Dynamic Web Pages*, O'Reilly Media, Inc. Champaign, IL 61820, United States [ISBN: 7078277019]**
	Reference Book Resources	**Josh Lockhart 2015, *Modern PHP*, O'Reilly Media [ISBN: 1491905018]**
		Alexandru Busuioc,David Carr,Markus Gray,Vijay Joshi,Mark McCollum,Bart McLeod,M A Hossain Tonu 2019, *The PHP Workshop*, Packt Publishing Ltd Birmingham, United Kingdom [ISBN: 9781838647285]
		Luke Welling,Laura Thomson 2015, *PHP and MySQL Web Development*, Addison-Wesley Professional New Jersey, United States [ISBN: 0321833899]
		Robin Nixon 2018, *Learning PHP, MySQL & JavaScript*, O'Reilly Media Sebastopol, United States [ISBN: 1491978910]
		Richard Blum 2018, *PHP, MySQL, & JavaScript All-in-One For Dummies*, John Wiley & Sons New York, United States [ISBN: 1119468388]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	