**COURSE CODE**: CSC574

**COURSE NAME: DYNAMIC WEB APPLICATION DEVELOPMENT** 

**COURSE DESCRIPTION:** The course introduces the students to web programming. It covers mark-up

language, client-side scripting, and server-side scripting.

LECTURER: NUR AINA KHADIJAH ADNAN (T1-03, CS2 FSKM)

## **Course Learning Outcomes (CLO)**

At the end of the course, students should be able to:

- 1. Construct practical skills in dynamic web application development (P3)
- 2. Identify scientific skills in dynamic web application development (C4)
- 3. Display autonomous learning dynamic web application development (A4)

Week	Topics	F2F	Assessment
1	Topic 1: Introduction to the Internet		
	History of the Internet		
	Uses of the Internet		
	WWW and other Internet Application		
_	Intranet Application		
2	Topic 2: Introduction to HTML		
	Overview		Lab Assignment
	Effective HTML Page		1
	Elements, Attributes, Character References &		(HTML)
	Comments		
	Lengths, Dates & Times		
3-4	3. HTML Structure I		
	HTML Version Information		
	The Document Head & Body		
	HTML Structure Bodies		
	HTML Structure: Text		
	HTML Structure: List		
	HTML Structure: Table		Lab Assignment
5	4. HTML Structure II		2
	<ul> <li>Links, Objects &amp; Images</li> </ul>		(HTML + CSS)
	Alignment & Font Style		
	• Forms		
6	Topic 5. Introduction to Client-Side Scripting		
	<ul><li>Variable &amp; Syntax</li></ul>		Lab Assignment
	<ul> <li>Logical structures</li> </ul>		3
	<ul><li>Looping</li></ul>		(HTML +
	<ul> <li>User-defined Functions</li> </ul>		JavaScript)

Working with Web Pages     Properties  Topic 6. Advanced JavaScript Features     Functions     String Handling     Built-in Objects and Methods     Arrays     Form Handling     Using innerHTML  Written Test (Week 7)  Topic 7. Introduction To Server-Side Scripting (PHP)     Server-Side Scripting (Decision structure, Iteration control structure, User-defined function)     Server-Side Scripting (Testing and configuration, Redirecting and formatting)     Server-Side Scripting (Array, Multidimensional Array)  Server-Side Scripting (Array, Multidimensional (PHP + MySQL)			
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<ul> <li>Functions</li> <li>String Handling</li> <li>Built-in Objects and Methods</li> <li>Arrays</li> <li>Form Handling</li> <li>Using innerHTML</li> <li>Written Test (Week 7)</li> <li>8-10 Topic 7. Introduction To Server-Side Scripting (PHP)</li> <li>Server-Side Scripting (Decision structure, Iteration control structure, User-defined function)</li> <li>Server-Side Scripting (Testing and configuration, Redirecting and formatting)</li> <li>Server-Side Scripting (Array, Multidimensional</li> </ul>		Properties	
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Form Handling     Using innerHTML  Written Test (Week 7)  8-10  Topic 7. Introduction To Server-Side Scripting (PHP)     Server-Side Scripting (Decision structure, Iteration control structure, User-defined function)     Server-Side Scripting (Testing and configuration, Redirecting and formatting)     Server-Side Scripting (Array, Multidimensional  PHP + MySQL)		Built-in Objects and Methods	
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Written Test (Week 7)  8-10 Topic 7. Introduction To Server-Side Scripting (PHP)  • Server-Side Scripting (Decision structure, Iteration control structure, User-defined function)  • Server-Side Scripting (Testing and configuration, Redirecting and formatting)  • Server-Side Scripting (Array, Multidimensional  Group Project (HTML + PHP + MySQL)		Form Handling	
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<ul> <li>Iteration control structure, User-defined function)</li> <li>Server-Side Scripting (Testing and configuration, Redirecting and formatting)</li> <li>Server-Side Scripting (Array, Multidimensional</li> </ul>	8-10	Topic 7. Introduction To Server-Side Scripting (PHP)	
Redirecting and formatting)  • Server-Side Scripting (Array, Multidimensional    Cab Assignment   4   4   (PHP + MySQL)			,
Server-Side Scripting (Array, Multidimensional (PHP + MySQL)		. 0 (	
Allay)		<ul> <li>Server-Side Scripting (Array, Multidimensional Array)</li> </ul>	
11-13 Topic 8. Working with Data in PHP	11-13	Topic 8. Working with Data in PHP	
Basic MySQL		Basic MySQL	
• RDBMS		• RDBMS	
MySQL with PHP		MySQL with PHP	
Execute queries		Execute queries	
Session and Cookies		Session and Cookies	
13 Project presentation	13	Project presentation	
14 Written Test (Week 14)	14	Written Test (Week 14)	

Continuous 100.00%

Assessment: Assignments - 40% out of 100 on Week 4-10. Passing Mark(s): 50

Written (Lab) Assignments, CLO: 1, 2

Group Project - 30% out of 50 on Week 12. Passing Mark(s): 25

1 Group Project and Presentation, CLO: 3

Test - 30% out of 50 on Week 13. Passing Mark(s): 25

## **Recommended Text**

- 1. Mike McGrath, HTML, CSS and JavaScript in Easy Steps, Special Edition, In Easy Steps Limited, 2020, ISBN:184078878X
- 2. Julie C. Meloni, Jennifer Kyrnin, HTML, CSS, and JavaScript All in One: Covering HTML5, CSS3, and ES6, SamsTeach Yourself, 3rd Edition, Pearson Education (US), 2019, ISBN: 0672338084
- 3. Robin Nixon, Learning PHP, MySQL and JavaScript, New Edition, O'Reilly Media, Inc, USA, 2021, ISBN: 1492093823
- 4. Richard Blum, PHP, MySQL, & JavaScript All-in-One For Dummies, John Wiley & Sons, 2018, ISBN: 1119468388

Larry Ullman, PHP and MySQL for Dynamic Web Sites, 5th Edition, Pearson Press Publications, 2017, ISBN:0134301846