



Northern Technical University
Institute of Management - Nineveh
Department of Computer Systems
Technologies



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Advance Web Design		Module Delivery	
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	CST205			
ECTS Credits				
SWL (hr/sem)				
Module Level	2	Semester of Delivery		2
Administering Department		College	Computer Systems Department	
Module Leader	Nawar A. Sultan		e-mail	nawarabd@ntu.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Master's degree in Computer Science	
Module Tutor		e-mail		
Peer Reviewer Name		e-mail		
Scientific Committee Approval Date	09/04/2024	Version Number		

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Students are expected to have a basic understanding of HTML, CSS, and JavaScript. Prior exposure to any programming language is beneficial but not required.	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

اهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims اهداف المادة الدراسية</p>	<p>This module provides a comprehensive exploration of advanced web design principles, focusing on the use of PHP and MySQL to create dynamic and interactive websites. Students will learn to develop web applications that can process and manage data effectively, utilizing the full potential of server-side programming and database integration. The module covers both theoretical concepts and practical skills, preparing students for real-world web development tasks.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Upon successful completion of this module, students will be able to:</p> <ul style="list-style-type: none"> • Understand the principles of dynamic web design and the roles of PHP and MySQL in web development. • Develop and deploy PHP scripts that interact with MySQL databases to create interactive, data-driven web applications. • Apply security measures to protect data and ensure the integrity of web applications. • Utilize advanced PHP and MySQL features to optimize website performance and user experience. • Integrate third-party APIs and services to enhance the functionality of web applications.
<p>Indicative Contents المحتويات الإرشادية</p>	<p>The indicative contents for the "Advanced Web Design" module provide a structured overview of the topics and concepts that will be covered throughout the course. This framework is essential for guiding students through the advanced aspects of web development, ensuring they gain a thorough understanding of both theoretical and practical applications.</p>



Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>In the "Advanced Web Design" module, implementing effective teaching and learning strategies is crucial to engage students and enhance their understanding of complex concepts. Here's an outline of various strategies that could be used:</p> <ul style="list-style-type: none"> • Interactive Lectures • Laboratory Sessions • Tutorials and Problem-Solving Sessions • Independent Study • Continuous Assessment and Feedback • Collaborative Projects • Engagement with the Industry • Use of Online Learning Platforms
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Student Workload (SWL)

Structured SWL (h/sem)	16	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	-	Unstructured SWL (h/w)	
Total SWL (h/sem)	44		



Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	20% (20)		LO #1, 2, 5 and 6
	Assignments	2	20% (20)		LO # 2, 4, 5 and 6
Summative assessment	Midterm Exam	2hr	10% (10)		LO # 1-8
	Final Exam	3hr	50% (50)		All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

	Material Covered
Week 1	<ul style="list-style-type: none"> Introduction to PHP and MySQL; setting up the development environment; basic syntax and programming constructs.
Week 2	<ul style="list-style-type: none"> The local server and how to install it, the operation of the server, the first application in PHP, including PHP code in web pages, including comments in the code.
Week 3	<ul style="list-style-type: none"> Data types: logical values, integer values, and complex data.
Week 4	<ul style="list-style-type: none"> Arrays, variables, expressions
Week 5	<ul style="list-style-type: none"> Assignment or assignment operators, logical, equality
Week 6	<ul style="list-style-type: none"> Control rules, condition instructions, if statements, switch statements
Week 7	<ul style="list-style-type: none"> Looping or repeating instructions,
Week 8	<ul style="list-style-type: none"> While statement, do while statement, For statement
Week 9	<ul style="list-style-type: none"> Functions
Week 10	<ul style="list-style-type: none"> Arrays
Week 11	<ul style="list-style-type: none"> Input forms, text fields, options, submit button, drop-down list, text area, post, get function
Week 12	<ul style="list-style-type: none"> Computational application using functions and forms, PHPMyAdminAnd



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	MySQL, PhpMyAdmin operations
Week 13 - 14	<ul style="list-style-type: none"> • Create a database, create a table, add data, modify and update, delete data, connect PHP with Mysql, enter data, extract data, modify and delete data.
Week 15	<ul style="list-style-type: none"> • The difference between cookies and session: uploading the site to the server and launching it.

Learning and Teaching Resources

مصادر التعلم والندريس

		Available in the Library?
Required Texts	https://www.w3schools.com https://www.sololearn.com/en/	Online
Recommended Texts		
Websites		



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Grading Scheme

مخطط الدرجات

Group	Grade		Marks (%)	Definition
Success Group (50 - 100)	A - Excellent		90 - 100	Outstanding Performance
	B - Very Good		80 - 89	Above average with some errors
	C - Good		70 - 79	Sound work with notable errors
	D - Satisfactory		60 - 69	Fair but with major shortcomings
	E - Sufficient		50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail		(45-49)	More work required but credit awarded
	F – Fail		(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54). The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.