



Ministry of Higher Education and
Scientific Research - Iraq
University of Technology-Iraq
Department of Computer Science
Networks Management Branch



MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	WEB DESIGN		Module Delivery
Module Type	CORE		Theory Lecture Lab Tutorial
Module Code	WEDE224		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	2	Semester of Delivery	
Administering Department	Department of Computer Science	College	Computer Science
Module Leader	Saif Bashar Neamah	e-mail	saif.b.neamah@uotechnology.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Saif Bashar Neamah	e-mail	saif.b.neamah@uotechnology.edu.iq
Peer Reviewer Name		e-mail	
Review Committee Approval	01/06/2024	Version Number	1.0

Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		Semester	
Co-requisites module	WEPR321	Semester	6

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p style="text-align: center;">Module Aims أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> 1. Introduce fundamental concepts: The module aims to provide students with a solid understanding of the foundational concepts and principles of web design. This includes topics such as client-server architecture, web development technologies, web standards, and protocols. 2. Foster design and usability knowledge: The module aims to cultivate an understanding of user-centered design principles and usability considerations in web development. This involves teaching students about user experience (UX) design, accessibility, responsive design, and information architecture. 3. Encourage collaboration and project management skills: The module aims to foster teamwork and collaboration skills necessary for web projects. Students may work in groups to complete web development projects, enhancing their ability to communicate effectively, manage tasks, and meet project deadlines. 4. Stay updated with industry trends: The module aims to expose students to current trends, emerging technologies, and industry practices in web design. This includes topics such as HTML5, CSS3, responsive design frameworks like Bootstrap, and JavaScript language.
<p style="text-align: center;">Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Understanding Web design fundamentals: Students will gain knowledge of the fundamental components of design. 2. Web Development Technologies: Students will learn various web development technologies and frameworks, such as HTML, CSS, JavaScript, and popular libraries like React or Vue.js or Angular. They will acquire the skills needed to build interactive and dynamic web pages. 3. Web Design Principles: Students will be introduced to the principles of user-centered design, including user experience (UX) and user interface (UI) design concepts. They will learn how to create visually appealing and user-friendly web interfaces. 4. Web Performance Optimization: Students will learn techniques for optimizing web application performance, including minimizing load times, reducing file sizes. They will understand the importance of website speed and performance for user experience and search engine rankings. 5. Web Accessibility: Students will gain an understanding of web accessibility standards and guidelines, ensuring that web applications are inclusive and usable by individuals with disabilities. They will learn techniques to improve accessibility and compliance with accessibility regulations. 6. Testing and Debugging: Students will learn testing strategies and techniques for web applications, including unit testing, integration testing, and debugging. They will understand the importance of testing for ensuring the quality and reliability of web applications.

<p>Indicative Contents المحتويات الإرشادية</p>	<p>Here are the indicative contents of this model:</p> <ol style="list-style-type: none"> 1. Introduction to the Web 2. Web development terminologies 3. Website structure 4. HTML basic tags 5. HTML semantic tags 6. Styling with CSS 7. Fundamentals of JavaScript 8. JS libraries 9. Front-end frameworks 10. Bootstrap for responsive design 11. Vue.js fundamentals 12. Building a portfolio website
<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<ol style="list-style-type: none"> 1. Lectures: Lectures serve as the foundation for delivering theoretical concepts, principles, and frameworks of web engineering. Instructors can use multimedia presentations, demonstrations, and real-world examples to engage students and facilitate understanding. 2. Case Studies: Presenting case studies of successful web applications or notable web engineering projects can provide valuable insights into industry practices, challenges, and innovative solutions. Analyzing these case studies can help students understand the practical implications of web engineering concepts. 3. Group Discussions and Debates: Encouraging group discussions and debates on web engineering topics can foster critical thinking, collaboration, and communication skills. Students can explore different perspectives, exchange ideas, and debate emerging trends, ethical considerations, and best practices in web engineering. 4. Online Resources and Tutorials: Providing students with access to online resources, tutorials, and learning platforms can supplement their understanding of web engineering concepts. These resources can include interactive websites, video tutorials, coding exercises, and online forums for discussing and solving problems. 5. Assessments and Feedback: Regular assessments, such as quizzes, assignments, and exams, help gauge students' understanding and progress. Constructive feedback from instructors on their work can guide students in improving their skills and knowledge. 6. Continuous Learning and Professional Development: Encouraging students to stay updated with the latest advancements in web engineering and providing resources for self-study can foster a culture of continuous learning. Promoting participation in workshops, conferences, and online courses can help students develop their professional skills and broaden their knowledge.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	Continuous	LO # 6 and 7
	Assignments	2	10% (10)	Continuous	LO # 6 and 7
	Projects / Lab.	2			
	Report	1	15%(15)	12	LO # 2, 3 and 5
Summative assessment	Midterm Exam	2hr	15% (15)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	LO # 1-7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Web introduction and terminologies
Week 2	Website structure and conventions
Week 3	Web development fundamentals
Week 4	HTML fundamental tags
Week 5	HTML5 new tags and semantic tags
Week 6	Styling with CSS
Week 7	Fonts and Colors and Selectors
Week 8	Forms in HTML
Week 9	Fundamentals of JavaScript
Week 10	JavaScript Libraries

Week 11	Responsive Design
Week 12	Bootstrap intro
Week 13	Bootstrap Components
Week 14	Vue.js Fundamentals
Week 15	Portfolio website Project
Week 16	Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	IDE intro, website structure, web page structure
Week 2	HTML text, formatting, semantic, links
Week 3	HTML attributes
Week 4	HTML lists, tables
Week 5	HTML multimedia tags
Week 6	HTML forms
Week 7	CSS inline, internal, external
Week 8	CSS selectors
Week 9	CSS attributes
Week 10	JavaScript fundamentals, calculator program
Week 11	Bootstrap fundamentals, grid system
Week 12	Bootstrap components
Week 13	Vue.js fundamentals
Week 14	Vue.js components
Week 15	Portfolio Project

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Learning Web Design, Jennifer Robbins, O'Reilly, 2012	No
Recommended Texts		
Websites	https://www.w3schools.com/	

APPENDIX
GRADING SCHEME
مخطط الدرجات

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

Note:

NB 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.