## MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	S		Modu	le Delivery			
Module Type				⊠ Theory			
Module Code					<ul><li>☑ Lecture</li><li>☑ Lab</li></ul>		
ECTS Credits	6			☐ Tutorial			
SWL (hr/sem)	150				- ⊠ Practical □ Seminar		
Module Level		2	Semester o	f Delivery		1	
Administering Department		CS	College	Computer Science			
Module Leader	م.م اسیل جاسم محمد Ass.Lec Aseel Jasim		e-mail				
Module Leader's Acad. Title		Assistant Lecturer	Module Lea	Leader's Qualification		Master Dgree	
Module Tutor			e-mail	E-mail			
Peer Reviewer Name		Name	e-mail	E-mail			
Scientific Committee Approval Date		01/06/2023	Version Number 1.0		1.0		

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module		Semester	2	
Co-requisites module	None	Semester		

Module Aims, Learning Outcomes and Indicative Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives	Introducing students to the basic concepts of software engineering and their importance in building efficient and maintainable systems.			
أهداف المادة الدراسية	<ol><li>Enabling students to analyze system requirements and transform them into a well-thought-out software design using appropriate modeling tools.</li></ol>			
	<ol><li>Teaching students advanced software design principles (such as SOLID and design patterns) to create high-quality software.</li></ol>			
	<ol> <li>Training students to use testing and version control tools to ensure software reliability and ease of development.</li> </ol>			
	<ol><li>Providing students with software project management skills using modern methodologies such as Agile and Scrum.</li></ol>			
	<ol><li>Developing students' ability to work within a development team and understanding the ethical and professional aspects of the field.</li></ol>			
	<ol><li>Enhancing students' communication skills to document software and deliver technical presentations effectively.</li></ol>			
	<ol> <li>Understand the Software Life Cycle (SDLC) and its development models (e.g., Waterfall, Agile).</li> </ol>			
Module Learning Outcomes	<ol> <li>Analyze system requirements and design solutions using modeling tools (e.g., UML).</li> </ol>			
	3- Apply software design principles (e.g., SOLID, design patterns) to write maintainable code.			
مخرجات التعلم للمادة	4- Use testing and version control tools (e.g., JUnit, Git) to ensure software quality.			
الدراسية	5- Manage software projects using methodologies such as Scrum and evaluate technical trade-offs.			
	6- Work effectively within development teams while adhering to professional ethics (e.g., security, intellectual property).			
	Document software and clearly deliver technical presentations to stakeholders and participating teams.			
	<ul> <li>Introduction to Software Engineering</li> <li>Engineering Systems</li> </ul>			
Indicative Contents	Engineering Systems			
المحتويات الإرشادية	<ul><li>Processing</li><li>Management</li><li>Modeling Languages</li></ul>			

Learning and Teaching Strategies				
استراتيجيات التعلم واتعليم				
	Lectures and interactive discussions			
	2. Practical laboratory sessions			
Strategies	3. Problem-solving exercises and tutorials			
	4. Simulation tools and software			
	5. Assessments (exams, projects) with feedback			