MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	Computation	ماده الدراسية al Thinking for Proble	Modu	lle Delivery			
Module Type	Computation	Sin Solving	Mode	☑ Theory			
Module Code				☑ Lecture ☐ Lab ☐ Tutorial			
ECTS Credits							
SWL (hr/sem)	125			☑ Practical☐ Seminar			
Module Level	1 Semester of		f Deliver	у	1		
Administering Department		Type Dept. Code	College	Type College Code			
Module Leader	Name		e-mail	E-mail			
Module Leader's Acad. Title		Professor	Module Leader's Qualification		Ph.D.		
Module Tutor	Name (if availa	able)	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	None	Semester				
Co-requisites module	None	Semester				

Module Aims, Learning Outcomes and Indicative Contents					
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية					
Module Aims	Develop computational thinking skills.				
7 1 11 7 1 11 21 12	2. Enhance problem-solving abilities.				
أهداف المادة الدراسية	3. Foster logical and analytical thinking.				
	4. Promote algorithmic reasoning and design.				
	5. Cultivate creativity and innovation in problem solving.				
Module Learning	Apply computational thinking techniques to analyze and solve problems.				
Outcomes					
	grand and provide the provide				
مخرحات التعلم للمادة	 Employ abstraction and generalization to model and solve complex problems. Cultivate critical thinking and creativity in problem-solving approaches. 				
مخرجات التعلم للمادة الدراسية	В ше стеми у предоставления в предоставл				
-9201/3001	Communicate and collaborate effectively in problem-solving scenarios.				
	Indicative content includes the following.				
	Basics Introduction: number systems, data encoding.				
Indicative Contents	2. Problem Solving: Problem definition, decomposition, abstraction.				
المحتويات الإرشادية	3. Algorithmic Thinking: Flowcharting, selection, repetition.				
	4. Data organization: Lists, arrays, modularization.				
	5. Problem Solving Techniques: Factoring, recursion.				

Learning and Teaching Strategies					
استراتيجيات التعلم والتعليم					
	 Engage students through interactive lectures and discussions. 				
	Utilize hands-on coding exercises and projects to apply computational thinking concepts.				
	Provide real-world examples and case studies to demonstrate the practical application of problem-solving techniques.				
Strategies	 Foster collaborative learning through group activities and problem-solving challenges. 				
	Offer opportunities for self-paced learning and practice through online resources and coding platforms.				
	 Provide timely feedback and guidance to support students' progress and improvement in problem-solving skills. 				