MODULE DESCRIPTION – Foundation Eng. I

وصف المادة الدراسية (جيولوجيا)

Module Information معلومات المادة الدر اسية						
Module Title	Engi	neering Geology	Module Delivery			
Module Type		Core			⊠ Theory	
Module Code	CIRE	EQ 122			□ Lecture □ Lab ⊠ Tutorial	
ECTS Credits		4				
SWL (hr/sem)	100				☐ Practical☐ Seminar	
Module Level			Semester of Delivery		у	2
Administering Department		CIER	College			
Module Leader	e Leader Assist. Lec Ali Kadhim Hass		e-mail	ali.k.hassan@nahrainuniv.edu.iq		edu.iq
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		ualification	M.Sc.
Module Tutor			e-mail			
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/06/2023	Version Number 1.0			

Relation with other Modules					
العالقة مع المواد الدراسية األخرى					
Prerequisite module	Prerequisite moduleMaterial EngineeringSemester5 & 6				
Co-requisites module None Semester					

Module Aims, Learning Outcomes and Indicative Contents					
أهداف المادة الدراسية و نتائج التعلم و المحتويات الارشادية					
	Graduation of civil engineers qualified to work in their various fields of specialization:				
Module Aims أهداف المادة الدر اسية	 Providing the student with skills to deal with developments and progress in the field of specialization. Providing the student with higher ability to understand principles of 				
	science. 3 Instilling the spirit of diligence and perseverance and encouraging them to create and innovate.				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 Understanding the importance of earth compositing materials. Ability to identify geology science and its branches. Learning the connection between civil engineering and geology. An ability to recognize material forming earth surface that can be used in civil engineering fields. Ability to analyze and specify minerals and rocks by their chemical and physical properties. Ability to use the terms and forming formulas. 				
Indicative Contents المحتويات الارشلابة	Indicative content includes the following. - Identify Geology Introduction, geology as a term and science and the branches of geology . [3 hrs] - Engineering Geology Explanation of Engineering geology and the connection with Civil engineers by Geotechnical engineering. [8hrs] - Earth Profile Brief description for earth profile, then identifying its components. [3 hrs] - Minerals Definition, classification and properties, [16 hr] - Rocks Definitions, Types and common kinds [16 hrs]				

Learning and Teaching Strategies أستراتيجيات التعلم و التعليم و

Student Workload (SWL) الحمل الدراسي للطالب				
Structured SWL (h/sem) 48 Structured SWL (h/w) الحمل الدراسي المنتظم للطالب اسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب اسبوعيا	3.3	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	95			

	Module Evaluation						
	تغييم المادة الدراسية						
Time/Nu Weight (Marks) Week Due Relevant Learning Outcome					Relevant Learning Outcome		
	Quizzes	2	10% (10)	5, 10	LO #1, 2, 3, 4, and 5		
Formative	Assignments	3	10% (10)	2, 7, 12	LO # All		
assessment	Exam	1 hr	10% (10)	6	LO # 1-5		
	Report	1	10% (10)	13	LO # All		
Summative	Midterm Exam	2 hr	10% (10)	10	LO # 1-6		
assessment	Final Exam	3hr	50% (50)	16	All		
Total assessment			100% (100 Marks)				

Delivery Plan (Weekly Syllabus)				
المنهاج االسبوعي النظري				
	Material Covered			
Week 1	Introduction – Geology Science			
Week 2	Continue- Branches of Geology			
Week 3	Engineering Geology			
Week 4	Earth Profile			
Week 5	Minerals			
Week 6	Minerals Properties			
Week 7	Earth profile			
Week 8	Rocks			
Week 9	Igneous Rocks			
Week 10	Common Igneous rocks			
Week 11	Sedimentary Rocks			
Week 12	Formation processes and common rocks			
Week 13	Metamorphic rocks			
Week 14	Common rockes			
Week 15	Folds			
Week 16	Preparatory week before the final Exam			

Learning and Teaching Resources					
مصادر النعلم والندريس					
	Available in the				
		Library?			
Required Texts	BANGAR K.M (1995) "Geology; General and Engineering'	Available online			
Recommended Texts	Lutgents, F.K & Tarbuck, E.J (2009) "Essentials of Geology"	Yes			
Others	Notebook prepared by the instructor of the course				

Grading Scheme مخطط الدرجات						
Group	Grade	النقدير	Marks (%)	Definition		
	A - Excellent	امنواز	90 - 100	Outstanding Performance		
C	B - Very Good	جپد جدا	80 - 89	Above average with some errors		
Success Group (50 - 100)	C - Good	جپد	70 - 79	Sound work with notable errors		
(30 - 100)	D - Satisfactory	منوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب)قهد المعالجة((45-49)	More work required but credit awarded		
(0-49)	F – Fail	راسب	(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.