MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية								
Module Title	В	uilding Materials		Modu	le Delivery			
Module Type		S			🗷 Theory			
Module Code		CIV001			🗷 Lecture			
ECTS Credits		7			🗵 Lab			
SWL (hr/sem)				☑ Tutorial □ Practical □ Seminar				
Module Level		UGI	Semester o	f Delivery 1		1		
Administering De	partment	CV101	College	Civil Engineering College		e		
Module Leader	Asst. Prof. Mo	hammed H. Mohana	e-mail	Mhm19	n1961mhm@uoanbar.edu.iq			
Module Leader's	Module Leader's Acad. Title		Module Leader's Qualification Ph.I		Ph.D.			
Module Tutor	Alhareth M. Abdulghafoor		e-mail	Alharet	Alharethmuthanna88@uoanbar.edu.iq			
Peer Reviewer Name			e-mail	E-mail				
Scientific Committee Approval Date		01/06/2023	Version Number 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 أهداف المادة الدر اسية	 understand compositions, engineering behaviors, and design methods of various civil engineering materials, including steel; Wood, soil, aggregate, Portland cement concrete, and asphalt cement concrete. Evaluation of material performance under applied loads for engineering applications Apply these concepts to design and analyze structural members like beams and columns. 				
	 Physical properties of concrete, metals, plastics and wood. 1. learn about the various materials, both conventional and modern, that 				
Module Learning	are commonly used in civil engineering construction.				
Outcomes	2. Identify the criteria for choice of the appropriate materials and the				
The street that at an	various tests for quality control in the use of these materials.				
مخرجات التعلم للمادة الدراسية	3. conduct tests for quality control in the use of these materials.				
Indicative Contents	 Indicative content includes the following. Introduction: Definitions and reviews, - construction materials: Classification and Select definitions, construction materials: General Requirements, Construction materials: Additional Requirements, Construction materials: Selection of Types [2 hrs] learn about the various materials, both conventional and modern, that are commonly used in civil engineering 				
المحتويات الإرشادية	construction.				
	 Identify the criteria for choice of the appropriate materials and the various tests for quality control in the use of these materials. 				
	 Conduct tests for quality control in the use of these materials. 				
	Learning and Teaching Strategies استر اتيجيات التعلم و التعليم				
Strategies	The subject of construction materials needs effective learning and educational strategy to know the properties of different materials, methods of testing them, methods of developing these materials, and the possibility of updated uses for these materials.				
	The student studying this course should also be familiar with the codes related				

to the specifications required for these materials. The student of this course must also keep up with the continuous updates in the materials codes.
The student of this course should have a way of thinking that adopts the use of alternative materials for materials that are not available, environmentally friendly and sustainable materials, advanced and modern materials.

Student Workload (SWL) الحمل الدر اسی للطالب								
	Structured SWL (h/sem) الحمل الدر اسي المنتظم للطالب خلال الفصل				8 Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبو عيا			5.2
Unstructured لالب خلال الفصل	SWL (h/sem) راسي غير المنتظم للط	الحمل الدر	97	7 Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا			6.4	
/Total SWL (h	'sem) مل الدر اسي الكلي للط	الم	17	5				
				odule Eva ادة الدر اسية				
Time/Nur er			nb) Weight (Marks)		Rele Week Due Lear Outo		ning
	Quizzes	5	5 25%		(25) 3, 6,10,14		LO #1, 3,5, and 7	
Formative	Assignments (HW)	2		5% (5)		2, 12	LO # 4 and 7	
Assessment	Report							
Assessment	Activities	1		4% (4)				
	Lab	1		6% (6)		1,2,3,4,5,6,7,8,9,10 & 11	LO # 1-14	
Summative Assessment	Midterm Exam	2 hr		10% (10)		7	LO # 1-7	
Assessment	Final Exam	3 hr		50%		16 All		
Total assessme	Total assessment) Marks)			

	Delivery Plan (Weekly Syllabus)				
المنهاج الأسبوعي النظري					
	Material Covered				
Week 1	Introduction				
Week 2	Engineering materials.				
Week 3	Brick, Production of bricks, Testing of brick, Specification of bricks.				
Week 4	Binding materials, Gypsum, Lime				
Week 5	Wood, Defects of wood, Uses of wood,				
Week 6	Cement, Production of cement, Types of cement, Testing of cement,				
Week 7	Finishing materials, Paints				
Week 8	Insulating material,				
Week 9	Tiles				
Week 10	Metals				
Week 11	Building stone,				
Week 12	Glass Building block				
Week 13	Concrete block				
Week 14	Sanitary works, Pipes.				
Week 15	Water, New building materials				
Week 16	Preparatory week before the final Exam				

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر					
	Material Covered				
Week 1	Lab1. Compressive Strength of Brick				
Week 2	Lab2. Absorption of Brick				
Week 3	Lab3. Effloresces of Brick				
Week 4	Lab4. Compressive Strength of Gypsum				
Week 5	Lab5. Modulus of Rapture of Gypsum				
Week 6	Lab6. Extension of Gypsum				
Week 7	Lab7. Standard Consistence of Gypsum				

Week 8	Lab8. General Shape of Tiles
Week 9	Lab9. Modulus of Rapture of Tiles
Week 10	Lab10. Compressive Strength of Wood
Week 11	Lab11. Tensile Strength of Steel Reinforcement

Learning and Teaching Resources مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	Kenneth N. Derucher, George P. Korfiatis, and A. Samer Ezeldin, Materials for Civil and Highway Engineers, Prentice Hall, 4th ed., 1998.	Yes		
Recommended Texts	Laboratory Manual, Compiled by Instructor	Yes		
Websites	https://www.uoanbar.edu.iq/Bank-Section.php	·		

Grading Scheme مخطط الدرجات							
Group	Grade	التقدير	Marks (%)	Definition			
	A - Excellent	امتياز	90 - 100	Outstanding Performance			
	B - Very Good	جيد جدا	80 - 89	Above average with some errors			
Success Group (50 - 100)	C - Good	ختر	70 - 79	Sound work with notable errors			
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings			
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria			
Fail Group	FX – Fail	ر اسب (قيد 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.