

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Building Material</b>		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>CE124</b>		
ECTS Credits	6		
SWL (hr/sem)	<b>90</b>		
Module Level	1	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Ahmed Abdel Razzaq		e-mail
Module Leader's Acad. Title	Ass. Lecturer	Module Leader's Qualification	M. Sc.
Module Tutor		e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/09/2024	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

<b>Module Aims</b> أهداف المادة الدراسية	1- Definition of building materials and the importance of studying them. 2- Studying models of building materials. 3- How to deal with building materials and benefit from them. 4- History of building materials and ways to develop them. 5- Studying all the properties related to building materials, including physical, chemical, mechanical, etc.
<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	1- Knowing the building materials used previously and at the present time. 2- Methods of preparing old and modern building materials. 3- The different properties of building materials. 4- Laws and equations related to each material. 5- Knowing the factors affecting these materials as well as ways to develop them.
<b>Indicative Contents</b> المحتويات الإرشادية	

## Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<b>Strategies</b>	The strategy used in this curriculum is to direct the student to study building materials and think about ways to develop them and understand their properties and everything related to them through studying them theoretically and conducting experiments for each material in the laboratory.
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## Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ 15 اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	114	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	8
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	86	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.73
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	200		

## Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)		
	Assignments	2	10% (10)		
	Projects / Lab.	1	10% (10)		
	Report	1	10% (10)		
Summative assessment	Midterm Exam	2 hr	10% (10)		
	Final Exam	2hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

## Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	Introduction to the science of building materials.
<b>Week 2</b>	General properties of building materials.
<b>Week 3</b>	General properties of building materials.
<b>Week 4</b>	Mechanical properties of engineering materials.
<b>Week 5</b>	Stress-strain curves for some materials.
<b>Week 6</b>	Modulus of elasticity for some engineering materials.
<b>Week 7</b>	Creeping and the factors affecting it and its curve.
<b>Week 8</b>	Fatigue and finding the limit of continuity.
<b>Week 9</b>	Bricks, their types, methods of classification and manufacture.
<b>Week 10</b>	Bricks, their types, methods of classification and manufacture.
<b>Week 11</b>	Wood, its composition and methods of preservation.
<b>Week 12</b>	Ferrous materials, their types, methods of preparation, and factors affecting them.
<b>Week 13</b>	Tiles, its types and specifications.
<b>Week 14</b>	Types of plaster and the most important gypsum products.
<b>Week 15</b>	Binding materials and their uses locally and their types.
<b>Week 16</b>	<b>Preparatory week before the final Exam</b>

## Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduction
Week 2	Brick test
Week 3	Iron test.
Week 4	Tiles test.
Week 5	Plaster test.
Week 6	Wood test.
Week 7	Final Exam

## Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Building materials science,	Yes
Recommended Texts	Natural building materials technology, For the author, Dr. Ahmed Ibrahim Al-Attiyah.	No
Websites		

## 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	راسب (فقد المعالجة)	(45-49)	More work required but credit awarded
	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.