



Course Weekly Outline

Name	Ahmed Abdel Razzaq Diwan					
E-mail address	ahmeol.2003@gmail.com					
Course name	Building materials					
Course objective	The course aims to study engineering materials that play an effective role in any technological progress in all fields. Therefore, engineering materials are the main entity of various engineering works. Therefore, this course aims to introduce the student to the different types of engineering materials and to study their properties and the possibility of testing the best and most appropriate of these materials to match the conditions of their use in all required engineering works. Where the civil engineering student is able to deal correctly with engineering materials with high ability and efficiency in all steps of any engineering work required to be implemented on the ground to reach the highest technical and artistic levels.					
Course description	B2 B1 The ability to choose the appropriate materials to implement the structure in a way that ensures the safety of the structure at the lowest possible cost. - The ability to think about solving work problems on the ground during the design or construction of any building. B3 - Writing scientific reports. B4 - The ability to gain experience in dealing with engineering materials used in construction.					
References	Properties and testing of building materials					
External sources						
Course assessment	Lab	Quizzes	Report	Project	Mid-term exam	Final exam
	10	10	10	10	10	50
General notes						

Republic of Iraq
Ministry of Higher
Education and Scientific
Research
Supervision and Scientific
Evaluation Apparatus



College: Shatt Al-Arab University
Department: Civil Engineering
Stage: 1st stage
Lecturer name: Ahmed Abdel Razzaq
Academic title: Ass. Lecturer

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Week No.	Theoretical	Aims
1	Introduction to building materials science.	B2 B1 The ability to choose the appropriate materials to implement the structure in a way that ensures the safety of the structure at the lowest possible cost. - The ability to think about solving work problems on the ground during the design or construction of any building. B3 - Writing scientific reports. B4 - The ability to gain experience in dealing with engineering materials used in construction.
2	General properties of building materials.	
3	General properties of building materials.	
4	Mechanical properties of engineering materials.	
5	Stress-strain curves of some materials.	
6	Modulus of elasticity of some engineering materials.	
7	Creep and factors affecting it and its curve.	
8	Fatigue and finding the limit of continuity.	
9	Bricks and their types, methods of classification and manufacture.	
10	Bricks and their types, methods of classification and manufacture.	
11	Wood and its composition and methods of preservation.	
12	Iron materials and their types, methods of preparation and factors affecting them.	
13	Tiles and their types and specifications.	
14	Types of gypsum and the most important gypsum products.	
15	Binding materials and their local uses and types.	