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

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		I				1

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Week No.	Theoretical	Aims
1	Introduction to building materials science.	terials to the safety ms on the building. to gain als used
2	General properties of building materials.	appropriate materials that ensures the safesible cost. Ig work problems on truction of any buildin B4 - The ability to gain neering materials use
3	General properties of building materials.	e the appropriate mater a way that ensures the it possible cost. solving work problems construction of any bu- orts. B4 - The ability to a engineering materials
4	Mechanical properties of engineering materials.	opriate mate to cost. ork problems ion of any by The ability ting material
5	Stress-strain curves of some materials.	priate m ensures ost. k proble on of any he abilliu
6	Modulus of elasticity of some engineering materials.	opria t ensu cost. ork pu ion o The a
7	Creep and factors affecting it and its curve.	the appropriate way that en possible cosolving work construction orts. B4 - The engineering
8	Fatigue and finding the limit of continuity.	the appr way that possible plying we constructi rts. B4 - '
9	Bricks and their types, methods of classification and manufacture.	the way way poss plvin const
10	Bricks and their types, methods of classification and manufacture.	oose the in a was west pos out solvi out solvi or cons reports.
11	Wood and its composition and methods of preservation.	lity to choose the approstructure in a way that at the lowest possible continue about solving wor the design or constructic scientific reports. B4 - T dealing with engineering in.
12	Iron materials and their types, methods of preparation and	to acturate the to the the the des
	factors affecting them.	ability to che structure ure at the love to think about the design and scientific in dealing vition.
13	Tiles and their types and specifications.	
14	Types of gypsum and the most important gypsum products.	The ment the struct struct ability I duri I duri ience ience astruct
15	Binding materials and their local uses and types.	B2 B1 impler of the a ground B3 - ' expering con in con in con in con a series of the a series