Republic of Iraq

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



College: Shatt Al-Arab University
Department: Civil Engineering

Stage: 1- stage

Lecturer name: Mohammed Mustafa

Mohammed Nooruldin Ars Academic title: Lecturer

Course Weekly Outline

Name	Mohammed Mustafa Mohammed Nooruldin Ars			
E-mail address	Muhamad.mustafa.muhamad@sa-uc.edu.iq			
Course name	Engineering Chemistry-1			
Course objective	The course aims to present the basic methods for interpreting the behaviour of various types of materials in terms of their chemical compositions. Emphasis was placed on the application of chemical principles and their relationship to civil engineering.			
Course description	A- Cognitive objectives A1- Studying and knowing the types of cement, chemical properties and equations involved in its composition. A2- Study and knowledge of water, chemical properties and equations involved in its composition and water suitable for concrete mixture. A3- Study and knowledge of the types of lime and gypsum, chemical properties and equations involved in its composition. B – The skills objectives of the course. B1 – Application of chemical equations and for the purpose of knowing the chemical properties involved in structural engineering. B2 – Use basic knowledge to research new chemical techniques. B3 – Deriving and evaluating the equations necessary for the application of structural engineering analysis methods.			

References				
External sources				
Course assessment	Lab.	Quizzes and assessment	Mid-term exam	Final exam
		40	10	50
General notes				

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Week No.	Theoretical	Experimental	Aims
1		Cement (composition and types)	for aced their
2		Cement (composition and types)	methods for of materials in asis was placed oles and their
3		Cement (composition and types)	methods f materia is was pl
4		Cement (composition and types)	basic n types of Emphasis principles
5		Cement (composition and types)	e bs s. En priir
6		Cement (composition and types)	t the arious itions.
7		Cement (composition and types)	present the ur of varior omposition chemical neering.
8		Lime and gypsum	pu p
9		Lime and gypsum	to Jiviou zal cc of of angir
10		Lime and gypsum	ha nic on 1 e
11		Lime and gypsum	aims te bek chem icatio civil
12		Water and its composition	rse aims ng the behæ heir chemic application iip to civil e
13		Water and its composition	course preting is of thei the app
14		Water and its composition	The course aims to present the basic methods for interpreting the behaviour of various types of materials in terms of their chemical compositions. Emphasis was placed on the application of chemical principles and their relationship to civil engineering.

15	Water and its	
	composition	