

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)	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.
2		Cement (composition and types)	
3		Cement (composition and types)	
4		Cement (composition and types)	
5		Cement (composition and types)	
6		Cement (composition and types)	
7		Cement (composition and types)	
8		Lime and gypsum	
9		Lime and gypsum	
10		Lime and gypsum	
11		Lime and gypsum	
12		Water and its composition	
13		Water and its composition	
14		Water and its composition	

15		Water and its composition	
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