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.		
	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		
Course description	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 s in aced heir	
2		Cement (composition and types)	nods terial as pla nd t	
3		Cement (composition and types)	ff math sis wa es a	
4		Cement (composition and types)	asic pes o nphae nciple	
5		Cement (composition and types)	e bî s. En prii	
6		Cement (composition and types)	it th ariou nical	
7		Cement (composition and types)	resen of v mpos chen sering	
8		Lime and gypsum	f con bi	
9		Lime and gypsum	ng o o ng	
10		Lime and gypsum	hanic nic 1 e	
11		Lime and gypsum	aims e be chen catic civi	
12		Water and its composition	rse ng th heir d appli ip to	
13		Water and its composition	cou pretii s of the a ionsh	
14		Water and its composition	The interj terma on t relati	

15	Water and its	
	composition	