Republic of Iraq

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



University: Shatt Al-Arab College: Engineering

Department: Civil Engineering

Stage: 3rd stage

Lecturer name: Dr. Ihsan Qasim
Academic title: Assistant Professor

Course Weekly Outline

Name	Dr. Ihsan Qasim Mohammed				
E-mail address	ihsanqasim@sa-uc.edu.iq				
Course name	Soil Mechanics-1				
Course objective	The course aims to present the characteristics of soil used in civil engineering works and how to deal with different types of soil as a construction material and support medium for the foundations of buildings.				
Course description	 Preparing and qualifying specialized engineers to meet the requirements of the labor market in its private and public sectors in civil engineering through diversification in methods of learning and teaching and training students to apply the acquired knowledge and skills to solve realistic problems. Providing distinguished academic programs in the field of civil engineering, both theoretical and practical, that comply with international standards of academic quality and meet the needs of the labor market. Encouraging and developing scientific research in the fields of civil engineering in general. Preparing a stimulating environment for faculty members to develop their knowledge and educational and research skills. Building and developing partnership with the governmental and private sectors and society in all its various institutions. 				
References	- Principles of Geotechnical Engineering (By: Braja M. Das, 7th Ed.)				
External sources	-Soil Mechanics (By: R.F. Craig, 4th Ed. or higher)				
Course assessment	Lab.	Quizzes and assessment	Mid-term exam	Final exam	
	10	15	20	55	
General notes		1		<u>'</u>	

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Week No.	Theoretical	Experimental	Aims
1	Basic Charactristics of soil	Specific graphity test	cs in
2	Weight-volume relashionships	Liquid limit	chanic ous o
3	Weight-volume relashionships	Plastic limit	ll mecha various
4	Plasticity of fine grained soil	Seive analysis	of soi
5	Plasticity of fine grained soil	Hydrometer analysis	of topics o
6	Soil classification	Proctor test	of to
7	Soil classification	Field density	al al
8	Soil compaction	Field density	ang
9	Soil compaction		e r;
10	Permeability of soil		vid
11	Permeability of soil		rs a wide rang c foundations ems.
12	Permeability of soil		covers a ar basic and for problems
13	Seepage		le c e g b
14	Seepage		This module covers a wide range of topics of soil mechanics in order to offer basic knowledge and foundations applicable to various civil engineering problems.
15	Seepage		This orde kno engi