

Course Description Form

1. Course Name:					
Soil Mechanics					
2. Course Code:					
3. Semester / Year:					
2 nd Semester/ 2024					
4. Description Preparation Date:					
18/3/2024					
5. Available Attendance Forms:					
In-person classes					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 hrs					
7. Course administrator's name (mention all, if more than one name)					
Name: Lecturer Dr. Mustafa Al-saedi Email: Mustafa.al@uowa.edu.iq					
8. Course Objectives					
Course Objectives	<ul style="list-style-type: none"> ✓ Studying the seepage behavior under the hydraulic structures ✓ Calculate the stresses under the geostatic and structural loading ✓ Determine the strength of soils and its parameters ✓ Estimating the different types of settlement under the stresses 				
9. Teaching and Learning Strategies					
Strategy	<ul style="list-style-type: none"> ✓ Videos and photted reports about the objectives are the fast and easy strategy to reach the information about the foundation problems and soil behavior. 				
10. Course Structure					
Week	Hr s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	15	Learning the seepage under hydraulic structures such as dam	Two-Dimensional Flow	Class & laboratory	Laboratory reports, daily monthly exams

5-7	15	Studying the stresses above soil's layers	Stress in a soil mass	Class& laboratory	Laboratory reports, daily monthly exams
8-11	15	Estimating the different types settlement under the effect stresses	Compressibility of Soil	Class& laboratory	Laboratory reports, daily monthly exams
12-14	15	Determine the Shear Strength of Soil and its parameters	Shear Strength of Soil	Class& laboratory	Laboratory reports, daily monthly exams
15	15	Review of the above study			

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> ✓ Soil Mechanics R.F.Graig ✓ Soil Mechanics T.W.Lamb.R.V.Whitman ✓ Soil Mechanics Basic Concepts and Engineering Application. A.Aysen
Main references (sources)	<ul style="list-style-type: none"> ✓ Advanced Soil Mechanics, Das ✓ Soil Mechanics Fundamentals
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Google scholar; YouTube