Course Description Form

1. Course Name:
Soil Mechanics
2. Course Code:
3. Semester / Year:
2nd 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	✓ **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	✓ **Videos and phtted 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	Hrs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	15	Learning the seepage under hydraulic structures such as dam	Two-Dimensiona 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 effec stresses**	**Compressibilit y 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)	✓ 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)	✓ Advanced Soil Mechanics, Das ✓ Soil Mechanics Fundamentals
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Google schooler; YouTube

UNIVERSITY OF WARITH AL-ANBIYAA
COLLEGE OF ENGINEERING
2017
كليـــة الهندســـــة