***Soil Mechanics***

-Theoretical : 2 hr. /week

-Applicatory : 1 hr. /week

-Practical (Lab.): 2 hr. /week

***Required Text Books***

- Principles of Geotechnical Engineering (By: Braja M. Das, 7th Ed.)

-Soil Mechanics (By: R.F. Craig, 4th Ed. or higher)

-Soil Mechanics (By: T.W. Lambe and R.V. Whitman)

- مبادئ ميكانيك التربة ( تأليف و إعداد: د. محمد عمر العشو )

-Experiments in Soil Mechanics

جامعة البصرة – كلية الهندسة – قسم الهندسة المدنية

***Syllabus***

1. Geotechnical Engineering – A Historical Perspective
2. Basic Characteristics of Soils
3. Weight-Volume Relationships (Phase Relationships)
4. Plasticity and Structure of Soil
5. Classification of Soil
6. Soil Compaction
7. Permeability
8. Seepage
9. In Situ Stresses
10. Stresses in Soil Mass
11. Compressibility of Soil
12. Shear Strength of Soil
13. Lateral Earth Pressure