

وصف المقرر دراسي Course Description

متطلب متزامن Co-Req.	متطلب سابق Pre-Req	تمارين TU	عملي LB	نظري LT	الساعات CR	اسم المقرر Course Title	رقم ورمز المقرر Course Code
-	203, 285 همد	1	-	3	3	الهندسة الجيوتكنيكية Geotechnical Engineering	353 همد CE 353

محتويات المقرر :

سريان المياه خلال الترب، دمك الترب، قابلية إنضغاط الترب. هبوط المنشآت. مقاومة القص في الترب، ثبات الميول، تحريات موقع العمل.

Course Contents:

Flow of water in soil, soil compaction, Consolidation of soils. Settlement of structures. Shear strength of soils. Introduction to Stability of slopes. Site investigation.

Course Objectives:

The student will be presented with a wide range of experiences in the classroom, laboratory and field trips in order to become comfortable with the basic theoretical and practical principles of soil mechanics and geotechnical engineering. The scope of the course is directed towards making the student aware of the influence of geotechnical principles in all fields of civil engineering. The topics are presented through the use of PowerPoint slides, classroom demonstrations, field trips, discussions, quizzes and technical reports.

Evaluation Methods:

1. Midterm exams
2. Term report
3. Assignments
4. Quizzes
5. Final exam

Text Book and References:

1. DAS, B.M., (2005). Principles of Geotechnical Engineering. PWS-Kent, Boston, Massachusetts, ISBN 0534551440.
2. Holtz, R.D., and Kovacs, W.D. (1981). An Introduction to Geotechnical Engineering. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, ISBN 0134843940.