

Course Description وصف مقرر دراسي

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
	353 همد 315 همد CE 353 CE 315	1	-	3	3	هندسة الأساسات Foundation Engineering	363 همد CE 363

محتويات المقرر:

أنواع الأساسات. قوة تحمل الأساسات السطحية. قوة تحمل الأساسات العميقة، الخوازيق والقيسونات. أساسات الركائز بأنواعها المختلفة. الستائر الحديدية.

Course Contents:

Types of foundation. Bearing capacity of shallow foundation. Bearing capacity of deep foundations. Pile foundations and caissons. Sheet piling.

Course Objectives:

The course is advanced course in Geotechnical Engineering. The objective of the course is to make the student aware of the various types of foundations. This includes methods of calculating the bearing capacity of shallow and deep foundations and their structural design. Much of the information to be gained in this course will come from reading assignments, so take them seriously. Lectures will be utilized for in depth discussion of case histories and experiential teaching from instructor. Homework, quizzes and exams will often require that students use their problem solving abilities obtained throughout their educational career to read, comprehend, and apply basic Geotechnical Engineering design tools.

Evaluation Methods:

1. Midterm exams
2. Assignments
3. Quizzes
4. Final exam

Text Book and References:

1. DAS, B.M., (2003). Principles of Foundation Engineering. PWS Engineering, Boston, Massachusetts, ISBN 0534407528.
2. Bowles, J.E., (1995). Foundation Analysis and Design. McGraw-Hill, London, ISBN 0079122477.