

وصف مقرر 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						
-	202 همد	-	2	2	3	المواد الانشائية Structural Materials	203 همد CE 203						
محتويات المقرر :													
المواد الهندسية : الخواص ، الاختبارات ، المواصفات ، التقييم الإحصائي ، الطوب ، الجير والجبس ، الخشب ، المعادن ، البلاستيك ، الخنزف ، (السيراميك) والزجاج ، أجهزة الاختبار ، أجهزة القياس ، الاختبارات : الشد ، الضغط ، الانحناء ، القص ، الصلابة ، التصادم ، الاختبارات غير المتلفه .													
Course Contents:													
Engineering materials: properties, testing, specifications, statistical evaluation; bricks, lime, gypsum, timber, wood, metals, plastics, ceramics, glasses. Testing machines. Measuring devices Tests: tension, compression, bending, shear, hardness, impact. Non destructive tests.													
Course Objectives:													
Experimentation and testing play an important role in controlling the quality of materials for use in design and construction. The course intends to give substance to theoretical concepts and includes laboratory testing of constructional materials. The main objective of the course is to achieve familiarity with the mechanical properties of the engineering materials, skill in the methods of observation, knowledge of accepted methods of testing, appreciation of the significance of data, strengthened grasp of the principles of mechanics of materials, acquaintance with standards and the technical literature and the ability to report the results of investigation.													
Evaluation Methods:													
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1. Midterm exams</td> <td style="width: 50%;">4. Lab. Reports</td> </tr> <tr> <td>2. Assignments</td> <td>5. Final exam</td> </tr> <tr> <td>3. Quizzes</td> <td></td> </tr> </table>								1. Midterm exams	4. Lab. Reports	2. Assignments	5. Final exam	3. Quizzes	
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Text Book and References:													
The Testing of Engineering Materials: (Fourth Edition) by H. E. Davis, G. E. Troxell and G. F. W. Hauk Materials: Mitchell's Building Series, Alan Everett, Mitchell Publishing Company Ltd.													