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| **Department of Civil Engineering** | | | |
|  | **Semester 1 (1440-1441)** | |  |
| **CE 305 Mechanics of Materials Laboratory** | | | |
| **Course Instructor:** | |  |  |
| Dr. Hussam Alghamdi | |  |  |
| Office: 2A65 Civil Engineering Department | |  |  |
| Email: hsghamdi@ksu.edu.sa | |  |  |

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| **COURSE PROGRAM** | | |
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| Week 2 | Orientation |  |
| Week 3 | - Normal Stress: Segmented Axial member (H&V)  - Direct Shear Stress: Bolted Connection |  |
| Week 4 | - Bearing Stress: Post and Plate  - Axial Deformation: Segmented Axial member (H&V) | **Quiz#1** |
| Week 5 | - Material Properties: Poisson’s ratio (Round)  - Stress-strain Curve | **Quiz#2** |
| Week 6 | Torsion (Simple & Multiple) | **Quiz#3** |
| Week 7 | **First Mid Term** |  |
| Week 8 | Section Properties and Flexure |  |
| Week 9 | Flexure |  |
| Week 10 | Flexure (Continued) |  |
| Week 11 | Determinate Beams | **Quiz#4** |
| Week 12 | Determinate Beams (Continued) |  |
| Week 13 |  |  |
| Week 14 | **Second Mid Term** |  |
| Week 15 | Revision |  |
| Week 16 | **Final Exam** |  |

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| **Class schedule** | Laboratory is held once a week in a 2-hr session |
| **Textbook(s) and/or other required materials** | MDSolids Software ( [www.mdsolids.com](http://www.mdsolids.com) ) |
| **Prepared by** | Dr. Hussam Alghamdi |
| **Date of preparation** | Sep. 3, 2019 (4/1/1441) |

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| **GRADE DISTRIBUTION** | |
| Attendance | 10% |
| Quizzes & HWs | 20% |
| First Mid Term | 20% |
| Second Mid Term | 20% |
| Final Exam | 30% |

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| **Date of final exam: TBD** |
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| **GOOD LUCK** |