Course Title and Number: Statics (805221)

Credit Hours: 3

Level: A second-year course

Prerequisites: Physics 1 (202101)

Instructor: Dr. Aslam Ali Al-Omari
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Class Days and Time: Sun. through Thu. (10:20 am to 11:20 am) Section 1

Main Objective: This course is an introduction to engineering mechanics concepts; force systems; static equilibrium; centroids and center of gravity; shear and moment concepts; friction; and moments of inertia.


References:

Course Outline: We will try covering most of the following subjects based on the available course time

1. Introduction and Fundamental Principles Ch.1
2. Force Vectors Ch.2
3. Equilibrium of Particles Ch.3
4. Force System and Resultants Ch.4
5. Equilibrium of Rigid Bodies Ch.5
6. Structural Analysis Ch.6
7. Internal Forces, Friction Ch.7&8
8. Center of Gravity and Centroid Ch.9
9. Moment of Inertia Ch.10

1st Exam

2nd Exam
Grading Policies:

- First In-Class Midterm (On Thu. 26/7/07): 20%
- Second In-Class Midterm (On Thu. 16/8/07): 20%
- Homework and Quizzes: 10%
- Final Examination: 50%

Attendance: University rules will be strictly applied

Solid Rules:

1. Academic Honesty
   a) Homework: Students may work together on homework assignments and are encouraged to help each other with them. However, blind copying of assignments is not permitted. Copying of homework will be considered an act of scholastic dishonesty and will receive zero credit for that assignment.
   b) Exams: Students have the responsibility of avoiding the appearance of cheating during tests, e.g., clearing desk top of all unauthorized material, putting all unauthorized study materials out of view, and keeping their eyes on their own work.
   Violations of academic honesty on exams will result in punishment ranging from a grade of zero to a grade of F in the course.

2. Exams Attendance
   It is the student's responsibility to be fully aware of exams dates. Only sound reasons will be accepted for being absent from an exam. For authorized absences, the instructor will give a makeup test. For unauthorized absences, the instructor will decide on a course of action depending on the circumstances. Lost of credit for the missed test is a possible course of action.