



## ME-392: Mechanics

Fall 1427/1428 (27-2)

Instructor	Office	Phone	Email
Dr. Al-Abduljabbar	15-S-44	4, Ext 3007	Metech27@gmail.com

**Catalogue Description:** 3(3-0-0) Contact hrs: 3 **Pre-requisites:** *PHYS 302, MATH 301*

### Choose the lecture topics that you want to learn in this course

1. **Introduction:** Units, Basic mathematical requirements (Must)
2. **Statics of Particles:** Force Analysis, equations of motion: Newton's 1<sup>st</sup> Law. ( )
3. **Statics of Rigid Bodies:** Force Analysis, equations of motion: Newton's 1<sup>st</sup> Law for rigid body. ( )
4. **Kinematics of Particles:** Displacement, velocity, acceleration etc... Newton's 2<sup>nd</sup> Law for particles. ( )
5. **Kinematics of Rigid Bodies:** Displacement, velocity, acceleration etc... Newton's 2<sup>nd</sup> Law for rigid body. ( )
6. **Kinetics of Particles:** dynamic forces, acceleration and momentum for rigid body
7. **Kinetics of Rigid Bodies:** dynamic forces, acceleration and momentum for rigid body
8. **Shear moment Diagrams:** ( )

### Attendance

Attendance will be checked at the beginning of each lecture. **Late coming** is strictly **not allowed** as this disturbs students and instructor. Excuses for absence should be approved by the **Deanship of student affairs** and submitted to the instructor within one week following the last day of absence. University regulations will be followed for students exceeding the maximum number of unexcused absences. In addition, 0.5% will be deducted for each unexcused absence.

### Homeworks

All homework problems assigned during a given week are due in class on the following **Monday** unless otherwise stated. **LATE** home works **will not be accepted**.

### Quizzes

Five quizzes will be scheduled during the semester. No make-up quizzes will be conducted.

### Major Exam

One major exam is planned after the 6<sup>th</sup> week;

### GRADING SYSTEM

10 %	<b>Class work &amp; Attendance</b>	To be assigned
10 %	<b>Homework</b>	No late homeworks
10 %	<b>Quizzes</b>	No make up quizzes
25%	<b>Major Exam</b>	March 27, 2006, 8:00 PM
45 %	<b>Final Exam</b>	Scheduled by the registrar