

MENG 190 – Introduction to Mechanical Engineering

Department:

Mechanical Engineering

Instructor: Assist. Prof Dr. Devrim Aydın

Assistant: Görkem Ozankaya

Program Name:

Mechanical Engineering

Program Code:23

Credits:1 Cr

Catalog Description:

- √ Introduction to mechanical engineering subtopics.
- √ Basic concepts of and definition of Thermodynamics
- √ Basic concepts of Material Science
- √ Basic concepts of Electric and Electricity
- √ Basic concepts of Rigid Body Dynamics
- √ Basic concepts of Fluid Dynamics and Heat Transfer

Course Web Page:

staff.emu.edu.tr/devrim.aydin

Textbook(s):

There is no textbook specifically defined for this course. The subjects of this course will be discussed with the help of slides during the lecture hours. It is compulsory to check course web page weekly. ****

Homework: % 15

Write an essay about any topic you interested on Mechanical Engineering.

Homework must be individual ! (Two same homeworks will be cancelled)

Submission Date: 26th of October 2018

Attendance: % 10

Midterm Examination: %20

Final Examination: %30

Research Project: % 25

Submission DATE: Final Exam DATE (TBA)

The projects must be team work and each team include either 4 or 5 person.

The subject fields must be explained basically and applications of this fields must be defined in details.

Topics covered;

- √ The Aerodynamics and Fluid Dynamics Applications
- √ Agricultural breakthrough machines for production chains
- √ The Combustion and Energy Systems
- √ Biomedical devices and their applications
- √ Biomechanics
- √ Materials and Structures

**In case of any obstacles faced during research , get help from the provided source (about the fields) which is given for you .

Source:<https://www.mcgill.ca/mecheng/research>