

ME 371

Thermodynamics -I-

Instructor: Dr. Obida Zeitoun

Room: 2C88

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Course Objectives:

Thermodynamics is a basic course that serves as the background for many thermo-fluid courses. The main objective of the course is to provide the engineering student with the basic principles of thermodynamics through the study of the first and second laws of thermodynamics and applications.

Textbook: Thermodynamics: An Engineering Approach, by Cengel and Boles, 6th Edition.

Course Content

Chapter		Sections
1	Introduction and Basic Concepts	1.1-1.9
2	Energy, Energy Transfer, and General Energy Analysis	2.1-2.8
3	Properties of Pure Substances	3.1-3.7
4	Energy Analysis of Closed Systems	4.1-4.5
5	Mass and Energy Analysis of Control Volumes	5.1 to 5.4
6	The Second Law of Thermodynamics	6.1 to 6.11
7	Entropy	7.1-7.10, 7.12
8	Power Cycles	9.8, 10.1, 10.2

Grading

Assignments and quizzes: 10

2 Midterm Exams: 40

Final Exam: 50

Midterm I: Sunday, 04:00-05:30 PM 23/12/1429-21/12/2008

Midterm II: Sunday, 04:00-05:30 PM 21/01/1430-18/01/2009