ME 204 THERMODYNAMICS II
(2006-2007 SPRING SEMESTER)

Professor Dr. Hafit Yüncü
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Class Schedule
Tuesday 15:40 to 17:30 Room B-102
Thursday 13:40 to 14:30 Room B-102

Course Description

ME 204 is a 7-unit subject, serving as the Mechanical Engineering Department's undergraduate course in heat. The prerequisites for this course are the undergraduate courses in thermodynamics, specifically ME 203, or their equivalents. This course covers problems of applied thermodynamics in greater depth and complexity and incorporates many subjects.

Topics to be covered include:
1. Introductory Remarks
2. Two Laws Combined, Exergy, Flow Exergy, Exergy Equation, Second Law Efficiency, Irreversibility
3. Thermodynamic Relations
4. Power and Refrigeration Cycle
5. Mixtures, Mixtures of Ideal gases, Air Water –Vapor Mixtures
7. Introduction to phase, and Chemical Equilibrium.

TEXTBOOK INFORMATION

The following references are at Library:

22. H.Yüncü, Ekserji Analizi ( İkinci Kanun Verimi & Termoekonomi) ODTÜ yayınları, 2010
MID-TERMS AND FINAL EXAM

There will be two two-hour long mid-term examinations. The dates and places will be announced by the department. The content of the mid-terms will be announced in class prior to the mid-terms.

There will be a three-hour long final exam during the exam period. Place will be announced during the semester.

All of the exams will cover material from both the lectures and the homework assignments. They will be open-book, unless otherwise announced. You may bring your own textbook; collections of solved problems or old homework/exams from other terms. Your answers must be concise and legible. Anything that is not clearly understood will be marked as incorrect. Omission or incorrect use of units may be penalized heavily.

In order to be eligible to enter the make-up examination for a missed examination, a student must have a documented or verifiable and officially acceptable excuse. A student who wishes to take a make-up must submit a written statement to the course instructor or assistant(s) of the course explaining the reason(s) for his/her request and including the officially acceptable documented within three days after the examination. The make-up examination will be within two weeks after the missed examination. Make up examination will be much harder than the examination itself.

CLASS REQUIREMENTS AND GRADING POLICY

Grades will be based on approximately the following distribution: mid-term examinations, homework assignments, class participation and contribution (65%), and the final exam (35%).