

YILDIZ TECHNICAL UNIVERSITY
DEPARTMENT OF MECHANICAL ENGINEERING

THERMODYNAMICS II – MAK2142

G 5
Spring 2023-2024

Instructor: Asst. Prof. Dr. Merve ÖZTÜRK, merveoz@yildiz.edu.tr
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Week 1	19.02.2024	Thermodynamics I Overview and Chapter 8 Exergy
Week 2	26.02.2024	Chapter 8 – Exergy
Week 3	04.03.2024	Chapter 9 – Gas Power Cycles
Week 4	11.03.2024	Chapter 9 – Gas Power Cycles – Quiz I
Week 5	18.03.2024	Chapter 10 – Vapor and Combined Power Cycles
	18.03.2024	Problem Session – I
Week 6	25.03.2024	Chapter 10 – Vapor and Combined Power Cycles – Quiz II
	30.03.2024	Problem Session – II (Online)
Week 7	01.04.2024	Chapter 11 – Refrigeration Cycles
Week 8	08.04.2024	Official Holiday
Week 9	15.04.2024	Midterm Examination Week
Week 10	22.04.2024	Midterm Examination Week
Week 11	29.04.2024	Chapter 11 – Refrigeration Cycles
	04.05.2024	Problem Session – III
Week 12	06.05.2024	Chapter 13 – Gas Mixtures
Week 13	13.05.2024	Chapter 14 – Gas-Vapor Mixtures and Air-conditioning – Quiz III
	18.05.2024	Problem Session – IV
Week 14	20.05.2024	Chapter 14 – Gas-Vapor Mixtures and Air-conditioning
		Final Examination

<i>Textbook:</i>	Thermodynamics: An Engineering Approach Yunus Çengel-Michael Boles, McGraw-Hill Education.
<i>Grading:</i>	30% Midterm examination 30% Quizzes (10% for each Quiz) 40% Final examination
<i>Notes:</i>	• Textbook is required and the course is prepared from the textbook, which is mandatory. • 70% attendance is mandatory. • Midterm and final examinations will be open book-based, and quizzes will be formula sheets and tables-based. The formula sheet will be shared as a PDF before the quizzes, and the tables and formula sheet will be brought by the student. No other reference material other than a dictionary will be allowed. • Most examination questions will come (possibly with some modifications) from the end-of-chapter problems of the textbook. Students are encouraged to solve as many of those problems as possible. • Students are also suggested to study the upcoming topic before the lecture and solve a few questions after the lecture. The course has abstract topics and is difficult to understand, especially for the students whom English is not their mother language. • Cheating, plagiarism, and any other misrepresentations are strictly prohibited. Students violating these rules receive severe sanctions including a failing grade in the course and, depending on the circumstances, possible expulsion from the School.