Yildiz Technical University
Mechanical Engineering Faculty, Department of Mechanical Engineering

THERMODYNAMICS 1

G 3
Autumn 2022-2023

Instructor: Assoc. Prof. Dr. Özgen AÇIKGÖZ, oacikgoz@yildiz.edu.tr
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1st Week	3 Oct	Chapter 1	Introduction and Basic Concepts
2ndWeek	10 Oct	Chapter 2	Energy, Energy Transfer, and General Energy Analysis
3rd Week	17 Oct	Chapter 3	Properties of Pure Substances
4th Week	24 Oct	Chapter 4	Energy Analysis of Closed Systems
5th Week	31 Oct	Chapter 4	Energy Analysis of Closed Systems
6th Week	7 Nov	Chapter 5	Mass and Energy Analysis of Control Volumes
7th Week	14 Nov	Chapter 5	Mass and Energy Analysis of Control Volumes
8th Week	21 Nov		Midterm Exam 1 (Chapters 1-2-3-4-5)
9th Week	28 Nov	Chapter 6	The Second Law of Thermodynamics
10th Week	5 Dec	Chapter 6	The Second Law of Thermodynamics
11th Week	12 Dec	Chapter 7	Entropy
12th Week	19 Dec	Chapter 7	Entropy
13th Week	26 Dec	Chapter 8	Exergy: A Measure of Work Potential+Midterm exam (First hour)
14th Week	2 Jan	Chapter 8	Ekserji: A Measure of Work Potential
FINAL EXAM			

Course Book:	**Thermodynamics: An Engineering Approach** Yunus A. Çengel-Michael A. Boles, Mc. Graw Hill
Grading:	60% Midterm Exams 40% Final Exam
Notes:	• Obtaining the course book is compulsory. Lectures are to be issued by following the book, and chapters that shall be issued to be read in advance is strongly recommended. • Exams shall be conducted open book. No other source except the course book is allowed to be used in exams. • Course presentation files can be downloaded from https://avesis.yildiz.edu.tr/oacikgoz