Yildiz Technical University
Faculty of Mechanical Engineering, Department of Mechanical Engineering

Thermodynamics 1

G 3
Autumn 2020-2021

Instructor: Assoc. Prof. Dr. Özgen AÇIKGÖZ, oacikgoz@yildiz.edu.tr
https://avesis.yildiz.edu.tr/oacikgoz

1st Week	5 Oct. Chapter 1	Introduction and basic concepts
2nd Week	12 Oct. Chapter 2	Energy, energy transfer, and general energy analysis
3rd Week	19 Oct Chapter 3	Properties of pure substances
4th Week	26 Oct Chapter 4	Energy analysis of closed systems
5th Week	2 Nov Chapter 4	Energy analysis of closed systems
6th Week	9 Nov Chapter 5	Mass and energy analysis of control volumes (Quiz 1/1-2-3-4. Chapters)
7th Week	16 Nov Chapter 5	Mass and energy analysis of control volumes
8th Week	23 Nov Chapter 6	Second law of thermodynamics
9. Hafta	30 Nov	Midterm exam (1-2-3-4-5. Chapters)
10. Hafta	7 Dec Chapter 6	Second law of thermodynamics
11. Hafta	14 Dec Chapter 7	Entropy
12. Hafta	21 Dec Chapter 7	Entropy (Quiz 2/1-2-3-4-5-6. Chapters)
13. Hafta	28 Dec Chapter 8	Exergy: A measure of work potential
14. Hafta	4 Jan Chapter 8	Exergy: A measure of work potential
	FINAL EXAM	

Coursebook:	**Thermodynamics: An engineering approach** Yunus Çengel-Michael Boles, McGraw-Hill Education
Grading	15% Quiz 1 15% Quiz 2 20% Midterm exam 10% In class exams 15% Homeworks for final exam 25% Final exam
Notes:	• Coursebook is required. Lectures will be issued tracing the coursebook, and thus it is strongly recommended to read the chapter to be issued before the course. • Presentations of the course can be downloaded from https://avesis.yildiz.edu.tr/oacikgoz