

**YILDIZ TECHNICAL UNIVERSITY  
MECHANICAL ENGINEERING DEPARTMENT**

**THERMODYNAMICS II**

**Spring 2021-2022**

*Instructors:* Assoc. Prof. Dr. Özgen Açıkgöz, oacikgoz@yildiz.edu.tr

Week 1	02.03.2022	Chapter Thermodynamics-1 Overview
Week 2	09.03.2022	Chapter 8 Exergy
	12.03.2022	Problem Session-1
Week 3	16.03.2022	Chapter 9 Gas Power Cycles
Week 4	23.03.2022	Chapter 9 Gas Power Cycles
	26.03.2022	Problem Session-2
Week 5	30.03.2022	Chapter 10 Vapor and Combined Power Cycles+Quiz 1
Week 6	06.04.2022	Chapter 10 Vapor and Combined Power Cycles
	09.04.2022	Problem Session-3
Week 7	13.04.2022	Chapter 11 Refrigeration Cycles
Week 8	20.04.2022	Exam Week
Week 9	29.04.2022	Midterm Examination I
Week 10	04.05.2022	Holiday
Week 11	11.05.2022	Chapter 11 Refrigeration Cycles
	14.05.2022	Problem Session-4
Week 12	18.05.2022	Chapter 13 Gas Mixtures +Quiz 2
Week 13	25.05.2022	Chapter 14 Gas-Vapor Mixtures and Air Conditioning
	28.05.2022	Problem Session-5
Week 14	01.06.2022	Chapter 14 Gas-Vapor Mixtures and Air Conditioning
		Final Examination

<b>Textbook:</b>	<b>Thermodynamics: An Engineering Approach</b> Yunus Çengel-Michael Boles, McGraw-Hill Education. (Pandora Kitap Hizmetleri, Beyoğlu Şubesi İstiklal Cad.Büyükparmakkapı Sok 3/A) (Tel:0212 359 71 78 - 0212 287 31 69 - 0212 263 38 07)
<b>Grading:</b>	30% Midterm Examinations 10% for Quiz 1 10% for Quiz 2 10% for Project (20.04.2022-27.05.2022) 40% Final Examination
<b>Notes:</b>	<ul style="list-style-type: none"><li>• Textbook is required. The course is designed around the textbook, which is mandatory. There will be reading assignments.</li><li>• All midterm and the final examinations will be <b>open-book</b>. No other reference material will be allowed except a dictionary.</li><li>• Students are encouraged to solve as many of the problems from the end-of-chapters of the textbook as possible.</li><li>• The software <b>Thermoflex</b> (<a href="https://www.thermoflow.com/ServiceCenter/Trial">https://www.thermoflow.com/ServiceCenter/Trial</a>) will be used for the Project.</li><li>• The problem sessions will be conducted online at 13:00-16:00</li></ul>