MAK4482 Industrial Automation Group (1 and 2)
SYLLABUS

Semester: Spring (2nd) 2021-2022
Lecture: Wednesday, 09.00 – 10:50, Online (G1), Wednesday, 11.00 – 12:50, Online (G2),
Instructor: Dr. İlkay KURT
Office: V-210 Yildiz Campus
Office hours: Monday, 15:00 – 17:00, Wednesday, 13:00 – 15:00, or by appointment
Phone: 0212 383 29 55
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Textbook:
- Programmable Logic Controllers, Frank D. Petruzella, 5th Edition, McGraw-Hill Education.

Other Sources:
- Panasonic Programmable Controller FP Series Programming Manual
- Programmable Controller FPWIN Pro7 Introduction Guidance

PLC Software:
- Control FPWIN Pro

Weekly Subjects

Week	Subject	Related Preparation
1	Introduction to Industrial Automation and Programmable Logic Controllers (PLC)	Chapter 1
2	PLC Hardware Components	Chapter 2
3	Number Systems and Codes	Chapter 3
4	Fundamentals of Logic	Chapter 4
5	Basics of PLC Programming	Chapter 5
6	Basics of PLC Programming	Chapter 5
7	Developing Fundamental PLC Wiring Diagrams and Ladder Logic Programs	Chapter 6
8	1st Midterm Exam	-
9	Programming Timers	Chapter 7
10	National Holiday	-
11	Programming Counters	Chapter 8
12	Program Control Instructions	Chapter 9
13	Data Manipulation Instructions	Chapter 10
14	Math Instructions	Chapter 11
15	Final Exam	-

Evaluation System

Activities	Percentage of Grade
Laboratory	30
1st Midterm Exam	30
Final Exam	40
Total	100