Course Syllabus

Code - Course Title	**EİD204U - Electromechanical Control Systems**
Course Type	IV. SEMESTER
Laboratory + Practice	0+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. HAKAN DAL

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	None
Recommended Resources	Text book: Electromechanical control systems.
Work Placement	Bu ders için uygun değil .

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Asynchronous Motors	
Week - 2		Control circuit elements-I: Contact:Switch-Limit Switch-Röle	
Week - 3		Control circuit elements-I:Time relays-Bimetal-Thermostat-Packet Switch	
Week - 4		Control Circuit Elements-II:Contactor-Selenoid Valve-Fuses-Protection relays-Thermistor	
Week - 5		Motion Systems: Direct, Discrete, Continuous Operations-Sealing	
Week - 6		Motion Systems: Discrete and Continuous Operation-Buton Control- Packet Switch Control- Remote Control	
Week - 7		Midterm 1	
Week - 8		Changing the Direction of Rotation: Mechanical Locking-Buton Locking- Electrical Locking	
Week - 9		Changing the Direction of Rotation: Applications	
Week - 10		Operating Techniques: Operating with Resistance-Operating with Auto Transformer- Star_Triangle Operating -Unit Level Operating -Automatic Operating - Two Level Operating-Operating with Packet Switch	
Week - 11		Breaking Techniques: Mechanical Breaking-Dynamic Breaking-Breaking with Shoe-Sudden Breaking	
Week - 12		Using PLC in Control Circuits:PLC Commands-Programming PLC	
Week - 13		Using PLC in Control Circuits:Applications	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Final Exam	

Learning Outcomes

#	Learning Outcome
1	Improving the ability to use theoretical knowledge in practice
2	Improving the professional practice problems identification and solving skill

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	30
Final Exam	1	70
	Sum (%)	**100**