Course Syllabus

Code - Course Title	**EİD231U - Electric Energy Production, Transmission and Distribution**
Course Type	III. 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	There is no recommended optional programme component for this course.
Recommended Resources	Elektrik Enerjisi, Üretimi, İletimi ve Dağıtımı, AÖF Yayını No:2728
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Electrical Energy, Generating Electrical Energy, Electromagnetic Induction, Generators	
Week - 2		Transmission and Distribution Networks, Energy Transmission Lines, Network Line Constants	
Week - 3		Switchyard and Substations, Switchyard and Substation Equipment	
Week - 4		Aerial Line Conductors, Underground Cables	
Week - 5		Questions and Answers	
Week - 6		Questions and Answers	
Week - 7		Midterm Exam	
Week - 8		Midterm Exam Questions and Answers	
Week - 9		Electric Poles, Traverses, Insulators	
Week - 10		Low Volage Networks, Transformers, Reactive Power Compensation in Distribution Networks	
Week - 11		Cogeneration, Autoproducer Applications	
Week - 12		Hybrid Energy Systems	
Week - 13		Questions and Answers	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Final Exam	

Learning Outcomes

#	Learning Outcome
1	Learns electrical energy properties,
2	Learns electromagnetic induction
3	Knows electricity transmission and distribution
4	Define aerial line conductors and underground cables.
5	Knows reactive power compensation.
6	Can define hybrid energy systems.

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**