Course Syllabus

Code - Course Title	**EİD184U - Circuit Analysis Laboratory**
Course Type	II. SEMESTER
Laboratory + Practice	0+0
ECTS	**7.0**
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	Bu dersi alan/alacak öğrencilerin EİD101U DEVRE ANALİZİ, EİD211U ELEKTRİK ENERJİSİ ÜRETİMİ, EİD201U ELEKTRİK MAKİNALARI ve EİD208U ELEKTRİK ENERJİSİ İLETİMİ VE DAĞITIMI derslerini de alması önerilir
Recommended Resources	Kul M., \\\"Devre Analizi Laboratuvarı\\\",, T. C. Anadolu Üniversitesi yayınları, Açıköğretim Fakültesi yayını no. 1696, 2012, 01/11/2012
Work Placement	There are no internships or practices required for the students to attend the course

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Resistances in Identifying and Setting up a Circuit with Breadboard	
Week - 2		Resistances in Identifying and Setting up a Circuit with Breadboard	
Week - 3		Equivalent Resistance	
Week - 4		Voltage and Current Measurement	
Week - 5		Kirchhoff Laws Applications	
Week - 6		Thevenin Theorem Applications	
Week - 7		Direct current RC Circuit	
Week - 8		Direct current RC Circuit	
Week - 9		Oscilloscope Usage and DC/AC Voltage Measurement	
Week - 10		Oscilloscope Usage and DC/AC Voltage Measurement	
Week - 11		Alternate Current RLC Circuits	
Week - 12		Alternate Current RLC Circuits	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		High and Low Frequency Filters	
Week - 14		High and Low Frequency Filters	

Learning Outcomes

#	Learning Outcome
1	Students will be able to read resistances.
2	Students will be able to circuit with the breadboard.
3	Students will be able to calculate equivalent resistance, voltage and current measurements.
4	Students will be able to practice Kirchhoff's Laws.
5	Students will be able to apply about Thevenin Theorem.
6	Students will be able to set up a Direct Current RC Circuit.
7	Students will be able to use Oscilloscope and DC / AC Voltage Measurement.
8	Students will be able to establish RLC Circuits in Alternative Currents.
9	Students will have knowledge of low and high frequency filters.

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**