

ELECTRICAL INSTALLATIONS

1	Course Title:	ELECTRICAL INSTALLATIONS
2	Course Code:	EEM3501
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. MURAT UYAR
15	Course Lecturers:	Öğr.Gör.Dr. Okan SÜLE
16	Contact information of the Course Coordinator:	E-posta: muratuyar@uludag.edu.tr Tel: (224) 294 0769 Adres: Elektrik-Elektronik Müh. Bölüm Binası, 322
17	Website:	http://ee.uludag.edu.tr/?page_id=7
18	Objective of the Course:	Providing basic information about all system elements and mathematical calculations involved in the process from production to consumption of electricity.
19	Contribution of the Course to Professional Development:	To be able to follow innovations and apply them in the field by using the competence of collecting information, researching and analyzing them.
20	Learning Outcomes:	
	1	Ability to make cost analysis according to the type of power plant where electricity is produced
	2	Learning the functions of the parts in the system and mathematically revealing the current, voltage and phase relationships
	3	To be able to design the relationship between electricity generation and the end user by revealing the necessary calculations and appropriate system elements.
	4	Recognition of earthing and earthing types
	5	To be able to calculate the voltage drop and percentage loss within the limits of the regulation on distribution systems and networks
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Basic information about electrical facilities	
2	Electricity cost calculations	
3	Power calculation in three phase systems: active and reactive power	
4	Three phase systems, star, delta connection	
5	Reactive Power Compensation	
6	Electric networks: Interconnected and special network types	
7	Examination of energy transmission lines	
8	Conductors	
9	high voltage tower	
10	Insulators	
11	high voltage circuit breaker and disconnecter	
12	Bus and bus systems	
13	Investigation of Current and Voltage Transformers	
14	Examination of grounding systems	

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation is carried out according to the principles of Bursa Uludağ University Associate and Undergraduate Education Regulation.

24 ECTS / WORK LOAD TABLE

[illegible]

ÖK2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			