HIGH VOLTAGE TECHNIQUES									
1	Course Title:	HIGH VOLTAGE TECHNIQUES							
2	Course Code:	EEM4502							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	4.00							
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 to face						
14	Course Coordinator:	Öğr. Gö	r. OKAN SÜLE						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Öğr. Gör. Dr. Okan SÜLE E-posta:osule@uludag.edu.tr Tel: (224) 294 21 53 Adres: Elektrik-Elektronik Mühendisliği bölümü, No: 519							
17	Website:								
18	Objective of the Course:	Introduction to events occurring at high voltages, realization of analysis and design of equipment which operating at high voltage. To teach overvoltage sources and its protections methods							
19	Contribution of the Course to Professional Development:	To have extensive knowledge about the strength and charging and discharging phenomena of electrical cables carrying high currents.							
20	Learning Outcomes:								
		1	Adequate knowledge about high voltage topics (issues) Skills for modeling and solving engineering problems using theoretical and practical information in these fields						
		2	Detection, description formulation and solving skills of problems in the field of high voltage; to this end, selection and application skills of appropriate analyzing and modeling methods						
		3	Designing skill, process, equipment or product in the field of high voltage by fulfilling specific requirements in realistic criterions. to this end, application skills of modern designing methods						
		4	Development, selection and using skills of modern techniques and equipments for high voltage applications. Ability to use information technologies effectively						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
Course Content:									

Week	Theoretical					Pr	Practice											
1	Electrostatic fields																	
2	Planar electrode system																	
3	Spherical electrode system																	
4	Cylindrical electrode system																	
5	Laye	red e	electro	ode sy	stems	6												
6	Multilayered electrode systems																	
7	Conf	orm	transf	orm														
8	Conf	orm	transf	orm														
9	Ioniz	atior	n and	discha	arge													
10	Disch	harge	e evei	nts														
11	High	volta	age m	easur	emen	t												
12	Over	volta	age ar	nd pro	tectior	า												
13	High∙	-volta	age tr	ansmi	ssion	system	n elem	nents										
14	High	volta	age ge	enerat	ion ar	nd trans	smissi	ion										
22	Textbooks, References and/or Other Materials:						İst 2. İst 3.	 Özkaya, M., Yüksek Gerilim Tekniği 1, Birsen Yayınevi, İstanbul, 2008. Özkaya, M., Yüksek Gerilim Tekniği 2, Birsen Yayınevi, İstanbul, 2005. Kalenderli, Ö., Kocatepe, C., Arıkan, O., Çözümlü Problemlerle Yüksek Gerilim Tekniği, Birsen Yayınevi, 										
Activites							Number				Duration (hour)			Total Work Load (hour)				
Theore	EARN tical	NING	ACT	VITIES)		R	OWRE	= VV	weight 14			3.00			42.00		
Practica	als/La	abs								0			0.00	0.00			0.00	
Qelifzstu							0.	0.00			3.00	3.00						
Homew	Homeworks							0			0.00			0.00				
Piropeter							60	60000			0.00	0.00						
Field St	eld Studies								0				0.00					
(Clichterno	াঞ্চাচাগ্রেকাজ Term (Year) Learning Activities to							40	40100 16.00						16.00			
Others	() 5								0			0.00	0.00			0.00		
Einpatrie	ariestions of Final Exam to Success Grade							60	60100			20.00	20.00			20.00		
Total W	Total Work Load							120.00										
Tretason	Tretas werker dn 30 Evaluation Techniques Used in the						ne It i	It is carried out according to the principles dfB0rsa Uluda						Jludağ				
ECTS (4	4.00		
24	ECT	S/				TAB												
25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	C)	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	C)	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK4	C)	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	

LO: Learning Objectives PQ: Program Qualifications										
Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High					