	COMPUTER AID	ED PC	WER SYSTEM ANALYSIS							
1	Course Title:	COMPU	TER AIDED POWER SYSTEM ANALYSIS							
2	Course Code:	EEM5604								
3	Type of Course:	Optional								
4	Level of Course:	Second Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	6.00								
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 f	face							
14	Course Coordinator:	Doç. Dr.	MURAT UYAR							
15	Course Lecturers:									
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:	This course provides the necessary theoretical materials for the calculation and analysis of power systems.								
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	Modeling balanced and unbalanced power systems							
		2	Providing the ability to make failure analysis in power systems							
		3	Knowledge and ability to use modern engineering tools and methods							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		purse Content:								
Week	Theoretical		Practice							
1	Computer Modeling Techniques of F Systems	ower								

2	Mat	Matlab Simpower Interface																	
3	Mod	odeling Power Systems in Matlab																	
4		Computer Applications of Symmetrical Components																	
5	Obt	aining	g the E	Bus Ad	mitta	nce Ma	atrix												
6	Obt	aining	g Bus	Imped	lance	Matrix													
7	Usa	ge ar	nd App	plication	ns of	Bus M	latrice	S											
8	Con	npute	r Aide	ed Syn	nmetri	ic Faul	t Anal	ysis											
9	Con	Computer Aided Asymmetric Failure Analysis																	
10	Con	Computer Aided Asymmetric Failure Analysis																	
11	Loa	Load Flow Analysis and Numerical Methods																	
12	Loa	Load Flow Analysis and Numerical Methods																	
13	Loa	Load Flow Analysis and Numerical Methods																	
Activit	14 Computer Aided Stability Analysis Ctivites									Numl	,	nutation					Load (hour)		
										0	., Com	Pulation		13Methods for Elect #2F00wer 0.00 0.00					
	racticals/Labs								ΤΔ	A fa2Basım Yayım, 2009							84.00		
	Self study and preperation Homeworks									5							20.00		
	EARNING ACTIVITIES NUMBE									_				5.00					
Field S	<u>IR</u>									0			0.00			0.00			
Midtern										5.00			2.00			2.00			
Others										0			0.00	0.00					
FIRALE									6	0.00			2.00		2.00				
	al Work Load								10	<i>)</i> .00					182.00				
Total w	Contribution of Term (Year) Learning Activities to							4	0.00						6.00				
	ECTS Credit of the Course														6.00				
Contrib	tribution of Final Exam to Success Grade								6	60.00									
Total	ıl								10	100.00									
Course								th	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.										
24																			
25			(CON	TRIE	BUTIO	N OI				OUTC	OME	S TO I	PROC	BRAM	IME			
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				L		L	L												

ÖK2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖКЗ 0 5 0																
Contrib 1 very low 2 low ution Level:						3 Medium			4 High			5 Very High				