ELECTROMAGNETIC WAVE THEORY										
1	Course Title:	ELECTR	OMAGNETIC WAVE THEORY							
2	Course Code:	EEM220	2							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	ele							
5	Year of Study:	2								
6	Semester:	4								
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 f	ace							
14	Course Coordinator:	Doç.Dr.	UĞUR YALÇIN							
15	Course Lecturers:	Yrd. Doç.Dr. ESİN KARPAT Öğr. Gör. Dr. Sevim KURTULDU								
16	Contact information of the Course Coordinator:	uyalcin@uludag.edu.tr, +90 (224) 2942023, Uludağ Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Müh. Bölümü Görükle / BURSA								
17	Website:									
18	Objective of the Course:	Historical development of electromagnetism, to search behavior of electromagnetic waves.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	The gain of ability to model and solve electromagnetic waves problems using theoretical knowledge.							
		2	Gain the ability to identify, model, and solve complex engineering problems on electromagnetic waves; the ability to select and apply appropriate analysis and modelling methods for these problem.							
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21	Course Content:									
		Co	ourse Content:							
	Theoretical		Practice							
1	Faraday's Law of Electromagnetic In A Stationary Circuit in a Time-Varying Magnetic Field.									

2		ng (Magnet arying													
3	Max	well'		ations	. Elec	gral Fo tromaç													
4	Pote Equa			tions.	Soluti	on of V	Vave												
5	Wav	es ir trom	n Loss	less N	/ledia.	gnetic: Trans Polariza	verse		е										
6	Plan	e W	aves i	n Loss	sy Me	dia.													
7			s Diele elocity		. Goo	d Con	ductor	S.											
8			Electro Vecto		etic P	ower a	and the	Э											
9	Midte	erm	Exam	+ Rev	view c	of past	lecture	es											
10	Norm Bour			nce of	Plane	Wave	s at P	lane											
11	Oblic Bour			nce of	Plan	e Wave	es at F	Plane											
12	Tran Para			Line E	quatio	ons and	d												
13			naracte ssion I		s on a	ın Infin	ite and	d Finit	е										
	Activites									Number							Total Work Load (hour)		
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Practic	Practicals/Labs									0	лпачн	Cuk Dar	0.00			0.00			
Self stu	dy ar	nd p	repera	ation					3.	3 Elements of Electron				agnetics, Sadiku ivi 3.00			42.00 Eaition.		
Homev	vorks									10				2.00			20.00		
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Others										0					0.00				
Final	work- xams	oroje	ect				U		U	0.90)	23.00				
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Total w	vork lo	ad/	30 hr						T	0.00						5.00			
ECTS	Credit	of t	he Co	urse												5.00			
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Total	Total								10	100.00									
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				L	1	L	<u> </u>	L		1				1]	1			

ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contrib ution Level:	ution					1	s P Medi			m Qu 4 Higl		itions		y High		