SATELLITE COMMUNICATION SYSTEMS									
1	Course Title:	SATELL	TE COMMUNICATION SYSTEMS						
2	Course Code:	EEM422	0						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	ele						
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 f	ace						
14	Course Coordinator:	Prof. Dr.	UĞUR YALÇIN						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	uyalcin@uludag.edu.tr, +90 (224) 2942023, Bursa Uludağ Üniversitesi, Mühendislik Fak., Elektrik-Elektronik Müh. Bölüm Görükle / BURSA							
17	Website:								
18	Objective of the Course:	The acquisition of basic knowledge about satellite communication systems and its technologies							
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							
20	Learning Outcomes:								
		1	The gain of ability to model and solve satellite communication systems problems using theoretical knowledge						
		2	Gain the ability to identify, model, and solve complex engineering problems on satellite communication systems; the ability to select and apply appropriate analysis and modelling methods for these problem						
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21									
107	Course Content:								
	Theoretical		Practice						
1	The basic principles of satellite communications.								
2	The origin of the satellites.								
3	Communication via satellites.								

4	The characteristic features of communication satellites.															
5	The orbits of the satellites.															
6	Satellite networks.															
7	Satellite power systems.															
8	Satellite links.															
9	The basic principles of earth stations.															
10	Satellite link equations.															
11	Signal to noise ratio, interference ratio.															
12	Satellite communications networks and															
13	systen Satelli	ns. te comn	nunicat	ion sy	/stems	codi	na									
	techni	ques.														
14	Mobile	satellite	e syste	ms ar	nd arch	nitectu	re.									
22	Materials:							bas 2.3 Ma 3.3 Te En 4.3 Loi	1. Uydu ve Hücresel Mobil Haberleşme Sistemleri, 2. baskı, Birsen Yayınevi, 2002. 2. Satellite Communication Engineering, New York, USA: Marcel De. Incorporated, 2002. 3. Satellite Communications Systems, Techniques and Technology, John Wiley & Sons. Ltd., West Sussex, England, 2003. 4. Satellite Communications Systems, Mac. Pres Ltd., London, England, 1999.							
A ativ (it													ions Systems & Technology Duration (hour) Total V			
Activites								Number			Dura	Duration (nour)			Load (hour)	
TEBM LEARNING ACTIVITIES NUMBE						WE	독頃HT 3.00 42.00			42.00						
Practica	Practicals/Labs							(0 0.00				0.00			
Self zstu	ıdy and	preper	ation			0)	0.0	o. đ đ			2.00			28.00	
Homew	meworks							(0 0.00			0.00				
Project	\$am					1		60	60900 0.00				0.00			
Field S	Studies							()			0.00			0.00	
Midtern	ribution of Term (Year) Learning Activities to						40 ²	.00			25.00			25.00		
Others								()			0.00			0.00	
Einatr	nadr Examons of Final Exam to Success Grade						60	60100 25.00					25.00			
Total W	otal Work Load													120.00		
Total w Measur	Total work load/30 hr Measurement and Evaluation Techniques Used in the						e Mi	Midterm Exam and Fina Exam						4.00		
		f the Co		_ A D	TAD										4.00	
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25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PC	Q1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	l _	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	U														<u> </u>	
			LO: L	.earr	ning C	Objec	ctive	s F	PQ: P	rogra	ım Qu	alifica	tions	•		

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