COMMUNICATION ELECTRONICS

1	Course Title:	COMMUNICATION ELECTRONICS
2	Course Code:	EEM4316
3	Type of Course:	Optional
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
14	Course Coordinator:	Öğr. Gör. Dr. ERDEM ÖZÜTÜRK
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	E-posta:ozuturk@uludag.edu.tr Tel: (224) 294 2021 Adres: Elektronik Mühendisliği Bölümü 1. Kat, No:111
17	Website:	
18	Objective of the Course:	To give necessary knowledge and to earn the ability to the student that he can analyze and design some basic communication circuits like wide band amplifiers, resonant circuits and narrow band amplifiers (tuned amplifiers).
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Ability to apply theoretical and practical knowledge for modeling and solving engineering problems in the field of communication electronics
	2	Ability to solve, formulate and identify complex engineering problems encountered in the field of communication electronics by selecting the appropriate analysis and modeling methods .
	3	Ability to design complex system in communication electronics under realistic constraints and conditions by applying modern design methods
	4	Ability to develope, select and use modern techniques and tools for communication electronics.
	5	Ability to interpret the results and collect data for analysing engineering problems in the field of communications electronics
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21	Course Content:	
	Course Content:	

Week	Theoretical	Practice
1	Wide Band Amplifiers	
2	Wide Band Amplifiers	
3	Wide Band Amplifiers	
4	Resonant Circuits	
5	Resonant Circuits	
6	Tuned Amplifiers	
7	Tuned Amplifiers	
8	1. Midterm Exam + Review of Past Lecturers	
9	Tuned Amplifiers	
10	Problem Solving	
11	2. Midterm Exam + Review of Past Lecturers	
12	Problem Solving	
13	Tuned Amplifiers	
14	Problem Solving	

22	Textbooks, References and/or Other Materials:	1. Elektronik Devreleri, Duran Leblebici, Seç Yayın Dağıtım, 1996. 2. Elektronik Devreleri, M. Sait Türköz, Birsen Yayınevi, 2004. 3. Modern Elektronik Sistemler, Halit Pastacı, YTÜ, 1996. 4. Electronic Communication (modulation and transmission), R.J. Scohenbeck, 5.Elektronik Devreler, Halit Pastacı, Yıldız Teknik Üniversitesi, İstanbul, 1998.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	2	50.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	50.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	2	20.00	40.00
Others	0	0.00	0.00
Final Exams	1	27.00	27.00
Total Work Load			165.00
Total work load/ 30 hr			5.50
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**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
ÖK3	0	0	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**