SENSORS AND TRANSDUCERS										
1	Course Title:	SENSOF	RS AND TRANSDUCERS							
2	Course Code:	EMEZ00	2							
3	Type of Course:	Optional								
4	Level of Course:	Short Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	YOK								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Öğr.Gör.	ÖMER NURİ ÇAM							
15	Course Lecturers:	ÖĞR. G	ÖR. ÖMER NURİ ÇAM							
16	Contact information of the Course Coordinator:	onc@ulu	ıdag.edu.tr							
17	Website:									
18	Objective of the Course:		lent, every kind of sensor, use the relevant circuits, gain ge and skills.							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Data Acquisition							
		2	Sensor Characteristics							
		3	Physical Principles of Sensing							
		4	Interface Electronic Circuits							
		5	Motion,Occupancy, position and displacement sensors							
		6	Velocity,acceleration, force,strain sensors							
		7	Pressure, flow sensors							
		8	Humidity, acustic, light sensors							
		9	Temperature, radiation sensors							
	-	10	Sensor materials and technologies							
21	Course Content:									
\A.	Course Content:									
	Theoretical		Practice							
1	Data acquisition									
3	Physical Stimulus Sensor Characteristics									
4	physical prinsibles of sensing									
5	sensors electronic interfaces									
6	motion, occupancy sensors									
7	displacement, level, position sensors	3								
	alapiacement, level, position sensors	,								

8	veloc	velocity, acceleration sensors																		
9	force	orce, pressure, , strain etc sensors																		
10	flow	ow sensors																		
11	acus	custic sensors																		
12	light	light detectors																		
13	temperature, humidity, moisture sensors																			
14	chen	chemical sensors.																		
22	Textbooks, References and/or Other Materials:								На	Handbook of Modern Sensors book.										
23	Asse	sme	nt						•											
TERM I	LEAR	NING	ACTI	VITIES			N R	UMBE	WE	IGHT										
Midterr	m Exa	ım					1		30	.00										
Quiz							0		0.0	00										
Home	work-	proje	ct				1		10	.00										
Final E	xam						1		60	.00										
Total							3		10	0.00										
Contrib			erm (\	∕ear) l	Learn	ing Act	ivities	to	40	40.00										
Contrib	oution	of F	inal E	xam to	Suc	cess G	rade		60	60.00										
	Activites								Number				ition (Total Work Load (hour)						
Th eo re	e EG1	S/	WOI	RK L	OAD	TAB	LE		•	14		2.00				28.00				
Practic	cals/La	abs							,	14			2.00	2.00						
Self stu	f study and preperation								1	14			2.00			28.00				
Homev	neworks								•	1			16.00	16.00						
Project	ects									0			0.00			0.00				
Field S	eld Studies								(0			0.00	0.00			0.00			
Midter	lidterm exams								7	1			16.00			16.00				
Others	Others								(0			0.00	0.00			0.00			
Final E	inal Exams								1	1			16.00	16.00			16.00			
Total V	Total Work Load														148.00					
Total work load/ 30 hr														4.40						
ECTS	ECTS Credit of the Course													3.00						
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	l _	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
ÖK1	1		1	1	2	2	4	4	4	3	2	4	0	3	0	0	0			
ÖK2		ı	1	1	2	2	4	4	1		2	4		0			0			
UK2	1	l	1	1	2	2	4	4	4	3	2	4	0	0	0	0	0			

ÖK3

ÖK4

ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	ution			2 low			3 Medium			4 High				5 Very High			