IN	TRODUCTION TO ELE	CTRIC	CAL-ELECTRONIC ENGINEERING		
1	Course Title:	INTROD	UCTION TO ELECTRICAL-ELECTRONIC ENGINEERING		
2	Course Code:	EEM150	1		
3	Type of Course:	Compuls	sory		
4	Level of Course:	First Cyc	ele		
5	Year of Study:	1			
6	Semester:	1			
7	ECTS Credits Allocated:	3.00			
8	Theoretical (hour/week):	2.00			
9	Practice (hour/week):	0.00			
10	Laboratory (hour/week):	2			
11	Prerequisites:				
12	Language:	Turkish			
13	Mode of Delivery:	Face to f	ace		
14	Course Coordinator:	Öğr.Gör.	Dr. İSMAİL TEKİN		
15	Course Lecturers:	Öğr.Gör.	Dr. SEVİM KURTULDU		
16	Contact information of the Course Coordinator:	Öğr. Gör. Dr. İsmail TEKİN Uludağ Üniversitesi Mühendislik Fakültesi Elektrik -Elektronik Mühendisliği Bölümü Görükle Kampüsü Bursa			
17	Website:				
18	Objective of the Course:	electrica	of this course is to learn to freshman students basics of lengineering and electronic circuits and also, to introduce ering, working at the laboratory.		
19	Contribution of the Course to Professional Development:				
20	Learning Outcomes:				
		1	Students should introduce to focus of Electrical Engineering.		
		2	Students should learn the voltage, current, power and energy.		
		3	Students should learn the Kirchhoff laws.		
		4	Students should improve the laboratory skills.		
		5	Students should introduce to basic electronic circuit devices such as resistor, capacitor, inductor, transistors etc.		
		6	Students should introduce the analog and digital signals.		
		7	Students should introduce to laboratory equipment's such as oscilloscope, signal generator, power supply, multimeters.		
		8			
		9			
		10			
21	Course Content:				
		Co	ourse Content:		
Week	Theoretical		Practice		

1	Basic working are of electrical engine	eering	Introdunction laboratory devices such as oscilloscope, multimeter, power supply, signal generator, breadboard					
			and lobaratory rules.					
2	Organization of Electrical and Electro Engineering Department.	onics	Introdunction laboratory devices such as oscilloscope, multimeter, power supply, signal generator, breadboard and lobaratory rules.					
3	Current, voltage, power, energy.		Introdunction laboratory devices such as oscilloscope, multimeter, power supply, signal generator, breadboard and lobaratory rules.					
4	Electrical signals.		Introdunction laboratory devices such as oscilloscope, multimeter, power supply, signal generator, breadboard and lobaratory rules.					
5	Kirchhoff current and voltage laws.		constructionof a circuit on breadboard.					
6	Basics of the laboratory working proc	edure.	Learning how to soldering and desoldering.					
7	Midterm exam.		exam break					
8	Resistors, capacitors, inductors.		exam break					
9	Diode and transistors.		Implementation of radio control of robot car.					
10	Integrated circuits and packaging.		Implementation of radio control of robot car.					
11	Electronic circuit development in brea	adboard.	Implementation of receiver module of robot car.					
12	Analog signals and systems.		Implementation of receiver module of robot car.					
13	Digital signals and systems.		Implementation of receiver module of robot car.					
14	Amplification, filtering and oscillation.		programming of radio transmitter and receiver, testing the robot car.					
22	Textbooks, References and/or Other Materials:		 Practical Electronics for Invertors, Paul Scherz, McGraw Hill, third edition, 2012. Practical Electronics Handbook, Sixth Edition, 2007. Lecture notes. 					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	30.00					
Quiz		0	0.00					
Home \	work-project	3	20.00					
Final E	xam		50.00					
Total		5	100.00					
	ution of Term (Year) Learning Activitions S Grade	es to	50.00					
Contrib	ution of Final Exam to Success Grade	9	50.00					
Total			100.00					
Measui Course	rement and Evaluation Techniques Us	sed in the						
24	ECTS / WORK LOAD TABLE							

															Load (hour)	
Theoretica	l															
Practicals/I	Labs															
Self study	and p	repera	ation													
Homework	S															
Projects																
Field Studi	es															
Midterm ex	ams															
Others																
Final Exam	าร															
Total Work	Load	d														
Total work	load/	30 hr														
ECTS Cred	dit of t	the Co	urse												3.00	
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OKI	ľ	ľ								l		l				
ÖK2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	0														
ÖК2 ÖК3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2 ÖK3	3 0 0	0 0	0	0 0	0	0	0 0	0 0	0 0	0 0	0	0	0	0	0	0
ÖK2 ÖK3 ÖK4	3 0 0	0 0 0	0 0 0	0 0	0 0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
ÖK2 ÖK3 ÖK4 ÖK5	3 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 2 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 rogra	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0

Number

Duration (hour) Total Work

Activites