	FUNDAMENTALS OF	ELEC	CTRICITY AND ELECTRONICS						
1	Course Title:	FUNDAN	MENTALS OF ELECTRICITY AND ELECTRONICS						
2	Course Code:	BSM2806							
3	Type of Course:	Compuls	ory						
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	1.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. ALİ VARDAR							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Prof. Dr. Ali VARDAR e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:								
18	Objective of the Course:	Used today in the field of agriculture and animal husbandry technologies in electricity, electronics and automation applications are given frequently. The aim of the course in this context, the basic information about electricity and electronics to teach basic skills to teach, and in this regard.							
19	Contribution of the Course to Professional Development:	The course contributes to the student's understanding of the infrastructure of agricultural electricity, electronics and automation.							
20	Learning Outcomes:								
		1	Understand the concepts and importance of electricity and electronics						
		Recognize basic electrical and electronic circuit ele and their features							
		3	Establish basic electrical and electronic circuits						
		4							
		5							
		6							
		7							
		8							
		9							
04	Course Content	10							
21	Course Content:	0-	ureo Contonti						
Mook	Theoretical	Co	ourse Content:  Practice						
	Introduction		Lectures on the analysis of expectations						
1									
2	Electrical Principles Homework topics and information given								

	Electrical Management of the		Della contract					
3	Electrical Measurement units		Problem solutions					
4	Ohm's Law		Problem solutions					
5	Electrical measuring instruments		Measurement applications					
6	Electrical Circuits		Electrical circuit applications					
7	Electrical Circuits		Electrical circuit applications					
8	And Principles of Magnetism		Electrical circuit applications					
9	Repeating courses and midterm example and midterm example.	m	Electrical circuit applications					
10	Electronic circuit elements		Examination of the electronic circuit components					
11	Electronic circuit elements		Examination of the electronic circuit components					
12	Various electronic circuitry		Circuit applications					
13	Various electronic circuitry		Circuit applications					
14	General Review		Circuit applications					
22	Textbooks, References and/or Other Materials:		1. Vardar A., 2018. Elektrik ve Elektroniğin Temelleri, BUÜ Ders Notları No: 114, Bursa. 2. Çelebi H.H., 1999. Elektrik Bilgisi, Yüce yayınları, İstanbul. 3. Özkan T., 1995. Temel Elektronik, Kayhan Matbaası, İstanbul. 4. Ufuktepe Y. Ve Bozdemir S., 1997. Elektromanyetik Teori, Baki Kitabevi, Adana. 5. Boylestad R. Ve Nashelsky L., 1994. Elektronik Elemanlar ve Devre Teorisi, Evren Ofset, Ankara. 6. Bal G., 2001. Doğru Akım Makinaları ve Sürücüleri, Seçkin Yayıncılık, Ankara.					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	10.00					
Quiz		0	0.00					
Homew	orks, Performances	1	30.00					
Final Ex	kam	1	60.00					
Total		3	100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contrib	ution of Final Exam to Success Grade	9	60.00					
Total			100.00					
Measurement and Evaluation Techniques Used in the Course			Midterm Exam, Practice Exam and Final Exam					
24	ECTS / WORK LOAD TABLE	_						

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	2.00	28.00
Homeworks, Performances	1	30.00	30.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			121.00
Total work load/ 30 hr			4.03
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME  QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	4	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	3	0	5	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution 1 very low Level:		2	2 low 3			3 Medium		4 High			5 Very High					