	STATISTICAL DATA ANALYSIS										
1	Course Title:	STATIS	TICAL DATA ANALYSIS								
2	Course Code:	END 515	51								
3	Type of Course:	Optional									
4	Level of Course:	Second	Cycle								
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	7.50									
8	Theoretical (hour/week):	3.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Prof. Dr.	SEDA ÖZMUTLU								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	seda@uludag.edu.tr 224-294-2085 Endüstri Mühendisliği Bölümü Görükle Bursa									
17	Website:										
18	Objective of the Course:	To convey statistical analysis techniques to graduate level students for them to use in their applied or theoretical studies.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Ability to identify and solve real-life problems that contain uncertainty								
		2	Ability to analyze collected data from designed or undesigned experiments								
		3									
		4									
		5									
		6									
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		9									
		10									
21	Course Content:										
		Co	ourse Content:								
	Theoretical		Practice								
1	Introduction to Fundamentals of Stat	istics									
2	Measures of Central Tendency and Dispersion										
3	Depicting statistical data with graphic	cs									
4	Proability distributions										

_	-			Hypothesis testing – statistical estimation														
6	Introduction to regression analysis																	
7	Advanced regression analysis																	
8	Repeating courses and midterm exam																	
9	Correlation measures																	
10	One-way ANOVA																	
11	Mult	i-fact	tor AN	IOVA														
12	ANCOVA																	
13	Nonparametric methods																	
14	Clustering-classification methods																	
								T										
22	Textbooks, References and/or Other Materials:								Montgomery, D. C. "Design and Analysis of Experiments", Sixth Ed., John Wiley & Sons, 2004.									
									Walpole, Myers, Myers and Ye, Probability and Statistics									
																Stics		
										or Engineers and Scientists, Prentice-Hall, 2011								
	Asse																	
TERM L	TERM LEARNING ACTIVITIES NUMBE							WEIGHT										
Midterm								20.00										
Quiz	3								30.00									
									.00			-	/	'1				
Activit	es									Numb	er		Dura	ation (Total Work Load (hour)			
									Load (no						ioui)			
Fretrie	မြောင်းခြုံးပြုရာ of Term (Year) Learning Activities to								70	70140 3.00					42.00			
	iess Grade ticals/Labs									0			0.00	0.00			0.00	
	tudy and preperation									14			8 50				119.00	
Talal	meworks									5							50.00	
	eworks Surgement and Evaluation Techniques Used in the								0					0.00			0.00	
Course Field St	Se								0				0.00			0.00		
	erm exams													2.00			2.00	
Others									1	3						12.00		
Final Ex										1			3.00		3.00			
	Work Load												0.00			228.00		
	work load/ 30 hr															7.60		
	TS Credit of the Course														7.50			
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
		DO4	DO2	DO3	DO 4	DOF.	DOG	PQ7 F	200	POO	DO4	PQ11	BO12	DO4	PQ14	PQ15	PQ16	
		- Q I	r \(\(\(\) \)	CU3	F Q 4	רעט	רעס	FQ/ I	પ્	רעש	0	רעוו	רעוב	3	FQ14	רעוס	FUID	
ÖK1		0	5	5	0	0	0	0 5	5	5	0	5	5	0	0	0	0	
ÖK2		0	5	5	0	0	0	0 5	5	5	0	5	5	0	0	0	0	
				O- 1	Aarr	ing C)hio	ctives		 	roara	m Ou	alifica	tions	<u> </u>			
LO: Learning Objectives PQ: Program Qualifications																		
Contrib 1 very low ution Level:			2 low 3 l			3 N	led	ium	4 High			5 Very High						