PROBABILITY WITH APPLICATIONS								
1	Course Title:	PROBA	BILITY WITH APPLICATIONS					
2	Course Code:	END2027						
3	Type of Course:	Compuls	sory					
4	Level of Course:	First Cyc	ele					
5	Year of Study:	2						
6	Semester:	3						
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:	English						
13	Mode of Delivery:	Face to f	ace					
14	Course Coordinator:	Prof. Dr.	SEDA ÖZMUTLU					
15	Course Lecturers:	Öğr. Gör. Dr. Alkın Yurtkuran						
16	Contact information of the Course Coordinator:	Prof.Dr. Seda Özmutlu seda@uludag.edu.tr 0224-294-2085 Mühendislik Fakültesi Endüstri Mühendisliği Bölümü Görükle Bursa						
17	Website:							
18	Objective of the Course:	To convey the statistical and probabilistic techniques to undergraduate students for them to reach correct conclusions and make correct deductions on their studies including uncertainty and probability.						
19	Contribution of the Course to Professional Development:	To give the concept of uncertainty to students, to teach that uncertainty exists in business life; and also to give the ability to handle and measure uncertainty in real life						
20	Learning Outcomes:							
		1	Conveying the concepts of probability and uncertainty					
		2	Ability to analyze collected data					
		3	Ability to identify and solve real-life problems that contain uncertainty					
		4						
		5						
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		7						
		8						
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04	Course Content	10						
21								
\\/ a = 1	Theoretical	Co	ourse Content:					
	Theoretical		Practice					
1	Introduction to Statistics							
2	Sampling							

3	Measures of Central Tendency and Distibution																
4	Depicting Statistical Data with Tables and Graphs																
5	Permutation-Combination																
6	Introduction to Probability																
7	Probability Calculations and Problems																
8	Conditional Probability and Bayes Theorem																
9	Expected Value and Variance																
10	Introduction to Probability Distributions																
11	Discrete Probability Distributions																
12	Discrete Probability Distributions																
13	Cont	inuo	us Pr	obabili	ty Dis	tributio	ns										
14	·																
22	Textbooks, References and/or Other Materials:						Probability and Statistics for Engineers and Scientists, Walpole, Myers, Myers and Ye, Prentice Hall, 2011										
23	Asse	esme	ent														
TERM L	EAR	VING	ACTI	VITIES				NUMBE R	WE	IGHT							
Midtern	n Exa	ım						1	25.	.00							
Quiz								0	0.0	00							
Activites						1	Number Duration (hour)					Total Work Load (hour)					
Cheorie	tical	of T	erm (`	Year) I	Learn	ina Acti	vitie	s to	40	40.00			3.00			42.00	
	Practicals/Labs							_	0 0.00					0.00			
Selfitsito	Selfitsitually can of Frie pale Extarm to Success Grade							601	60100			5.14			71.96		
Homew	omeworks							C	0 0.00				0.00				
Preject	Meastrement and Evaluation Techniques Used in the							e Ελ	Exams and quizzez			0.00			0.00		
Field S	eld Studies								0.00					0.00			
Mi <b>2t</b> ern	Hern EGTS / WORK LOAD TABLE							1	1			2.00			2.00		
Others	ers							C	0			0.00			0.00		
Final E	l Exams						1	1 2.00				2.00					
Total W	al Work Load														117.96		
Total w	otal work load/ 30 hr													3.93			
ECTS (	S Credit of the Course												4.00				
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	5	5	0	0	0	0	0	0	)	0	0	0	0	0	0	0	0
ÖK2	C	)	0	0	5	0	0	0	)	5	0	0	0	0	0	0	0
ÖK3	C	)	0	5	0	5	0	0	)	0	0	0	0	0	0	0	0
				LO: L	.earr	ina O	bie	ctives	F	Q: P	rogra	ım Qı	L alifica	tions	<u> </u>	1	
LO: Learning Objectives PQ: Program Qualifications																	

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					