PROBABILITY AND STATISTICS

1	Course Title:	PROBABILITY AND STATISTICS
2	Course Code:	CEV2031
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. SELİM TÜZÜNTÜRK
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	E-posta : selimtuzunturk@uludag.edu.tr Telefon: 0 224 29 41152 Adres: Bursa Uludağ Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, Ekonometri Bölümü,16059, Görükle/Bursa.
17	Website:	
18	Objective of the Course:	To provide the knowledge and skills required to perform statistical analyzes in engineering applications.
19	Contribution of the Course to Professional Development:	Acquiring the knowledge and skills required to perform statistical analyzes in engineering applications.
20	Learning Outcomes:	

	1	Mastering the sampling design.
	2	Mastering data collection methods.
	3	Be aware of data entry, cleaning and preparation.
	4	Ability to apply basic statistical analysis methods and interpret the obtained findings.
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Statistical Research and Literature Review	Practice
2	Data, Data Types and Basic Concepts	Practice
3	Measurement	Practice
4	Basic Concepts	Practice
5	Sample, Sampling and Sampling Methods	Practice

6	Data Cleaning, Tables and Graphs	Practice	
7	Central Tendency	Practice	
8	Variability	Practice	
9	Causality, Types of Relationships in Statistics	Practice	
10	Indices	Practice	
11	Probability and Probability Calculations	Practice	
12	Distribution, Distribution Type and Probability Distributions	Practice	
13	Discrete Probability Distributions	Practice	
14	Continuous Probability Distributions	Practice	

22	Textbooks, References and/or Other Materials:	Tim Swartz, (2014), Introduction to Probability and Statistics, Pearson.

23	Assesment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	6.00	84.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

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

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