

## STATISTICS II

1	Course Title:	STATISTICS II
2	Course Code:	EKO2210
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
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:	No
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Dr. Öğr. Üyesi GÜLCAN PETRİÇLİ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	gulcanp@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Students will collect data from studies and data to transfer skills and knowledge required to implement the appropriate solution technique
19	Contribution of the Course to Professional Development:	Statistical methods and techniques of education is to give the students can apply to their fields.
20	Learning Outcomes:	
	1	To be able to have information about continuous probability distributions.
	2	To be able to understand the basic idea on statistics.
	3	To be able to become familiar with statistical terms,
	4	To be able to summarize data in a clear and understandable manner,
	5	To be able to Parameter estimation,
	6	To be able to make hypothesis testing about mean and ratio.
	7	To be able to gain experience in interpreting the results of statistical analysis,
	8	To be able to occupy statistical inferences of finding,
	9	
	10	
21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	Sampling Theory	
2	Statistical Estimation- Interval Estimation of Population Parameter	

3	Statistical Estimation- Interval Estimation of the difference between population parameters	
4	Statistical Decision Making- Hypothesis Tests for one population with the parameters	
5	Statistical Decision Making- Hypothesis Tests for the parameters of two populations	
6	Small Sampling Theory	
7	Chi-Square Tests: General Information and Chi-square goodness of fit	
8	Chi-Square Tests: Independent Test and Chi-Square Chi-Square Test of Homogeneity	
9	F Test and Analysis of Variance	
10	Regression and Correlation: General Definitions, Simple Linear Regression and Correlation	
11	Regression and Correlation: Multiple Linear Regression and Correlation	
12	Time Series Analysis: Basic Concepts And Trend Finding	
13	Time Series Analysis: Measurement of seasonal and business cycle	
14	Interpolation	

22	Textbooks, References and/or Other Materials:		1. Özer Serper, Uygulamalı İstatistik 2, Ezgi Kitabevi, 2004, Bursa. 2. Necmi Gürsakal, Çıkarımsal İstatistik, Dora Basım		
Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	3.00	42.00
23	Assesment				
Practicals/Labs			0	0.00	0.00
Self study and preperation		R	14	2.00	28.00
Homeworks			0	0.00	0.00
Quiz	Projects	0	0.00	0.00	0.00
Field Studies			0	0.00	0.00
Final Exam	Midterm exams	1	60.00	25.00	25.00
Others			0	0.00	0.00
Contribution of Term (Year) Learning Activities to Success Grade			40.00	25.00	25.00
Total Work Load					120.00
Contribution of Final Exam to Success Grade			60.00		4.00
Total work load/ 30 hr					
ECTS Credit of the Course					4.00
Measurement and Evaluation Techniques Used in the Course			Multiple choice test questions and written questions		

## 24 ECTS / WORK LOAD TABLE

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	1	4	2	1	1	3	3	1	1	1	1	1	0	0	0	0
ÖK2	4	4	4	2	3	3	3	3	4	4	4	4	0	0	0	0
ÖK3	4	4	4	2	3	3	3	3	3	3	4	4	0	0	0	0

ÖK4	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0
ÖK5	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0
ÖK6	4	4	4	4	3	3	3	3	4	4	4	4	0	0	0	0
ÖK7	4	4	4	3	4	4	3	3	4	4	4	4	0	0	0	0
ÖK8	4	4	4	2	3	4	3	3	4	4	4	4	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			