

NONPARAMETRIC STATISTICS

1	Course Title:	NONPARAMETRIC STATISTICS	
2	Course Code:	EKO3207	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	5	
7	ECTS Credits Allocated:	6.00	
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:	Prof. Dr. Nuran Bayram	
15	Course Lecturers:	Prof. Dr. Nuran BAYRAM	
16	Contact information of the Course Coordinator:	nuranb@uludag.edu.tr 224 29 41126 Uludağ Üniversitesi İktisadi ve İdari Bilimler Fakültesi, Ekonometri Bölümü, Görükle, Bursa	
17	Website:		
18	Objective of the Course:	Show the non-parametric statistical techniques. Specify how and where they applied a scientific study.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Discuss nonparametric statistical techniques.
		2	Explain basic properties of nonparametric statistical Techniques.
		3	Analyze nonparametric statistical techniques.
		4	Learn nonparametric statistical techniques for one sample.
		5	Learn nonparametric statistical techniques for dependent two samples.
		6	Learn nonparametric statistical techniques for independent two samples.
		7	Learn nonparametric statistical techniques for dependent K samples.
		8	Learn nonparametric statistical techniques for independent K samples.
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Population and Sampling, Data Measurement: Nominal scale, Ordinal scale, equal interval scale, proportional scale		

2	Estimation, Hypothesis Tests: Determination of the null hypothesis, selecting the appropriate statistical test, determination of sample number, identification of Refuse Zone	
3	Assumptions and characteristics of parametric and nonparametric statistics Parametric Tests, Nonparametric tests	
4	Chi square for one sample Kolmogorov Smirnov test for one sample and applications by using SPSS	
5	Sign test for one sample, Wilcoxon sign rank test and applications by using SPSS	
6	Nonparametric Runs test for one sample and Applications by Using SPSS	
7	Nonparametric statistics Tests for dependent two sample: Sign Test, Wilcoxon sign rank test(Mid-term Exam)	
8	Comparison of Mc Nemar test, Sign test, Wilcoxon signed rank test	
9	Nonparametric statistics tests for two independent sample: Chi square test, Kolmogorov Smirnow test and application by	
Activites		
Theoretical	Application by using SPSS	
10	14	3.00
Practicals/Labs	0	0.00
Self study and preparation	14	3.00
Homeworks	1	20.00
Projects	0	0.00
Field Studies	0	0.00
Midterm Exams	1	25.00
Others	1	20.00
Final Exams	1	25.00
Total Work Load		199.00
Total work load/ 30 hr		5.80
ECTS Credit of the Course		6.00
22	Textbooks, References and/or Other Materials:	1-Uygulamalı Parametrik Olmayan İstatistik Testleri; Mustafa Aytaç 2-Parametrik Olmayan İstatistiksel Teknikler; Hamza Gamgam 3-SPSS Uygulamalı Çok Değişkenli İstatistik Teknikleri;Şeref Kalaycı 4-Applied Nonparametric statistical Methods ; Peter Sprent and Nigel C. smeeon
23	Assesment	
TERM LEARNING ACTIVITIES		
Midterm Exam	1	40.00
Quiz	0	0.00

Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00	
Contribution of Final Exam to Success Grade	60.00	
Total	100.00	
Measurement and Evaluation Techniques Used in the Course		
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	3	3	3	2	3	4	2	3	3	4	3	3	0	0	0	0
ÖK2	3	2	3	4	2	3	2	2	3	3	4	4	0	0	0	0
ÖK3	3	2	3	2	2	3	3	2	3	2	2	3	0	0	0	0
ÖK4	3	2	2	2	3	2	3	2	3	3	2	3	0	0	0	0
ÖK5	2	2	3	2	3	2	3	3	2	3	3	2	0	0	0	0
ÖK6	2	3	3	2	2	2	3	3	2	2	3	3	0	0	0	0
ÖK7	2	3	2	3	2	3	2	3	3	2	3	2	0	0	0	0
ÖK8	3	2	3	2	3	2	2	3	2	3	2	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							