

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:	5.00	
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:		
16	Contact information of the Course Coordinator:	E-posta: nuranb@uludag.edu.tr Telefon: 224 29 41126 Adres: 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:		
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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		Number	Duration (hour)	Total Work Load (hour)
Theoretical	Application by using SPSS	14	3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study	dependent sample Cochran C test, Friedman	14	2.00	28.00
Homeworks		1	20.00	20.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm Exams	Kruskal-Wallis test(H test) and application by using SPSS	1	20.00	20.00
Others		1	20.00	20.00
Final Exams	Sperman's rank correlation Coefficient and	1	25.00	25.00
Total Work Load				155.00
Total work load/ 30 hr				5.17
ECTS Credit of the Course				5.00
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		NUMBE R	WEIGHT	
Midterm Exam		1	40.00	
Quiz		0	0.00	

