STATISTICS II

1	Course Title:	STATISTICS II	
2	Course Code:	RPD6124	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. AYSAN ŞENTÜRK	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	aysan@uludag.edu.tr, 224 2942231, Uludağ Üniversitesi Eğitim Fakültesi, A Blok, BÖTE Bölümü, 16059 Nilüfer,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 aplications by using SPSS	
5	Sign test for one sample, Wilcoxon sign rank test and aplications by using SPSS	
6	Nonparametric Runs test for one sample and Aplications by Using SPSS	
7	Nonparametric statistics Tests for dependent two sample: Sign Test, Wilcoxon sign rank test	
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 using SPSS	
10	Comparision of Mann-Whitney-Chi square	
11	Nonparametric statistics Tests for k dependent sample Aplication by Using SPSS	
12	Nonparametric statistics tests for two independent sample: test, Kendall's rank correlation coefficients and test	
13	Kendall's goodness of fit coeffient and test.	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	10	5.00	50.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	18.00	0.00
Others	0	0.00	0.00
Final Exams	1	12.00	12.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			4.00

22	Textbooks, References and/or Other Materials:	Uygulamalı Parametrik Olmayan İstatistik Testleri; Mustafa Aytaç, Parametrik Olmayan İstatistiksel Teknikler; Hamza Gamgam SPSS Uygulamalı Çok Değişkenli İstatistik Teknikleri;Şeref Kalaycı Applied Nonparametric statistical Methods ; Peter Sprent and Nigel C. smeeton Akhun, İ. (1988). Temel istatistiksel kavramlar H.Ü. Basılmış Ders Notları (3. Baskı). Ankara., Blalock, M., H. (1972). Social statistics (2nd Ed). New York: McGraw-Hill Book Co., Baykul, Y. (1999). İstatistik metodlar ve uygulamalar (3.Baskı). Ankara: Anı Yayıncılık., Büyüköztürk, Ş. (2010). Sosyal bilimler için veriri analizi el kitabı, Araştırma Deseni SPSS Uygulamaları ve Yorum. Ankara: PegemA yayıncılık., Grimm, L., G. (1993). Statistical application for the behavioral sciences. New York: John Wiley and Sons Inc., Mann, P., S. (1992). Introductory statistics. New York: John Wiley and Sons Inc., Pallat, J. (2001). SPSS Survival manual: A step by step guide to data analysis using SPSS for Windows (Version 10). Buckingham: Open University Pres., Raynald Levesque and SPSS Inc.(2007). Programming and Data Management for SPSS® Statistics 17.0 A Guide for SPSS Statistics and SAS® Users. Chicago: SPSS Inc., Smith, G., M. (1962). A simplified guide to statistics for psychologhy and education. New York: Holt, Rinehart and Education Inc., Vadum, C., A. ve Rankin, O., N. (1998). Psychological research. New York: McGraw-Hill Book Co.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
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	0	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	4	0	5	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0

ÖK6	0	0	0	4	0	4	0	0	0	4	4	0	0	0	0	0
ÖK7	0	0	0	4	0	4	0	0	0	3	3	0	0	0	0	0
ÖK8	0	0	0	4	0	5	0	0	0	4	5	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**