STATISTICAL DATA ANALYSIS

1	Course Title:	STATISTICAL DATA ANALYSIS
2	Course Code:	EKO5105
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
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. ERKAN IŞIGIÇOK
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	E-mail: eris@uludag.edu.tr Telefon: 224 29 41101 Adres: Bursa Uludağ Üniversitesi İktisadi ve İdari Bilimler Fakültesi,Ekonometri Bölümü,Görükle,Bursa
17	Website:	
18	Objective of the Course:	To learn all stages of a scientific research theoretically and practically, to analyze the data using the SPSS statistical package program and to interpret the findings obtained.
19	Contribution of the Course to Professional Development:	Methods and techniques of education is to give the students can apply to their fields.
20	Learning Outcomes:	

	1	Determining the Research Problem and Purpose
	2	Determination of Research Hypotheses and Implementation of the Research
	3	Learning SPSS Package Program
	4	Evaluation of Results
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Determining the Research Problem and the Purpose, Preparing the Questionnaire Form Suitable for the Purpose of the Research, Creating the Sampling Plan, Examining the Variable Types, Scale Levels, Likert Scale	

2	Determination of Research Hypotheses and Application of the Research (Online Survey Application)	
3	General Features of SPSS Package Program, Data Entry and File Operations, Encoding of Survey Results to SPSS Package Program and Data Cleaning Process	
4	Obtaining Descriptive Statistics (Frequency Tables, Graphics, Calculation Results) in SPSS Package Program	
5	Interpretation of Descriptive Statistics Obtained from SPSS	
6	Creating Cross Tables in SPSS and Investigating the Relationship Between Two Qualitative Variables with Chi-Square Hypothesis Test	
7	Investigation of the Relationship Between Two Quantitative Variables in SPSS with Correlation Analysis and Scattering Diagram	
8	SPSS Applications on Parametric Hypothesis Tests	
9	SPSS Applications for Analysis of Variance	
10	SPSS Applications on Nonparametric Hypothesis Tests, Technical Comparison of Parametric and Nonparametric Hypothesis Tests	
11	SPSS Applications for Regression Analysis	
12	SPSS Applications for Logistic Regression Analysis	
13	SPSS Applications of Canonical Correlation Analysis	
14	Preparation of Research Report, Design and Presentation (Launch of Research Results in Powerpoint Program) (Factor Analysis if time remains) (Poster Presentation - Powerpoint and Poster preparation training will be given)	

22	Textbooks, References and/or Other Materials:	1. U. Erman Eymen, SPSS 15 Veri Analizi Yöntemleri 2. Erkan Işığıçok, İstatistiksel Bakış, 3. Erkan Işığıçok, Betimsel İstatistik, 4. Erkan Işığıçok, Çıkarımsal İstatistik, 5. Özer SERPER, Uygulamalı İstatistik,
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		Multiple choice test questions and written questions

24	**ECTS / WORK LOAD TABLE**

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	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total Work Load			114.00
Total work load/ 30 hr			3.80
ECTS Credit of the Course			4.00

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	2	2	1	3	2	2	4	2	3	3	2	3	0	0	0	0
ÖK2	2	3	4	3	2	2	2	2	3	2	3	2	0	0	0	0
ÖK3	2	2	3	3	2	4	1	2	2	3	2	2	0	0	0	0
ÖK4	2	1	3	3	3	2	3	2	2	2	2	2	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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