

EDUCATION STATISTICS AND APPLICATIONS I

1	Course Title:	EDUCATION STATISTICS AND APPLICATIONS I	
2	Course Code:	EPO5115	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. EYÜP YURT	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:		
17	Website:		
18	Objective of the Course:	To prepare a questionnaire in accordance with the purpose of the research, to create a database in Excel and SPSS, to analyze with statistical techniques, to interpret and report the results of the analysis.	
19	Contribution of the Course to Professional Development:	While applying scientific research method steps, students are expected to define the problem, develop hypotheses, collect data, analyze the data, test the hypotheses and report the results. This course supports students to be able to conduct quantitative studies as independent researchers. Within the scope of this course, students; will be able to design surveys, collect data, transfer data to statistics program and perform appropriate analyzes to test hypotheses.	
20	Learning Outcomes:		
		1	The student can design a questionnaire in accordance with the purpose of the study.
		2	The student can collect data with online tools.
		3	The student can edit the research data in Excel.
		4	The student can define the data in SPSS.
		5	The student can perform descriptive analysis.
		6	The student can perform some parametric analysis.
		7	The student can perform some none-parametric analysis.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Basic concepts of measurement and evaluation		

2	Questionnaire, scale and inventory concepts, demographic and diagnostic information form development	
3	Online data collection tools	
4	Online data collection tools	
5	Organizing data in Excel	
6	Organizing data in SPSS	
7	Organizing data in SPSS	
8	Midterm Exam 1	
9	Descriptive analysis, analysis of multiple answer questions, assumptions of parametric analysis techniques	
10	t test, analysis of variance, correlation analysis	
11	Mann-Whitney U test, Wilcoxon signed-row test, Kruskal Wallis H test, Chi-square analysis	
12	Mann-Whitney U test, Wilcoxon signed-row test, Kruskal Wallis H test, Chi-square analysis	
13	APA format table creation and reporting	
14	Final exam	

22	Textbooks, References and/or Other	Büyüköztürk, Ş. (2010). Sosyal bilimler için veri analizi el
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Activites		Number	Duration (hour)	Total Work Load (hour)
23	Theoretical Assessment	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		11	2.00	22.00
Midterm Exam		1	30.00	30.00
Homeworks		1	10.00	10.00
Projects		0	0.00	0.00
Home work-project		1	30.00	30.00
Field Studies		0	0.00	0.00
Midterm exams		1	12.00	12.00
Total		3	100.00	100.00
Others		0	0.00	0.00
Final Exam		1	18.00	18.00
Total Work Load				90.00
Total work load/ 30 hr		100.00		3.00
ECTS Credit of the Course				3.00

24	ECTS / WORK LOAD TABLE	
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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	1	3	3	4	1	1	1	1	1	1	3	1	1	1	1
ÖK2	1	1	3	3	4	1	1	1	1	1	1	3	1	1	1	1
ÖK3	1	1	3	5	2	5	4	1	2	3	2	3	1	1	1	1

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