

ADVANCED STATISTICAL ANALYSIS AND RESEARCH ETHICS IN EDUCATION

1	Course Title:	ADVANCED STATISTICAL ANALYSIS AND RESEARCH ETHICS IN EDUCATION	
2	Course Code:	MUZ6125	
3	Type of Course:	Optional	
4	Level of Course:	Third 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:	English	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. GÜLNIHAL GÜL	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Doç. Dr. Gülnihal GÜL U.Ü. Eğitim Fakültesi GSE Bölümü Müzik Eğitimi ABD gulnihal@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The objective of this course is to learn the fundamental concepts of scientific research, to define a research problem and to conduct a reserach project by collecting and clustering relevant data using the scientific method, interpreting the outcomes and reporting the results from the study.	
19	Contribution of the Course to Professional Development:	Learning the basic concepts of science and research, determining the existence of a problem, collecting data with scientific method, grouping and interpreting them and making reports, developing the researcher teacher identity and benefiting from these abilities in professional life	
20	Learning Outcomes:		
		1	To be able to explain the fundamental concepts of science and history of science. (fact, knowledge, right and wrong, absolute knowledge, etc.)
		2	To explain the relation between science and research and to exemplify the features of scientific research and the researcher.
		3	To explain the sources of knowledge and the ways of accessing knowledge
		4	To define the problem and related sub-problems in scientific research
		5	To define the population in research and to draw a sample using the appropriate sampling technique.
		6	To explain the methods of data collection in scientific research and to choose the appropriate method from this set.
		7	To use the data collecting method of choice to obtain the data.
		8	To cluster, analyze and interpret data.
		9	To explain the ways of writing a research report.
		10	To write a research report.

21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Introduction to the Research Methods course. Defitinition, contents and the ways of instruction. Methods of assessment and evaluation.			
2	What is scientific research? What is the purpose of scientific research education?			
3	What is the relation between science and research? What properties are necessary in scientific research?			
4	The structure, methods and elements of scientic research. What is a research problem? What properties should be considered in selecting a research problem?			
5	What is data? What are the population and a sample? What are the methods of sampling?			
6	What are the methods of data collection? What is a questionnaire? How can it be formed and applied?			
7	Analyzing the results of a questionnaire. Ways of forming a questionnaire.			
8	How can data be collected by observation and by interviewing? Ways of designing an observation form.			
Activites		Number	Duration (hour)	Total Work Load (hour)
11	Theoretical	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
12	Self study and preparation	14	4.00	56.00
Homeworks		0	0.00	0.00
Projects	report, examples.	0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	2.00	2.00
Others		0	0.00	0.00
Final Exams		1	2.00	2.00
Total Work Load				88.00
Total work load/ 30 hr		3		2.93
ECTS Credit of the Course				3.00
		Kullanılan Araştırma Teknikleri. T. Gönc Şavran (Editör), Sosyolojide araştırma yöntem ve teknikleri (ss. 64-104). Eskişehir: Anadolu Üniversitesi Web-Ofset. Kohler 5.Karasar, Niyazi. (1999). Bilimsel Araştırma Yöntemleri. Ankara: Nobel Yayın Dağıtım. 6.Karasar, Niyazi. (2001). Araştırmalarda Rapor Hazırlama. Ankara: Nobel Yayın Dağıtım. 7.Yıldırım, A., & Şimşek. H. (2016). Sosyal Bilimlerde Nitel Araştırma Yöntemleri. Ankara: Seçkin Yayınları.		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	
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	In this lesson, students are evaluated with 1 midterm exam consisting of open-ended questions, 1 final exam and written exam questions.	

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	1	1	1	1	1	1	1	1	1	1	3	4	4	1	2	4
ÖK2	1	1	1	1	1	1	2	1	1	1	3	4	3	1	2	4
ÖK3	1	1	1	1	1	1	1	1	1	1	3	2	2	1	2	2
ÖK4	1	1	1	1	1	1	1	1	1	1	3	4	2	1	2	1
ÖK5	1	1	1	1	1	1	1	1	1	1	3	4	2	1	2	1
ÖK6	1	1	1	1	1	1	1	1	1	1	3	4	2	1	2	1
ÖK7	1	1	1	1	1	1	1	1	1	1	3	4	2	1	2	1
ÖK8	1	1	1	1	1	1	1	1	1	1	3	4	2	1	2	1
ÖK9	1	1	1	1	1	1	1	1	1	1	4	2	1	1	2	1
ÖK10	1	1	1	1	1	1	1	1	1	1	5	2	2	1	2	1
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							