SC	IENTIFIC RESEARCH	TECH	NIQUES AND RESEARCH ETHICS					
1	Course Title:	SCIENTIFIC RESEARCH TECHNIQUES AND RESEARCH ETHICS						
2	Course Code:	SOS5101						
3	Type of Course:	Compuls	sory					
4	Level of Course:	Second Cycle						
5	Year of Study:	1						
6	Semester:	1						
7	ECTS Credits Allocated:	8.00						
8	Theoretical (hour/week):	3.00						
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. Muammer DEMİREL						
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	Prof. Dr. Muammer Demirel mdemirel@uludag.edu.tr						
17	Website:							
18	Objective of the Course:	This course aims to examine the objective scientific research process (problem determination, data collection, data analysis and interpretation of results), to observe the main scientific research methods (experimental method, description method etc.) and to find the research question (hypothesis), conceptualization, measurement, data collection, data analysis, data evaluation / interpretation and report writing techniques. This will emphasize the concept of ethics and ethical theories, research ethics and publishing ethics, and ethical behavior. The most common violations of research and publications and their methods of prevention are to give information and awareness about what is the way to be followed in case of violation detection.						
19	Contribution of the Course to Professional Development:							
20	Learning Outcomes:							
		1	To understand the scientific research techniques					
		2	To understand and to analyze the ethical aspects of certain situations related to science and technology					
		3	To comprehend ethical theories, scientific research and publication ethics and all aspects of the concept of professional ethics					
		4	To design and conduct a scientific research in accordance with ethical rules					
		5						
		6						
		7						
		8						
		9						
	· · · · · · · · · · · · · · · · · · ·	10						
	Course Content:							

	Course Content:										
Week	Theoretical		Ρ	ractice							
1	Scientific research and scientific rese process	earch									
2	Scientific research methods (Qualitat Research)	ive									
3	Scientific research methods (Quantita Research)	ative									
4	Measurement instruments used in sc research	ientific									
5	Data collection and analysis processe	es									
6	Validity and reliability concepts										
7	Identification of research problem and hypothesis	d									
8	The concept of ethics and profession										
9	Ethical theories										
10	The concept and basic principles of reethics	esearch									
11	Unethical behavior and ethical violation during the research process	ons									
12	The concept and basic principles of publication ethics										
13	Unethical behavior and ethics violation publication process	ons in the									
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	ifextbooks, References and/or Other		С	reswell, J. W. (2014). I	Reference Araştırm	a Deseni ve					
Practica	als/Labs			0	0.00	0.00					
Self stu	dy and preperation		Q	dantitative, Qualitative	8a66 Mixed Method	1\$12pp0oaches,					
Homew	vorks			1	30.00	30.00					
Project	β		A OAltay). TÜBİTAK, Ankara0Karasar, N. (2004)								
Field S	tudies		0 0.00 0.00								
Midtern	n exams		Yöntemi: Kavramlar, İlke 20,00eknikler, 15. 82800 Not								
Others				0	0.00	0.00					
			۱۸		30.00	30.00					
Total Work Load						234.00					
N7bidatetwnonExaoand/30 hr 1				0.00		7.80					
ECTS Credit of the Course						8.00					
Home v	work-project	1	4(0.00							
Final E	xam	1	4(0.00							
Total		3	100.00								
Contribution of Term (Year) Learning Activities to Success Grade			60.00								
Contrib	oution of Final Exam to Success Grade	9	40.00								
Total			100.00								
Measur Course	rement and Evaluation Techniques Us	sed in the									
24	24 ECTS / WORK LOAD TABLE										

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow		3 Medium			4 High				5 Very High			