

RESEARCH TECHNIQUES AND PUBLICATION ETHICS IN AUTOMOTIVE ENGINEERING

1	Course Title:	RESEARCH TECHNIQUES AND PUBLICATION ETHICS IN AUTOMOTIVE ENGINEERING	
2	Course Code:	TOP5000	
3	Type of Course:	Compulsory	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	2.00	
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:	Dr. Öğr. Üyesi SERHAT GÜREL	
15	Course Lecturers:	Dr. Öğr. Üyesi Serhat GÜREL	
16	Contact information of the Course Coordinator:	sgurel@uludag.edu.tr 0 224 2941545 Bursa Uludağ Üniversitesi Ziraat Fakültesi Toprak Bilimi ve Bitki Besleme Bölümü	
17	Website:		
18	Objective of the Course:	It is aimed to provide graduate students with knowledge, awareness and sensitivity about research and publication ethics, and in this context, to ensure that they carry out studies in accordance with research and publication ethics.	
19	Contribution of the Course to Professional Development:	To learn the scope and basics of scientific research. To learn access to scientific information and data collection methods. To learn to do research and prepare reports. To have knowledge about scientific ethical issues, to prevent unethical behavior.	
20	Learning Outcomes:		
		1	Concepts of research and publication ethics can be used by the researcher to ensure that a research is ethically valid and reliable define their responsibilities.
		2	Knows the national and international ethical regulations regarding research ethics and publication ethics
		3	In the process of converting the research into a publication, Can fulfill the requirements.
		4	Gains knowledge of research on Soil Science and Plant Nutrition.
		5	Knows how trials are established and managed in field and greenhouse studies.
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21	Course Content:		

	Course Content:			
Week	Theoretical	Practice		
1	Science and History of Science			
2	Characteristics of the scientist and Scientific thinking			
3	The concept of ethics and publication ethics in scientific research			
4	Literature review			
5	Scientific report writing			
6	Writing and Publishing Scientific Articles			
7	Sampling and preparation for analysis in materials such as soil, plant, fertilizer, water, etc.			
8	Greenhouse and pot trial technique and methods			
9	Pot trials in a soilless environment			
10	Field Trials			
11	Materials used in the trials and their properties			
12	Issues to be considered during trial execution			
13	Research methods used in trials			
14	Sera ve Tarla denemelerinin yorumlanmaları			
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	1.00	14.00
Homeworks		1	12.00	12.00
Projects		1	12.00	12.00
Field Studies		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm Exams		0	0.00	0.00
Others		0	0.00	0.00
Final Exams		0	0.00	0.00
Quiz		0	0.00	0.00
Total Work Load				66.00
Total work load/ 30 hr				2.20
Final Exam		0	0.00	
ECTS Credit of the Course				2.00
Contribution of Term (Year) Learning Activities to Success Grade		100.00		
Contribution of Final Exam to Success Grade		0.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Homework, Project, Performance		
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	5	5	5	3	3	3	3	3	3	3	3	3	3	3	0	0
ÖK2	5	5	5	3	3	3	3	3	3	3	3	3	3	3	0	0
ÖK3	0	1	3	5	5	5	4	4	4	4	4	4	4	4	0	0
ÖK4	1	2	3	3	3	3	4	4	4	4	4	4	4	4	0	0
ÖK5	1	2	3	3	3	3	5	5	5	5	5	5	5	5	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			