

COURSE SYLLABUS

Course Details									
Code					Academic Year		ar	Semester	
ICMR105					2023-2024			1	
Title						T	Α	L	ECTS
Data Analysis / Statistics in Comn	nunication Stu	dies				2	0	0	5
Language	English								
Level	Graduate x Postgraduate								
Department / Program	International Communication and Media Research								
Forms of Teaching and Learning	Face-to-Face	į							
Course Type	Compul	sory	X			Ele	ctive		
Objectives	With the help of computer-based practical applications, the students are provided with the ability to use basic mathematical and statistical methods required for data collection, interpretation and presentation, especially in Communication Sciences research.								
Content	Measurement and sampling methods, continuous and discrete probability distributions, hypothesis testing, linear regression analysis, programming in R language, web mining								
Prerequisites	-								
Coordinator	Prof. Dr. Cem Sefa Sütçü								
Lecturer(s)	Prof. Dr. Cem Sefa Sütçü								
Assistant(s)	-								
Work Placement	_								
Recommended or Required Reading									
Books / Lecture Notes	Hayes, A. F. (2005). Statistical Methods for Communication Science. Mahwah, NJ: Lawrence Erlbaum Associates.								
Other Sources	-								
Additional Course Material									
Documents	_								
Assignments	-								
Exams	_								



Course Composition				
Social Sciences		30%		
Natural Sciences		70%		
Engineering Sciences		%		

COURSE SYLLABUS

Expert Knowledge	%

Assessment

Assessment		
Activity	Count	Percentage (%)
Midterm Exam	1	30
Quiz		
Assignments		
Attendance		
Recitations		
Projects	1	30
Final Exam	1	40
	Total	100

ECTS Points and Work Load

Activity	Count	Duration	Work Load (Hours)
Lectures	14	2	28
Self-Study	14	4	56
Assignments			
Presentation / Seminar Preparation			
Midterm Exam	1	3	3
Recitations			
Laboratory			



Projects		1 60 60						
Final Exam		1 3						
			Total Work Load	150				
	ECTS Points (Total Work Load / 30) 5							
Learning Out	comes							
1		gnize most used probability dis	tributions.					
2	They can compare two data groups with statistical methods.							
3	They can interpret statistical data.							
4	They can use hypothesis tests on data groups.							
5 They can use R programming language on computer.								
6 They can apply statistical methods to data in communication and media research.								
Weekly Conte								
nt								
1 The Role of Statistics in Scientific Research								
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COURSE SYLLABUS

2	Basic Knowledge of Mathematics for Statistical Studies, Functions, Derivatives, Integrals
3	Measurement and Sampling Methods
4	Discrete and Continuous Probability Distributions (Binomial, Poisson, Normal)
5	Continuous and Discrete Variables, Hypothesis Testing, Chi-Square Test
6	Linear Regression Analysis
7	Visual Presentation of Data
8	Basic Applications with R Language
9	Applications with R Language on Real Cases
10	Web Mining
11	Social Media Analysis
12	Content Analysis in Linguistics and Politics



13	Analysis on Actual Data from Communication and Media Research						
14	Presentation of Projects						
Contribution of Learning Outcomes to Program Objectives (1-5)							
	P1	P2	Р3	P4	P5	P6	
1	5	3	4	5	5	5	
2	5	3 4 5 5 5					
3	5	3	4	5	5	5	
4	5	3	4	5	5	5	
5	5	3	4	5	5	5	
6	5	3	4	5	5	5	
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High							
https://obs.tau.edu.tr/oibs/bologna/progProfile.aspx?lang=en&curSunit=6028							
Compiled by:	RA H. Zeynep Gürbener Şahin						
Date of Compila	tion:	on: 29.11.2023					



SOSYAL BİLİMLER ENSTİTÜSÜ INSTITUT FÜR SOZIALWISSENCHAFTEN

DEPARTMENT OF "International Communication and Media Research" COURSE SYLLABUS