

OSTIM TECHNICAL UNIVERSITY FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES COURSE SYLLABUS FORM 2022-2023 FALL

BUS 402 Research Methods in Social Sciences										
Course Name	Course Code	Period	Hours	Application	Laboratory	Credit	ECTS			
Research Methods in Social Sciences	BUS 402	7	3			3	4			

Language of Instruction	English
Course Status	Compulsory
Course Level	Bachelor
Learning and Teaching Techniques of the	Lecture, Question-Answer, Problem
Course	Solving, Teamwork, Report Writing

Course Objective

The main purpose of this course is to examine the research process (problem identification, data collection, data analysis and interpretation of results), to review certain scientific research methods (experimental method, descriptive method, etc.) and to find the research question necessary for students to conduct research on a particular topic.

The aim of the course is to learn the techniques of hypothesis building, conceptualization, operationalization, measurement, data collection, data analysis, data evaluation/interpretation and report writing.

Learning Outcomes

On successful completion of this course, candidates should be able to:

- Explain the concepts of scientific method and philosophy of science,
- Comprehends the stages of scientific research process,
- Knows the conceptual framework, research designs, data collection techniques, universe and sample, measurement and analysis types and uses them in scientific studies,
- Publication ethics, explains the concepts of plagiarism, uses plagiarism programs,
- Will be able to write a research proposal.

Course Outline

Because of the rapid growth of qualitative and mixed methods in business management, this course



carefully cover these methods to complement the more traditional methods and to add to each student's repertoire of research skills. A second overarching goal that has been maintained the course is to present information in a way that is understandable to students.

	Weekly Topics and Releated Preparation Studies									
Weeks	Topics	Preparation Studies								
	Introduction	✓ Choosing the right research topic 2-4								
	Choosing your research topic Reviewing the literature critically	✓ How to refine research topic ideas								
1	neviewing the includare difficulty	✓ What makes a good research topic? 15								
		 ✓ How to turn a research idea into a research project 18 								
	Managing the research process	✓ Getting access to your research								
2	Choosing your research design	organisation, respondents and participants 59								
		✓ What about access to information?61								
	Sampling	✓ Define the Population and								
	Questionnaire Surveys	Sampling Frame. 94								
3	•	✓ Sampling Method. 96								
3		✓ Probability Samples 96								
		✓ Non-probability Samples 99								
		✓ Sample Size 101								
4-5	Analysing data	✓ Different types of data 180								
	14/99	✓ Analysing data quantitatively 183								
	Writing and presenting the research proposal	✓ The importance of the research								
		proposal 216								
		✓ When you should write your								
		research proposal 220								
6-7		✓ What you should include in your								
		research proposal 220 ✓ The style you should use to write								
		✓ The style you should use to write your research proposal 227								
		✓ How your research proposal will be								
		judged 231								
8	MIDTERM									
- 0	Quantitive Analysis	✓ Using Software 112								
	Simple Analysis Techniques	✓ Simple Analysis Techniques. 114								
9	Simple Analysis Teeriniques	✓ Cleaning the Data 115								
		✓ Analytical Techniques for One								
		Variable. 117								
	Hypothesis Testing	✓ Hypothesis Tests and Error 148								
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	✓ The T-test 151								
10		✓ Analysis of Variance: One-way								
		ANOVA 161								
		✓ Testing Correlation Coefficients 68								
11	Hypothesis Testing	✓ Chi-square Test (Chi2)164								
	Analytical Techniques for Relationships between	✓ Analytical Techniques for								
12	Variables	Relationships between Variables								
	(Reliability and Correlation Analysis)	128								
12	Pagrassian Analysis	/ Turking distributed 74								
13	Regression Analysis	✓ Introduction 171								



		 ✓ Simple Regression Analysis ✓ Estimating Regression Para 175 ✓ The T- 182 ✓ Multiple Regression Analysis ✓ Explained Variance . 185 	ameters
14	Factor Analysis	 ✓ Exploratory Factor Analysis ✓ Principal Component Analy ✓ Running Exploratory Facto ✓ Analysis 227 ✓ Unidimensionality 240 	sis 227
15	Factor Analysis General Overview	✓ Confirmatory Factor Analy	sis 241
16	FINAL EX	XAM	

Textbook (s)/References/Materials:

- Saunders, M., & Lewis, P. (2017). Doing research in business and management.
 Pearson.
- Lawrence Neuman, W. (2014). Social research methods: Qualitative and quantitative approaches.
- Sallis J.E., Gripsrud G., Olsson U.H., Silkoset R. (2021) Research Methods and Data Analysis for Business Decisions. Classroom Companion: Business. Springer,
- Piet Verschuren & Hans Doorewaard (2010) Designing a Research Project (2nd Edition) Eleven International Publishing
- Barbara Gastel & Robert A. Day (2016) How to Write and Publish a Scientific Paper-GreenWood
- Douglas C. Montgomery (2020) Design and Analysis of Experiments-Wiley
- Andy Field & Dr Graham J Hole -(2003) How to Design and Report Experiments- Sage Publications Ltd
- Daniel J. Denis (2021) Applied Univariate, Bivariate, and Multivariate Statistics_
 Understanding Statistics for Social and Natural Scientists, With Applications in SPSS and R-John Wiley & Sons
- Peter Bock (2001) Getting It Right R&D Methods for Science and Engineering-Academic Press
- David V. Thiel (2014) Research Methods for Engineers. 1-Cambridge Uni Press
- Andy Field (2018) Discovering Statistics Using IBM SPSS Statistics-Sage Publications Ltd
- Dr. Arlene G. Fink -(2002) The Survey Kit, 2nd edition, The Survey Handbook 1-Sage Publications, Inc



Assessment							
Studies	Number	Contribution margin (%)					
Attendance							
Lab							
Classroom and application performance grade							
Field Study							
Course-Specific Internship (if any)							
Quizzes / Studio / Critical							
Homework	1	20					
Presentation							
Projects							
Report							
Seminar							
Midterm Exam/Midterm Jury	1	30					
General Exam / Final Jury	1	50					
	Total	100					
Success Grade Contribution of Semester Studies		50					
Success Grade Contribution of End of Term		50					
	Total	100					

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ECTS / Workload Table								
Activities	Number	Duration (Hours)	Total Workload					
Course hours (Including the exam week: 16 x total course hours)	16	2	32					
Laboratory								
Application								
Course-Specific Internship								
Field Study								
Study Time Out of Class	16	2	32					
Presentation / Seminar Preparation								
Projects								
Reports								
Homework	4	8	32					
Quizzes / Studio Review								
Preparation Time for Midterm Exam / Midterm Jury	1	4	4					
Preparation Period for the Final Exam / General Jury	1	4	4					
Total Workload/25 hours	(104/25 = 4.16)							
ECTS	3	4						



Rela	Relationship Between Course Learning Outcomes and Program Competencies								
No	Learning Outcomes	Contribution Level							
		1	2	3	4	5			
LO1	To explain the concepts of scientific method and philosophy of science,					Χ			
LO2	To comprehends the stages of scientific research process,					Χ			
LO3	To knows the conceptual framework, research designs, data collection techniques, universe and sample, measurement and analysis types and uses them in scientific studies,					X			
LO4	To publication ethics, explains the concepts of plagiarism, uses plagiarism programs,					X			
LO5	Will be able to write a research proposal.					Χ			
L06	To define hypothesis testing and explain the steps in hypothesis testing.					Χ			
LO7	To explain the basics of writing a professional, informative, and accurate research report.					Х			



	Relationship Between Course Learning Outcomes and Program Competencies								cies
No	Program Competencies	Learning Outcomes						Total Effect	
	Know the basic concepts and practical	LO1 X	LO2	LO3	LO4	LO5	LO6	LO7	(1-5)
1	information about the science of business administration and core business activities	Λ	Λ					Λ	3
2	Evaluate global and local issues by using ideas and concepts from the field of business administration; examine and analyze management related information and applications in line with scientific principles by using appropriate qualitative and quantitative methods; interpret and synthesise the data and find solutions to business related problems	X		X			X	X	4
3	Take responsibility as a member of an interdisciplinary team to solve unpredictable and complex business problems; be able to work effectively in teams of various functions and disciplines; effectively carry out project activities	X	X	X		X			4
4	Carry out independent studies in the field by utilizing obtained knowledge and skills	X		X		X		X	4
5	Set goals and objectives for the institution he/she works at; detect and solve basic problems; analyze the internal and external environment of the business; evaluate the developments, support continuous improvement and provide innovative strategies	X	X		X				3
6	Acquire the skill to manage activities aimed at the improvement of the employees as a leader, make decisions and implement them		X	X		X	X		4
7	Acquire the entrepreneurship skill; design and manage a business; promote innovativeness and sustainability	X	X			X		X	4
8	Maintain life-long learning activities; achieve self-improvement; follow higher level educational programs	X	X				X		3
9	Inform stakeholders with a sense of social responsibility as an individual with effective communication skills; share his/her emotions, thoughts and solutions to problems verbally and in writing; understand the behaviors and psychology of his/her colleagues	X		X		X	X		4
10	Use the information and communication technologies and computer software				X	X		X	3



	required by the field								
11	Effectively use English to follow, read, write and speak about the universal information in the field of business and management sciences and be able to communicate with colleagues in a foreign language with professional proficiency	X	X	X		X			4
12	Act according to the law in all his/her affairs; have a sense of professional and ethical responsibility and code of business conduct and act in line with social values	X	X				X	X	4
13	Be aware of the contemporary business problems as well as the interdisciplinary scope of business administration and analyze these; have the competence to understand the effects of business and management sciences on these problems on a universal, environmental, legal, social and societal level and in terms of health, security and globalization	X	X		X			х	4
14	Give research proposals, be able to design research studies, prepare and present research reports	X		X		X	X		4
15	Manage work time and personal time; fulfil the requirements of his/her duties on time								
16	Have the competence to work in non- governmental organizations, private sector and public entities	X	X		X		X	X	5
	Total Effect	t							57



Policies and Procedures

Web page: https://www.ostimteknik.edu.tr/business-administration-1240/907

Exams: The exams aim at assessing various dimensions of learning: knowledge of concepts and theories and the ability to apply this knowledge to real-world phenomena, through analyzing the situation, distinguishing problems, and suggesting solutions. The written exams can be of two types, ie. open-ended questions, which can also be in the form of problems or multiple-choice questions. The case could also be carried to the Dean's Office for additional disciplinary action.

Assignments: Homework (Assignments) might be applicable. Scientific Research Ethics Rules are very important while preparing assignments. The students should be careful about citing any material used from outside sources and reference them appropriately.

Missed exams: Any student missing an exam needs to bring an official medical report to be able to take a make-up exam. The medical report must be from a state hospital.

Projects: Applicable.

Attendance: Attendance requirements are announced at the beginning of the term. Students are usually expected to attend at least 70% of the classes during each term.

Objections: If the student observes a material error in his/her grade, he/she has the right toplace an objection to the Faculty or the Department. The claim is examined and the student is notified about its outcome.