

<b>Course Name:</b> Research Methods I		<b>Course Level:</b> Undergraduate			<b>Language:</b> English
<b>Course Code</b>	<b>Prerequisites</b>	<b>Corequisites</b>	<b>(T + P hours)</b>	<b>ECTS Credit</b>	<b>Type</b>
PSYC2201	MATH2203	-	3+0	6	Compulsory

**Course objectives:** Learning to enter data into SPSS file by introducing quantitative research methods, applying appropriate statistical tests and understanding research methods in the field of psychology.

**Course description:** Application and interpretation of basic psychological research concepts and methods used in psychological research, introduction to the positivistic methodology, experimental design and survey techniques. Basic concepts in experimental and non-experimental research, teaching of concepts in basic statistical techniques, application and interpretation of basic statistical techniques on SPSS program. Application of basic descriptive analyses, correlation, t-test, and anova statistical methods.

#### Evaluation system (in percentages):

Midterm	Project	Final	Total
%30	%30	%40	100

#### Reference

Coolican, H. (1998). Research methods. *Psychology: An integrated approach*. London: Addison-Wesley Longman.

#### Weekly Course Topics

Week	Topic
1.	Introduction
2.	Introduction to Quantitative Analysis: Psychology as a Science, Quantitative Research Characteristics, Variables, Research Design, Hypothesizing, Statistical Significance and Inferential Statistics.
3.	Means, Standard Deviation, Distribution, Introduction to SPSS.
4.	Z Scores and SPSS Study (Average Calculation, Inversion, Data Selection)
5.	Z Scores and SPSS Study (Average Calculation, Inversion, Data Selection), Correlation
6.	Correlation  One- Sample and Two Sample T-Tests
7.	One-Sample and Two Sample T-Tests-Repeat
8.	Midterm 1
9.	Independent Two-Sample T-Test and SPSS Application
10.	ANOVA Test and SPSS Application

11.	ANOVA Test and SPSS Application-Repeat
12.	Midterm 2
13.	Simple Regression and SPSS Application
14.	Simple Regression and SPSS Application-Review

### **Contribution of the Course to the Program Outcomes**

#### **Course Outcomes**

Students will gain the following knowledge and skills at the end of the course:

- 1.Learn basic concepts (statistical significance, p value, degrees of freedom) in psychological research.
- 2.Conduct descriptive analyses by analyzing means and standard deviations.
- 3.Interpret distribution of scores and understand and apply z-tests
- 4.Apply t-tests, correlation and simple regression.
- 5.Enter data on SPSS software.

	<b>Program Outcomes</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>
1.	To examine and compare different concepts in subfields of psychology and to have basic application skills.					

2.	To apply analytical and critical thinking skills in various fields of psychology, to be able to solve the problems related to the field with contemporary methods.					
3.	The student has the skills to interpret facts, events and data, to define and analyze problems, to develop solutions based on research and evidence by using the knowledge and skills they have acquired in the field.			X		
4.	Discussing and criticizing professional and ethical issues in program design and professional practice.					
5.	To explain the procedures and rules in psychological measurement and interview techniques, and to develop the ability to apply them at a basic level.					
6.	Adopting the rules of the positivist method and designing scientific research, collecting data, analyzing data and scientifically reporting the results.		X	X	X	
7.	To gain the basic principles of scientific thinking, to be able to separate and / or integrate the knowledge gained by other disciplines with a critical point of view.					
8.	To develop the competence for using the necessary information and communication technologies used to reach and spread information.		X			X

9.	To use oral and written communication skills effectively both in Turkish and at least one foreign language.					
10.	Working effectively in individual and multidisciplinary research teams.					
11.	To develop respect for interpersonal and cultural diversity and to have social responsibility.					
12.	To be aware of psychological resilience, personal and professional development.					

Course Evaluation and ECTS Workload			
Types of Work	Number		
	ECTS Workload		
		Time	
Attendance	14	3	42
Final exam	1	24	24
Quizzes	0	0	0
Semester project	0	0	0
Assignments	0	0	0
Final project	0	0	0
Seminar	0	0	0
Duties	3	5	15
Presentation	0	0	0
Midterm	1	20	20
Project	0	0	0
Lab	0	0	0
Private lesson time	0	0	0
Other (Personal study)	14	3	42
		Total workload	143
		Total workload/25	5.72

		ECTS Credit	6
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**Teaching Methods and Techniques:** Lecture, Application, Project

**Prepared By:**

**Date:**