

TITLES	EXPLANATIONS
<b>Title of Course</b>	Statistics II: Exploratory Statistics
<b>Code of Course</b>	PSK 212
<b>Type of Course</b>	Compulsory
<b>Level of Course</b>	Undergraduate
<b>Year of Study</b>	2
<b>Semester/Trimester</b>	4
<b>Number of ECTS</b>	4
<b>Name of Lecturer(s)</b>	Instr. Leman Korkmaz
<b>Course Learning Outcomes</b>	<p>At the end of this course students are expected to;</p> <p>LO1. Sharpen their statistical intuition and abstract reasoning as well as their reasoning from numerical data through psychological and social research.</p> <p>LO2. Develop better attitudes to statistics.</p> <p>LO3. Decide the type of statistical procedures suitable for the analysis of a hypothesis.</p> <p>LO4. Carry out statistical analyses and write research report for given hypotheses / research questions.</p> <p>LO5. Apply statistical thinking to daily life.</p> <p>LO6. Apply statistical thinking to other subareas of psychology.</p>
<b>Mode of Delivery</b>	The style of teaching is face-to-face interaction.
<b>Prerequisites and Co-requisites</b>	PSK 211
<b>Recommended Optional Programme Component</b>	None
<b>Course Contents</b>	<ol style="list-style-type: none"> <li>1. Hypothesis Testing</li> <li>2. Type I, Type II errors and p Value</li> <li>3. Reliability Analysis</li> <li>4. Principal Component Analysis</li> <li>5. Testing the Difference between Two Means (t-test)</li> <li>6. Testing the Difference between Two Means (continued)</li> <li>7. One-Way Analysis of Variance</li> <li>8. Analysis of Variance (continued)</li> <li>9. Correlation</li> <li>10. Correlation (continued)</li> <li>11. Regression</li> <li>12. Regression (continued)</li> <li>13. Chi Square Test</li> <li>14. A General Look and Review</li> </ol>
<b>Recommended or Required Reading</b>	<p>(Primary Textbook)</p> <p>Aron, A., Aron. E., &amp; Elliot, C. (2014). <i>Statistics for psychology (6<sup>th</sup> Ed)</i>. London: Pearson.</p> <p>.* The primary textbooks for this course is renewed every year.</p>
<b>Planned Learning Activities and Teaching Methods</b>	This course is conducted through discussions on the material presented in class and over the compulsory reading material. With this aim in mind, (a) regular lectures supported by visual presentations and (b) class discussions are used. These class discussions are designed in such a way to help students develop statistical thinking skills. Students also have lab sessions in which they use statistical software programs.
<b>Assessment Methods and Criteria</b>	1 Midterm 30%, 3 Quizzes 10%, 1 Final Exam 30%, Assignments 30%
<b>Language of Instruction</b>	Turkish
<b>Practicum</b>	None

<b>Program Outcomes</b>	<b>LO1</b>	<b>LO2</b>	<b>LO3</b>	<b>LO4</b>	<b>LO5</b>	<b>LO6</b>
Analyze problems with the scientific method and appropriate scientific tools.	X		X		X	
Think critically and creatively, ask questions, make comments using the knowledge and skills they have acquired.	X		X		X	
Develop a positive attitude toward life-long education.	X				X	
Use the library, scientific databases, internet and other sources effectively.	X				X	
Have the skills to find out, analyze, evaluate, decide about, and apply the alternative solutions to problems.			X		X	
Be open-minded to use knowledge stemming from different disciplines and/or areas of psychology.						X
Develop a positive attitude toward critical thinking.	X		X		X	
Have advanced theoretical and applied knowledge of psychology supported by contemporary course material.						
Have the necessary knowledge and skills to analyze and synthesize the main areas of psychology.						X
Be competent in English and Turkish.						
Use effective methods to present, share and discuss scientific information.						
Be able to write scientific papers by using international manuals such as APA.				X		
Show courage and use the necessary skills to propose solutions to the problems of the world they live in.						X
Show courage and have necessary skills to propose solutions to the problems of their own life.					X	
Have a positive attitude to statistics and be able to use common statistical software packages.	X	X				
Be able to plan and conduct research independently.			X	X		
Apply qualitative and/or quantitative methods depending on the nature and the scope of a given problem.	X	X	X	X		
Know the research methods and statistical procedures used in behavioral sciences.	X		X	X		
Use tools such as questionnaires, inventories, scales, and tests.						
Apply psychological knowledge to other problem areas for community welfare.						
Use theoretical and applied knowledge in accordance with ethical standards.						