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| ***ÇAĞ UNIVERSITY******INSTITUTE OF SOCIAL SCIENCES******DEPARTMENT OF PSYCHOLOGY***  |
| **Code** | **Course Name** | **Credit** |  **Ects** |
| PSI536 | Statistical Methods in Psychology |  |  |
| Prerequisite Courses | None |
| Course Language | Turkish  | Course Outline | Face to Face |
| Type / Level of Course | Compulsory / Master / 1. Year/ Spring Semester |
| **Faculty Members** | **Title and Name/Surname** | **Course Hours** | **Office Hours**  | **Contact** |
| **Course Coordinator** | Assoc. Prof. Dr. Gülhan TEMEL  | Saturday 13:30 to 16:30 |  | gulhanorekici@mersin.edu.tr  |
| **The aim of the course** | The main aim of this course is to enable students to comprehend the basic functions of statistics and the concepts, units of measurement and assumptions in this field, and various examples covering the field of psychology. In this way, to strengthen the student's background on which statistical techniques will be used in various research designs. In line with this main objective, it is aimed that the students will be able to use basic statistical techniques correctly, apply them and have the ability to report and interpret the results obtained from these tests. |
| **Course Learning Outcomes** |  | A student who completes the course successfully; | **İlişkiler** |
| **Prog. Çıktıları** | **Net Katkı** |
| 1 | Will be able to describe the basic concepts in psychological statistics. | 1 | **5** |
| 2 | Will be able to express the basic statistical methods conceptually and numerically. | 1, 2 | **5, 5** |
| 3 | Students will be able to apply appropriate statistical technique to psychological data. | 1, 4,6 | **5, 5** |
| 4 | Will be able to interpret the findings obtained in the analysis of psychological data correctly. | 3, 8 | **5, 5** |
|  | 5 | Students will be able to express statistical analyzes and results clearly and verbally. | 4, 8 | **5, 5, 4** |
| **Course Content: I**n this course, basic information about statistical methods used in psychology is taught. In addition to teaching basic hypothesis testing and conducting psychological data analysis, students are provided with the following statistical tests: t test, ANOVA and nonparametric tests. In addition to the basic elements underlying these tests, students will perform these tests manually. At the same time, students will learn to conduct these tests in the SPSS statistical program. |
| **Course Contents :( Weekly Lecture Plan)** |
| **Week** | **Topic** | **Preparation** | **Learning Activities and Teaching Methods** |
| 1 | Introduction of the course content: Basic concepts | Textbook | Lecture & Discussion |
| 2 | Frequency distributions | Textbook | Lecture & Discussion |
| 3 | Probability and normal distribution | Textbook | Lecture & Discussion |
| 4 | Standard points | Textbook | Lecture & Discussion |
| 5 | Independent sample t-test | Textbook | Lecture & Discussion |
| 6 | Dependent sample t-test | Textbook | Lecture & Discussion |
| 7 | One way ANOVA | Textbook | Lecture & Discussion |
| 8 | Midterm |  |  |
| 9 | ANOVA for repeated measurements | Textbook | None |
| 10 | Mixed ANOVA | Textbook | Lecture & Discussion |
| 11 | MANOVAs | Textbook | Lecture & Discussion |
| 12 | Nonparametric tests | Textbook | Lecture & Discussion |
| 13 | Mann-Whitney Test & Kruskal-Wallis | Textbook | Lecture & Discussion |
| 14 | Wilcoxon Test & Friedman Test | Textbook | Lecture & Discussion |
| 15 | An overview | Textbook | Lecture & Discussion |
| 16 | Final |  | None |
| **SOURCES** |
| Course Book | Büyüköztürk, Ş., Çokluk, Ö. ve Köklü, N. (2013, 12. baskı). Sosyal Bilimler için İstatistik. Ankara: Pegem Akademi Yayınları. |
| **Quantification and consideration** |
| **Activities** | **Number** | **Addition** | **Notes** |
| Midterm | **1** | **40%** | Total |
| Final | **1** | **60%** |  |
| ***Rate of Success for the Year*** |  | **40%** |  |
| ***Rate of Success for the final*** | **1** | **60%** | Total |
| **ECTS TABLE** |
| **Content** | **Number** | **Hour** | **Total** |
| Course Hour | **14** | **2** | **28** |
| Out-of-Class Study | **14** | **1** | **14** |
| Midterm | **1** | **4** | **4** |
| Final | **1** | **8** | **8** |
| **Total****Toal / 30****Ects Credit** | **60** |
| **136/30=4,53** |
| **5** |
| **GEÇMİŞ DÖNEM BAŞARILARI** |
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