METHOD AND STATISTICS IN EXPERIMENTAL RESEARCH

1	Course Title:	METHOD AND STATISTICS IN EXPERIMENTAL RESEARCH
2	Course Code:	PSI5102
3	Type of Course:	Compulsory
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	8.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. HASAN GÜRKAN TEKMAN
15	Course Lecturers:	Doç.Dr. Orçun Yorulmaz
16	Contact information of the Course Coordinator:	eposta:alici@uludag.edu.tr Oda tel: 0224-2941871 Adres:Uludağ Üniversitesi Fen Edebiyat Fakültesi Psikoloji Bölümü Görükle/Bursa
17	Website:	
18	Objective of the Course:	It is expected that an empirical study in psychology should have basic methodological characteristics such as having valid and reliable methods, being replicable and having statistically proven results. Thus, this course is about research methods and statistical procedures in not only experimental but also other kinds of research. The aim is to comprehend statistical methods used in scientific research and help students exemplify and administer these methods.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Be able to explain various kinds of scientific research methods
	2	Be able to list similarities and differences among descriptive and inferential statistics
	3	Be able to produce appropriate research questions for aims of different kinds of studies
	4	Be able to choose research design and method in line with research question
	5	Be able to determine statistical analysis for research design
	6	Be able to interpret outputs of various statistical analyses
	7	Be able to report results of statistical analyses
	8	Be able to exemplify implications and limitations of research findings
	9	
	10	

21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Introduction to the course and experimental research	
2	Internal and external validity in experimental research	
3	Decision with experimental data	
4	Descriptive and experimental statistics	
5	Between groups ANOVA	
6	ANCOVA	
7	Factorial ANOVA	
8	Repeated measures	
9	Course Review + Midterm	
10	MANOVA	
11	MANCOVA	
12	Discriminant analysis	
13	Logistic regression	
14	Review of statistical analyses and research methods	

| 22 | Textbooks, References and/or Other Materials: | Bulduk, S. (2003). Yeni başlayanlar için psikolojide deneysel araştırma yöntemleri. İstanbul: Çantay Kitabevi.

Field, A. (2009). Discovering statistics using SPSS, 3rd |

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	8.00	112.00
Homeworks	5	12.00	60.00
Quiz	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	12.00	12.00
Others	0	0.00	0.00
Final Exams	1	14.00	14.00
Contribution of Term (Year) Learning Activities to Total Work Load			240.00
Total work load/30 hr			8.00
ECTS Credit of the Course			8.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Projects	0	0.00
Midterm exams Final Exam	1	50.00
Final Exams Contribution of Final Exam to Success Grade	1 50.00	50.00

Measurement and Evaluation Techniques Used in the Course	

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	4	4	5	0	0	0	0	0	0	0	0	0	0	0	0

ÖK4	0	0	0	5	5	4	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	3	3	5	3	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	4	5	3	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	3	5	0	0	4	0	0	0	0	0	0	0	0	0
ÖK8	0	3	3	0	0	0	0	3	4	5	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications				
Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High