



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Advanced Statistics							
Course Code		IFC509		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to teach advanced statistical techniques used in family counseling.							
Course Content		Multivariate analyzes, data cleaning, exploratory and confirmatory factor analysis, path analysis, structural equation modeling							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study					
Name of Lecturer(s)		Assoc. Prof. Gökhan AKSU							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Tabachnick, B. G. ve Fidell, L. S. (2011). Multivariate statistics. Boston: Allyn and Bacon.
2	Şimşek Ö. F. (2006). Yapısal Eşitlik Modellemesine Giriş Temel İlkeler ve Lisrel Uygulamaları. Ankara: Ekinos Yayıncılık

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Multivariate Analysis
2	Theoretical	Data Cleaning
3	Theoretical	Regression
4	Theoretical	Multiple regression
5	Theoretical	Canonical correlation
6	Theoretical	Multiway frequency analysis
7	Theoretical	Analysis of covariance
8	Intermediate Exam	Midterm Exam
9	Theoretical	Multivariate analysis of variance
10	Theoretical	Multivariate analysis of variance
11	Theoretical	Basic component analysis
12	Theoretical	Exploratory factor analysis
13	Theoretical	Confirmatory factor analysis
14	Theoretical	Path Analysis
15	Theoretical	Structural equation modeling
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	14	0	2	28
Term Project	2	1	6	14
Individual Work	14	0	2	28
Midterm Examination	1	5	1	6
Final Examination	1	6	1	7
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	To learn the basic topics in multivariate analyzes.
2	To use statistical package programs for multivariate analyzes.
3	To write reports about multivariate analyzes.
4	To design research questions suitable for multivariate analyzes.
5	To select appropriate analyzes depending on the research questions they encounter.

Programme Outcomes (*Family Counseling Interdisciplinary Master*)

1	To learn the theories and applications of family and couple counseling
2	To gain family counseling skills in child and adolescent psychopathology
3	To apply scientific research methods
4	To look at parenting from a developmental perspective
5	Intervention to solve the crisis in the family
6	To gain communication and conflict resolution skills in the family
7	To analyze data using advanced statistical methods
8	To apply the techniques of interview and evaluation with family
9	To learn divorce mediation
10	To learn close relationships psychology and the communication between close relationships
11	To learn the basic theoretical explanations for the psychology of adulthood
12	To learn developmental psychopathology
13	To learn sexual dysfunctions and therapy
14	To learn to look at gender differences from a social psychology perspective

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P3	5	5	5	5	5
P7	5	5	5	5	5
P8	5	4	4	4	5

