AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Multivariate Statistical Analysis						
Course Code		UEK515		Couse Level		Second Cycle (Master's Degree)		
ECTS Credit	5	Workload	126 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course								
Course Content								
Work Placement		N/A						
Planned Learning Activities and Teaching Methods				Explanation (Presentation)				
Name of Lecturer(s)								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Necmi Gürsakal, R ile Programlama, Dora Yayınları, Bursa, 2014.
2	Hüseyin Tatlıdil, Uygulamalı Çok Değişkenli İstatistiksel Analiz, Ziraat Matbaacılık A. Ş. Ankara, 2002.
3	Editör: Şeref Kalaycı, SPSS Uygulamalı Çok Değişkenli İstatistik Teknikleri, Asil Yayınevi, 2010.

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic concepts areas of use for multivariate statistical analysis
2	Theoretical	Matrix theory for multivariate statistical analysis
3	Theoretical	Continious multivariate distributions
4	Theoretical	Multivariate normal distribution
5	Theoretical	Multivariate hypothesis testing
6	Theoretical	Principal component analysis
7	Theoretical	Factor analysis
8	Theoretical	Canonical correlation analysis
9	Theoretical	Discriminant analysis
10	Theoretical	Logistic regression analysis
11	Theoretical	Cluster analysis
12	Theoretical	Multidimensional scale
13	Theoretical	Comparison of principal component analysis and multidimensional scale
14	Theoretical	Multivariate regression analysis

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	6	3	126
			Total Workload (Hours)	126
			[Total Workload (Hours) / 25*] = **ECTS**	5

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	
3	
4	
5	

Programme Outcomes *(Applied Econometry Interdisciplinary Master)*

1	Will be able to collect data related to social and economic topics.
2	Will be able to get raw data ready for statistical and econometric analysis.
3	Will be able to build econometric models that describe the data generating process behind data.
4	Will be able to interpret the results that are obtained through econometric analysis.
5	Will be able to conduct an independent empirical research project from start to finish.

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

	L1	L2	L3	L4	L5
P1	2	2	2	3	1
P2	2	5	5	5	2
P3	5	4	5	5	2
P4	3	5	2	5	3
P5	4	5	3	1	5