AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Multivariate Analysis								
Course Code	İŞLE604		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	5	Workload	127 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The course prepares students to increase the knowledge issues and current applications of multivariate analysis includes topics.								
Course Content	Issues related to the processing of Multivariate Analysis.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Problem Solving								
Name of Lecturer(s)	Assoc. Prof. Engin ÇAKIR								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Narayan C. Giri, Multivariate Statistical Analysis, Marcel Dekker, 2004.
2	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.

Week	Weekly Detailed Course Contents	
1	Theoretical	Multi-variable techniques and basic concepts
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
2	Theoretical	Multivariate statistical techniques, the assumptions
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
3	Theoretical	Principal component analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
4	Theoretical	Factor analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
5	Theoretical	Linear regression and correlation analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
6	Theoretical	Biased estimation techniques
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
7	Theoretical	Nonlinear regression analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
8	Intermediate Exam	Midterm Exams
9	Theoretical	Nonlinear regression analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
10	Theoretical	The two-group discriminant analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.

11	Theoretical	Multi-group discriminant analysis
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
12	Theoretical	Logistic regression analysis of the input
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
13	Theoretical	Logistic regression analysis showed the completion of the subject
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
14	Theoretical	Canonical regression analysis, the input
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
15	Theoretical	Canonical regression analysis completed
	Preparation Work	Albayrak Ali Sait, Uygulamalı Çok Değişkenli İstatistik teknikleri, Asil yayın dağıtım Şti, Ankara-2006.
16	Final Exam	Final Exams
17	Final Exam	Final Exams

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Midterm Examination	1	25	1	26
Final Examination	1	30	1	31
			Total Workload (Hours)	127
			[Total Workload (Hours) / 25*] = **ECTS**	5

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	Multi-variable analysis of the dominant issues.
2	Multi-variable analysis of the dominant practices of
3	Statistical adequacy issues
4	Implementation of multi-variable analysis, the SPSS program qualification
5	Will be able to estimate nonlinear models.

Programme Outcomes *(Business Administration Doctorate)*

1	To be able do and report scientific research and acquire skills for doing independent work
2	Have ethical sensitivity in plannning and carrying out a scientific work
3	Be able to use the qualitative and quantitative reseach techniques appropriately in scientific work
4	Acquire team working skills to carry out disciplinary and interdisciplinary work
5	Develop competencies for preparing projects for business
6	Acquire skills for intiative, creativity and acting independent
7	Be able to adjust to new circumstances and gain problem solving skills
8	Be able to convey thoughts and suggestions supported by the qualitative and quantitative data effectively to the experts and non-experts of the area using written, verbal and non-verbal communication skills
9	Gain the necessary experience and capabilities for a productive and competent career in teaching and research
10	Be able to select and use the appropriate mathematical and statiscal methods in scientific work.

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	3	4	3	4	3
P2	3	4	4	4	3
P3	4	4	4	2	3
P4	4	3	3	2	2
P5	3	4	4	2	4

P6	4	4	4	3	4
P7	5	4	2	2	4
P8	4	2	2	4	2
P9	2	2	2	2	2
P10	2	1	4	2	3