AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Mathematical Statistics						
Course Code	UEK520		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	Mustafa Aytaç, Matematiksel İstatistik, Ezgi Kitabevi, Bursa, 1999.
2	Robert V. Hogg, Joseph W. McKean, Allen Thornton Craig, Introduction to Mathematical Statistics, Pearsın Education, 2005.

Week	Weekly Detailed Course Contents	
1	Theoretical	Probability
2	Theoretical	Random variables
3	Theoretical	Random variables
4	Theoretical	Expected value, variance and moments
5	Theoretical	Expected value, variance and moments
6	Theoretical	Expected value, variance and moments
7	Theoretical	Discrete distributions (MİD-TERM EXAM)
8	Theoretical	Continuous distributions
9	Theoretical	Continuous distributions
10	Theoretical	Relations between distributions
11	Theoretical	Statistical decision theory and decision making
12	Theoretical	Statistical decision theory and decision making
13	Theoretical	Variance analysis
14	Theoretical	Variance 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	
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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	L6	L7	L8
P1	5	5	3	3	3	5	2	4
P2	5	4	5	4	3	5	3	2
P3	5	4	4	4	4	4	5	3
P4	5	5	5	3	4	5	4	3
P5	5	3	4	5	4	3	5	3