

AYDIN ADNAN MENDERES UNIVERSITY GRADUATE SCHOOL OF SOCIAL SCIENCES ECONOMICS ECONOMICS ECONOMICS MASTER COURSE INFORMATION FORM

Course Title Data Analysis – II								
Course Code	EKO520		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 5	Workload	124 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course The main objective of this course is to provide a basic understanding of data analysis course it in applicons with the R software. The course will cover basic approaches in statistic well as an introduction to basic machine learning algorithms.					alysis concepts in statistical infe	and to rence as		
Course Content	The main subj models, verify learining algor	ects of the co ing model ass ithms in engir	urse are gra umptions us neering prob	aphical and o sing statistic lems.	quantitative me s, testing hypo	ethods to desc othesis and ap	cribe data, using plying basic ma	statistics chine
Work Placement	N/A							
Planned Learning Activities and Teaching Methods		Explanation	n (Presentat	tion)				
Name of Lecturer(s)								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	SPSS ile veri analizi, Nuran Bayram, N.(2009), SPSS ile veri analizi, Seçkin yayıncılık, Ankara.
2	Introductory Statistics with R, P. Dalgaard, Springer, 2008 Practical Data Science with R, N. Zumel and J. Mount, Manning Publications, 2014
3	Data Analysis and Graphics using R: An Example-Based Approach, J. Maindonald and W.J. Braun, Cambridge University Press, 2010 ISBN 0521762936.

Week	Weekly Detailed Course	urse Contents					
1	Theoretical	Compilation of data					
2	Theoretical	Transferring data to a computer					
3	Theoretical	Tables and Charts					
4	Theoretical	Averages					
5	Theoretical	Dispersion and tilt measurements					
6	Theoretical	Index numbers					
7	Intermediate Exam	Revision of Midterm Exams					
8	Intermediate Exam	Midterm Exams					
9	Theoretical	Regression and correlation analysis					
10	Theoretical	Hypothesis testing					
11	Theoretical	Hypothesis testing					
12	Theoretical	Non-parametric tests					
13	Theoretical	Non-parametric tests					
14	Theoretical	Non-parametric tests					
15	Final Exam	Final Exams					

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	15	3	3	90			
Midterm Examination	1	10	2	12			



				Course Information Form
Final Examination	1	20	2	22
		Тс	otal Workload (Hours)	124
		[Total Workload (Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes			
1	Describe various styles of interpretation of qualitative da	ata		
2	Articulate the relative appropriateness of different analyst	sis ap	proaches for a particular qualitative study	
3	Have enough knowledge of mathematics to understand	the th	neory and application of statistics	
4	To be able to use the resources related to statistics			
5	Can use the abstract and analytical thinking ability			

Programme Outcomes (Economics Master)

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1	To be able to bring up specialized economists with competent knowledge in the field of economics.
2	To be able to train Master of Economics graduates to be employed at public and private banks.education and research institutions.
3	To be able to complete a master's degree in Economics with the competence and ability to analyze macro and microeconomic issues.
4	To be able to examine Turkey's economic policies and determine what policies will be successful in determining the economic state.
5	To be able to give insight to self educate about financial markets and international financial markets.
6	To be able to succeed in the examining the economic thought ystems and their influences on the current economic policies.
7	To be able to educate students as those who are knowledgeable about Turkey-EU economic relations and equipped to interprete on the issue
8	To be able to assess the higher levels ofdevelopment gap between the regions of Turkey and to deal with those problems with the perspective of social and economic diversities. i
9	To be able to introduce the market with specialists in economics mastering the new dynamics of change in the economy and the new role of the state.
10	To be able to increase the development of knowledge and technology in Turkey by examining their reflections on the economy.
11	To be able to have knowledge and capacity to assess the financial crises in Turkey,
12	To be able to increase awareness about monitoring Turkey's economic history.
13	To be able to bring up specialists who can reach the data about the structure of the labor force and unemployment rates to make the data analysis with these data.

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	4	4	4	4	4
P2	4	4	4	4	4
P3	4	4	4	4	4
P4	4	4	4	4	4
P5	4	4	4	4	4
P6	4	4	4	4	4
P7	4	4	4	4	4
P8	4	4	4	4	4
P9	4	4	4	4	4
P10	4	4	4	4	4
P11	4	4	4	4	4
P12	4	4	4	4	4
P13	4	4	4	4	4

