



**AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF SOCIAL SCIENCES
MANAGEMENT INFORMATION SYSTEMS
MANAGEMENT INFORMATION SYSTEMS
MANAGEMENT INFORMATION SYSTEMS MASTER
COURSE INFORMATION FORM**

Course Title	Multiple Variable Analysis								
Course Code	MIS523	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	7	Workload	181 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	Text mining applications for social science studies with respect to conceptual integration of consciously selected methods, systematic optimization of algorithms and workflows, and methodological reflections relating to empirical research. In an exemplary study, he introduces workflows to analyze a corpus of around 600,000 newspaper articles on the subject of "democratic demarcation" in Germany. He provides a valuable resource for innovative measures to social scientists and computer scientists in the field of applied natural language processing. Contents • Qualitative Data Analysis in a Digital World • Computer-Assisted Text Analysis in the Social Sciences • Integrating Text Mining Applications for Complex Analysis								
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Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Silver C., & Lewins, A., (2014) "Using Software in Qualitative Research: A step by step guide" 2nd Edt. Sage,UK
2	QDA Miner Training Workbook, Provalis Research 2014

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Qualitative Data Analysis
2	Theoretical	CAQDAS – Computer Assisted Qualitative Data Analysis Softwares
3	Theoretical	QDA Miner - Introduction and Creating Qualitative Research Projects
4	Theoretical	Variables / Cases
5	Theoretical	Creating Coding Scheme (Codebook) and Coding
6	Theoretical	Analyses
7	Theoretical	Analyses
8	Theoretical	Midterm
9	Theoretical	Discussions on Research Proposals
10	Theoretical	Wordstat - Content Analysis and Text Mining
11	Theoretical	Analyzing Words without Dictionaries
12	Theoretical	Content Analysis – Principles of Dictionary Construction
13	Theoretical	Introduction to Automatic Document Classification
14	Theoretical	Overall Assessment
15	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	16	3	3	96
Assignment	1	4	20	24



Individual Work	16	1	2	48
Midterm Examination	1	3	1	4
Final Examination	1	4	5	9
Total Workload (Hours)				181
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Students will gain the knowledge and skills to learn and apply the basic concepts of multivariate data analysis.
2	Students will learn multivariate data preprocessing methods
3	Students will be able to analyze multivariate data using statistical techniques
4	Students will learn statistical learning methods.
5	Students will have knowledge about regression methods.

Programme Outcomes (Management Information Systems Master)

1	Be aware of the different types of information technologies and systems using in business, have enough knowledge to design a suitable system
2	Analyse the needs for an information systems and have control over the processes at the analysis, design and implementation stages of the database that belongs to the system
3	Convey information about current trends and their own studies both verbally and visually ways.
4	Be able to follow current developments in modern business techniques and technologies, especially information technologies
5	Understand the interaction between his department and other relational departments, if necessary make a team, take responsibility and do the works with team.
6	Know the information technologies and systems using in different types of business, if necessary take the system responsibility.
7	Be aware of the social transformation especially in their own field and social, legal and moral responsibilities belongs to other work field.
8	Develop their knowledge to the level of expertise which they learn them in license level.
9	Carry out a work which requires an expertness in their field.
10	Construct and perform an academic 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	5	4	5	4	4
P2	4	4	5		
P3	4	5	5		4
P4	4	5		4	4
P5	4	5	5	4	4
P6		5	5	4	4
P7	4	5	5		4
P8	4	5	5	4	4
P9	4	5	5	4	4
P10	4	5	5	4	5

