



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Academic Software							
Course Code		MTK533		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		This course aims to teach the preparing of scientific reports by using LaTeX markup language.							
Course Content		The history of academic software, Internet and knowledge source, Searching in the internet , LaTeX and mathematical writing, The comparison LaTeX and Word, Article style, Book style, Thesis style, LaTeX's error Messages, Preparing index and reference.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study					
Name of Lecturer(s)		Lec. Okan ARSLAN							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Assignment	2	100

### Recommended or Required Reading

1	LaTeX: A Document Preparation System, Leslie Lamport, 1992.
2	Guide to LaTeX , Helmut Kopka and Patrick W. Daly, 2003

Week	Weekly Detailed Course Contents	
1	Theoretical	Scientific databases, internet and knowledge source
2	Theoretical	Scientific databases, internet and knowledge source
3	Theoretical	Scientific databases, internet and knowledge source
4	Theoretical	Comparison with LaTeX and other word processing software
5	Theoretical	LaTeX and mathematical writing
6	Theoretical	LaTeX and mathematical writing
7	Theoretical	Project with LaTeX
8	Theoretical	Article style in LaTeX
9	Intermediate Exam	Midterm Exam (Preparing a document in article style as homework)
10	Theoretical	Book style in LaTeX
11	Theoretical	Writing thesis with LaTeX
12	Theoretical	Preparing index and bibliography in LaTeX
13	Theoretical	Drawing graphics with LaTeX
14	Theoretical	Preparing a presentation with LaTeX
15	Theoretical	Preparing a presentation with LaTeX
16	Final Exam	Final Exam (Preparing a presentation as homework)

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	3	84
Assignment	2	56	2	116
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Ability to format document via LaTeX mark-up language.
2	Ability to write mathematical formulae using LaTeX.
3	Ability to prepare scientific reports with academic software.
4	Ability to plot graphics with LaTeX.



5	Ability to prepare a presentation with LaTeX.
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**Programme Outcomes (Mathematics Master)**

1	To be able to have an adequate theoretical and practical domain knowledge.
2	To be able to comprehend the interdisciplinary interaction associated with Mathematics.
3	To be able to use theoretical and practical domain knowledge gained in the field of Mathematics.
4	To be able to interpret knowledge from different disciplines integrating knowledge in the field of mathematics and produce new information.
5	To be able to define, analyse, model and to solve the problems by scientific methods in Mathematics.
6	To be able to conduct a math related specialistic study independently.
7	To be able to develop new strategic approaches to solve problems occurred in unforeseen and complex math-related applications by taking responsibility.
8	To be able to lead in situations that require solving problems related to the mathematics.
9	To be able to criticize his/her knowledge and skills acquired in the field mathematics.
10	To be able to transfer his/her ideas and suggestions for solutions to problems by supporting quantitative or qualitative data verbally and in writing.
11	To be able to communicate both orally and written in a foreign language.
12	To be able to use computer hardware and information technologies with software required by Mathematics.
13	To be able to contribute to the solution of the social, scientific, cultural and ethical problems related to the Mathematics, and being able to support the development of social, scientific, cultural and ethical values.
14	To be able to develop mathematics-related strategies, policies and operational plans, and to evaluate the results obtained within the framework of quality processes.
15	To be able to use his/her knowledge in the field of mathematics and practical problem-solving skills in interdisciplinary studies.

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

	L1	L2	L3	L4	L5
P10	4	4	4	4	4
P12	5	5	5	5	5

