



ESOGÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM

SEMESTER | Fall

COURSE CODE	821615004	COURSE NAME	Mathematical Writing and Design
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
5	3	0	0	3	5	COMPULSORY (x) ELECTIVE ()	Turkish

COURSE CATAGORY

Mathematics	Computer		Social Science
	X		

ASSESSMENT CRITERIA

	Evaluation Type	Quantity	%
MID-TERM	1st Mid-Term	1	40
	2nd Mid-Term		
	Quiz		
	Homework		
	Project		
	Report		
	Others (.....)		
FINAL EXAM		1	60
PREREQUIEITE(S)	None.		
COURSE DESCRIPTION	Basic Concepts, LaTeX Input Files, Titles, Chapters and Sections, References, Protecting Fragile Command, Typesetting Mathematical Formula, Theorems, Lemmas, Bibliography and Indexing, Producing Mathematical Graphic, XY-Pic, PSTricks		
COURSE OBJECTIVES	Presenting main concepts and techniques in the content of the lesson, improving students' mathematical documents writing skills by practising these concepts and techniques		
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Gaining analytical thinking, problem solving and modelling skill.		
COURSE OUTCOMES	Having sufficient knowledge about mathematical writing and design; the ability of modelling and solving the problems by using the theoretical and applied information		
TEXTBOOK	LaTeX: A Document Preparation System, Leslie Lamport		
OTHER REFERENCES	1) The LaTeX Companion, Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle 2) Guide to LaTeX, Guide to LaTeX (4th Edition) Helmut Kopka , Patrick W. Daly.		
TOOLS AND EQUIPMENTS REQUIRED	None.		

COURSE SYLLABUS

WEEK	TOPICS
1	Basic Concepts
2	LaTeX Input Files
3	Titles
4	Chapters and Sections
5	References
6	Protecting Fragile Command
7	Typesetting Mathematical Formula
8	Midterm Exam
9	Theorems, Lemmas
10	Applications
11	Producing Bibliography
12	Producing Index
13	Producing Mathematical Graphic
14	XY-Pic
15	PSTricks
16-17	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	The ability to apply knowledges of Mathematics and Computer Sciences,	X		
2	To have sufficient theoretical and practical knowledge of Mathematics at international level,		X	
3	The ability of describing, modelling and solving of mathematical problems at Mathematics and related subjects,	X		
4	The skill to solve and design a problem process in accordance with a defined target,	X		
5	Skills to analyze data, interpret and apply to other datum and using these data on computer,	X		
6	The skill to use the modern techniques and computational tools needed for mathematical applications,	X		
7	The skill to make team work within the discipline and interdisciplinary,			X
8	The ability to improve oneself by following the developments on other modern, scientific and technological subjects as well as Mathematics and Computer Sciences,	X		
9	The skill to communicate orally and in written way, in a clear and concise manner by having individual work skills and ability to independently decide and analytical thinking,		X	
10	The skill to have professional and ethical responsibility,			X
11	The skill to have consciousness for quality issues and scientific research,			X
12	The skill to be sensitive to environmental issues related with problems and development of living area and consistent in the social relations,		X	
13	Ability to solve problems in the working life faced to find an appropriate algorithms via mathematical modeling and to write computer programs,	X		
14	The skill to developed design of software systems at different complex levels,	X		
15	The credence of necessity of life-long learning and ability to apply the formation long-life learning.		X	

1:None. 2:Partially contribution. 3: Completely contribution.

Instructor(s): Prof. Dr. Mahmut KOÇAK

Signature:

Date: