



ESOGÜ Mathematics and Computer Sciences COURSE INFORMATION FORM

SEMESTER	Fall
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COURSE CODE	821617020	COURSE NAME	Maple I
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
7	2	2	0	3	5	COMPULSORY () ELECTIVE (X)	Turkish

COURSE CATAGORY

Mathematics	Computer		Social Science
x	x		

ASSESSMENT CRITERIA

	Evaluation Type	Quantity	%
	MID-TERM	1st Mid-Term	1
2nd Mid-Term			
Quiz			
Homework			
Project			
Report			
Others (.....)			
FINAL EXAM		1	50

PREREQUIEITE(S)	None.
COURSE DESCRIPTION	An Introduction To Maple Maple and Mathematics, Concepts of Elementary Mathematics in Maple (Calculus, Geometry).
COURSE OBJECTIVES	The aim of this course is to introduce the Mathematical Program, MAPLE-V, and solving Some Basic Math Problems in MAPLE.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Gains the ability of research in Mathematics and Learns "How to use the MAPLE ?".
COURSE OUTCOMES	Be able to solve some Math problems in MAPLE.
TEXTBOOK	1-) Maple V : B. W. Char; K. O. Geddes; G. L. Gonnet – Springer Verlag 2-) Maple ve Matematik : Basri Çelik
OTHER REFERENCES	Maple V Computer Program
TOOLS AND EQUIPMENTS REQUIRED	None.

COURSE SYLLABUS

WEEK	TOPICS
1	What is the MAPLE?
2	Introduction to MAPLE.
3	MAPLE and Mathematics
4	MAPLE and Calculus
5	MAPLE and Calculus
6	MAPLE and Calculus
7	MAPLE and Calculus
8	Mid-term Exam
9	MAPLE and Linear Algebra
10	MAPLE and Linear Algebra
11	MAPLE and Linear Algebra
12	MAPLE and Geometry
13	MAPLE and Geometry
14	MAPLE and Geometry
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	The ability to apply knowledges of Mathematics - Computer,	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 - Computer,		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): Assoc. Prof. Ahmet Faruk ASLAN

Signature:

Date: