



# ESOGÜ Mathematics and Computer Sciences COURSE INFORMATION FORM

<b>SEMESTER</b>	Fall
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<b>COURSE CODE</b>	821615011	<b>COURSE NAME</b>	Data Security
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
5	3	0	0	3	5	COMPULSORY ( ) ELECTIVE ( x )	Turkish

### COURSE CATAGORY

Mathematics	Computer	Social Science
	X	

### ASSESSMENT CRITERIA

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

<b>PREREQUIEITE(S)</b>	None.
<b>COURSE DESCRIPTION</b>	Cryptography and variable security types.
<b>COURSE OBJECTIVES</b>	To teach the subject in the content the course.
<b>ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION</b>	Preparing students for more advanced works in Computer Science.
<b>COURSE OUTCOMES</b>	To have knowledge in the content the course.
<b>TEXTBOOK</b>	Security in Computing , C.P.Pfleeger & S.L.Pfleeger
<b>OTHER REFERENCES</b>	Internet and other lecture notes.
<b>TOOLS AND EQUIPMENTS REQUIRED</b>	None.

## COURSE SYLLABUS

WEEK	TOPICS
1	Introduction to Data Security
2	Cryptography
3	Cryptography
4	Protocol security
5	Midterm
6	Protocol security
7	Software security
8	Software security
9	Security in Networks
10	Security in Networks
11	Security in Networks
12	Security Management
13	Security Management
14	Legal Issues
15,16	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):** Dr. Özer ÇELİK

**Signature:**

**Date:**