



**ESOGÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM**

SEMESTER	Fall
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COURSE CODE	821617026	COURSE NAME	Finite Geometries 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 (x) ELECTIVE ()	Turkish

COURSE CATAGORY

Mathematics	Computer		Social Science
x			

ASSESSMENT CRITERIA

	Evaluation Type	Quantity	%
MID-TERM	1st Mid-Term	1	40
	Quiz		
	Homework		
	Project		
	Report		
	Others (.....)		
FINAL EXAM		1	60
PREREQUIEITE(S)	None.		
COURSE DESCRIPTION	Basic concepts of finite geometries, designs, combinatoric properties of finite planes		
COURSE OBJECTIVES	To introduce the finite geometries		
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	To obtain information about finite geometries		
COURSE OUTCOMES			
TEXTBOOK	Finite Geometries - Dembowski		
OTHER REFERENCES	None.		
TOOLS AND EQUIPMENTS REQUIRED	None.		

WEEK	
1	Basic concepts
2	Finite incidence relation
3	Transformations preserving on finite incidence relation
4	Incidence matrices
5	Designs
6	Combinatorial properties
7	Problem solving on course topics
8	Midterm exam
9	Combinatorial properties
10	Automorphisms of designs
11	Costruction of designs
12	Costruction of designs
13	Combinatorics of in finite projective and finite affine planes
14	Combinatorics of in finite projective and finite affine planes
15	Problem solving on course topics
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 algoritms 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. Süheyla EKMEKÇİ

Signature:

Date: