ESOGÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM

SEMESTER	Spring

COURSE CODE	821618022	**COURSE NAME**	Finite Geometries II

SEMESTER	**WEEKLY COURSE PERIOD**			**COURSE OF**			
	Theory	**Practice**	**Labratory**	**Credit**	**ECTS**	**TYPE**	**LANGUAGE**
8	2	2	0	3	5	COMPULSORY (x) ELECTIVE ( )	Turkish

COURSE CATAGORY				
Mathematics	**Computer**			**Social Science**
x				

ASSESSMENT CRITERIA			
MID-TERM	**Evaluation Type**	**Quantity**	**%**
	Mid-Term	1	40
	Quiz		
	Homework		
	Project		
	Report		
	Others (………)		
FINAL EXAM		1	60

PREREQUIEITE(S)	None.
COURSE DESCRIPTION	Correlation and polarity of finite geometries; Collineations of finite planes; Collineation groups; Construction of finite planes; Algebraic representations.
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	Correlations and polarities in finite projective and finite affine planes	
2	Projectivities in finite projective and finite affine planes	
3	Collineations of finite planes	
4	Problem solving on course topics	
5	Collineation groups	
6	Central collineations	
7	Problem solving on course topics	
8	Midterm exam	
9	Groups with few orbits	
10	Groups with few orbits	
11	Construction of finite planes	
12	Algebraic representations	
13	Algebraic representations	
14	Problem solving on course topics	
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:**