



ESOĞÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM

SEMESTER | Fall

COURSE CODE	821618006	COURSE NAME	Projective Geometry II
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
8	3	0	0	3	5	COMPULSORY () ELECTIVE (x)	Turkish

COURSE CATAGORY

Mathematics	Computer		Social Science
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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)			
COURSE DESCRIPTION	Izomorfizm and otomorfizm, One dimentional transformation in projektive planes, central colinations, connections between central collinations and special Dezargues theorems		
COURSE OBJECTIVES	To give algebraic structure of a projective plane as a non-Euclidian plane		
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	To inform connections between algebra and geometry		
COURSE OUTCOMES	1. To introduce non-Euclidian geometries, 2. To discover some relations between algebra and geometry 3. To introduce non-Euclidian geometries		
TEXTBOOK	Projektif Geometri (Kaya, R.)		
OTHER REFERENCES	Combinatorics of finite geometries (Batten, L.M.)		
TOOLS AND EQUIPMENTS REQUIRED			

COURSE SYLLABUS

WEEK	TOPICS
1	Transformations in projective planes (izomorphizm and outhomorphism)
2	One dimensional transformations in projective planes
3	Perspectives and projectivities
4	Perspectives and projectivities
5	Midterm
6	Central colinations
7	Problem Solutions
8	Midterm
9	Colinetions of $P_2 B$
10	Colinetions of $P_2 F$
11	Connections between projectivities and colinations
12	Connections between projectivities and colinations
13	Projectivities
14	Examples of Projectivities
15	Problem Solutions
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. Ziya AKÇA

Signature:

Date: