



# ESOGÜ Mathematics and Computer Sciences COURSE INFORMATION FORM

<b>SEMESTER</b>	Spring
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<b>COURSE CODE</b>	821618014	<b>COURSE NAME</b>	Quadratic Geometries 2
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
8	2	2	0	3	5	COMPULSORY ( ) ELECTIVE ( X )	Turkish

### COURSE CATAGORY

<b>Mathematics</b>	<b>Computer</b>		<b>Social Science</b>
X			

### ASSESSMENT CRITERIA

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

<b>PREREQUIEITE(S)</b>	Study Lie geometry in detail. Students should be make a profit of skill to search, gather and tell about given themes.
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<b>COURSE DESCRIPTION</b>	Students should be lern Lie geometry. They should be learn to make use of libraries, papers and internet. .
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<b>COURSE OBJECTIVES</b>	To analyze the data, evaluating, and ability to perform. Ability to apply knowledge of basic mathematics. Formulate and solve related problems. Ability to use computers, computer software, such modern methods, technique. Effective written and oral communication skills. Mathematical ability to understand the efficacy of national and global solutions. Understand the importance of lifelong learning and application skills.
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<b>ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION</b>	Vorlesung über Geometrie (Prof. Dr. Walter Benz)
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<b>COURSE OUTCOMES</b>	Books, papers and thesis implicating Möbius and Laguerre geometry.
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<b>TEXTBOOK</b>	None.
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<b>OTHER REFERENCES</b>	Study Lie geometry in detail. Students should be make a profit of skill to search, gather and tell about given themes.
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<b>TOOLS AND EQUIPMENTS REQUIRED</b>	Students should be lern Lie geometry. They should be learn to make use of libraries, papers and internet. .
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## COURSE SYLLABUS

WEEK	TOPICS
1	Lie geometry
2	Lie geometry
3	Lie zykel
4	Lie zykel
5	Midterm
6	Coordinates of zykel
7	Coordinates of zykel
8	Model of cylinder
9	Lie configurations
10	Midterm
11	Lie configurations
12	Automorphism group
13	Automorphism group
14	Research problems in Möbius geometry
15,16	Final

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):**

**Signature:**

**Date:**