



ESOGÜ Mathematics and Computer Sciences Department  
COURSE INFORMATION FORM

SEMESTER	Fall
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COURSE CODE	821611002	COURSE NAME	Analytic Geometry I
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
1	3	0	0	3	4	COMPULSORY ( x) ELECTIVE ( )	Turkish

COURSE CATAGORY

Mathematics	Computer		Social Science
x		X	

ASSESSMENT CRITERIA

	Evaluation Type	Quantity	%
	MID-TERM	Mid-Term	1
Quiz			
Homework			
Project			
Report			
Others (.....)			
FINAL EXAM		1	60
PREREQUIEITE(S)	none		
COURSE DESCRIPTION	Linear equation systems, Matrices, Determinats, Vectors, Curves		
COURSE OBJECTIVES	To define plane geometry		
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	To obtain information about plane geometry		
COURSE OUTCOMES			
TEXTBOOK	Analitik Geometri Rüstem Kaya		
OTHER REFERENCES	Çözümlü Analitik Geometri Problemleri Rüstem Kaya		
TOOLS AND EQUIPMENTS REQUIRED			

## COURSE SYLLABUS

WEEK	TOPICS
1	Linear equation systems
2	Matrices, Determinants
3	Coordinates in plane
4	Cartesian coordinates in space
5	Vectors
6	Algebra of vectors
7	Linear independence vectors
8	Midterm
9	Translations of coordinate in plane
10	Curves
11	Circle, ellipse,
12	Hyperbola, parabola
13	Conics
14	Applications of conics
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 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:**