



ESOGÜ Mathematics and Computer Sciences Department  
COURSE INFORMATION FORM

SEMESTER | Spring

COURSE CODE	821612002	COURSE NAME	Analytic Geometry II
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			LANGUAG E
	Theory	Practice	Labratory	Credit	ECTS	TYPE	
2	3	0	0	3	4	COMPULSORY ( x ) ELECTIVE ( )	Turkish

COURSE CATAGORY

Mathematics	Computer		Social Science
x			

ASSESSMENT CRITERIA

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

PREREQUIEITE(S)	None.
COURSE DESCRIPTION	Line and plane in space, coordinates systems in, Surfaces.
COURSE OBJECTIVES	To define space plane geometry.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	To obtain information about space geometry.
COURSE OUTCOMES	To have knowledge in the content the course.
TEXTBOOK	Analitik Geometri , Rüstem Kaya
OTHER REFERENCES	Çözümlü Analitik Geometri Problemleri , Rüstem Kaya
TOOLS AND EQUIPMENTS REQUIRED	None.

## COURSE SYLLABUS

WEEK	TOPICS
1	Line in space
2	Plane in space
3	Relationship between line and plane
4	Symmetry in space
5	Change of coordinates in space
6	The general quadratic equation
7	Sphere, cylinder, cone
8	Midterm
9	Linear surfaces
10	Surfaces of revolution
11	Translations of coordinate in space
12	Quadratic surface
13	Applications of quadric
14,15	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:**