ANALYTICAL GEOMETRY

1	Course Title:	ANALYTICAL GEOMETRY	
2	Course Code:	İMÖ2011	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	2.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. RIDVAN EZENTAŞ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	rezentas@uludag.edu.tr 0224 2942287 Uludağ Üniversitesi Eğitim Fakültesi, E Blok, Matematik ve Fen Bilimleri Bölümü, Matematik Eğitimi ABD.	
17	Website:		
18	Objective of the Course:	To present the shapes and properties of geometric sizes in a concrete way and to make geometric interpretation of some algebraically expressed information.	
19	Contribution of the Course to Professional Development:	Creates and develops the knowledge base of the prospective teacher. Comprehends the concepts related to the field and the relations between concepts based on the competencies gained in secondary education. Have defines and analyzes problems related to his field, and develops solutions based on evidence and research.	
20	Learning Outcomes:		
		1	define point and line in the analytic plane
		2	define vectors in the plane
		3	restate line in the plane
		4	restate circle in the plane
		5	restate ellipse in the plane
		6	restate hyperbola in the plane
		7	restate parabola in the plane
		8	define vector concept in the space
		9	translate equations of line in the space
		10	translate equations of plane in the space
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Lesson introduction and vectors in the plane	
2	Vectors in the plane	
3	Equations of lines in the plane	

4	Equations of lines in the plane	
5	Tapers. Geometrical location. Analytical examination of the circle	
6	Analytical examination of the ellipse	
7	Analytical examination of the hyperbola	
8	Analytical examination of the parabola	
9	Vectors in space	
10	Equation of line in space	
11	The plane equation	
12	Surface of the Sphere	
13	Curves and cylinders in space	
14	Cones	

22	Textbooks, References and/or Other Materials:	Mustafa Balcı, Analitik Geometri Hacısalihoğlu, H. 2 ve 3 Boyutlu Uzaylarda Analitik Geometri *Sabuncuoğlu, A. Analitik Geometri(2003) *Thomas, G. Calculus ve Analitik Geometri *Stein, S. Calculus ve Analitik Geometri
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the		final exams are taken into consideration in the measurement and evaluation of the course

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	7	1.00	7.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			60.00
Total work load/ 30 hr			2.00
ECTS Credit of the Course			2.00

24 ECTS / WORK LOAD TABLE

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	3	1	3	3	1	3	2	0	0	0	0	0	0	0	0	0
ÖK2	3	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**