ANALYTIC GEOMETRY II									
1	Course Title:	ANALYTIC GEOMETRY II							
2	Course Code:	MAT2014							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	cle						
5	Year of Study:	2	2						
6	Semester:	4							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Prof. Dr.	CENGIZHAN MURATHAN						
15	Course Lecturers:	Prof.Dr. ÇELİK	Süleyman ÇİFTÇİ,Prof. Dr. Kadri ARSLAN,, Prof.Dr. Basri						
16	Contact information of the Course Coordinator:	cengiz@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The purpose of this course is to give the principal information about the geometry to the students(which they need to during the undergraduate and graduate education). Teach the ways of how to solve the encountered problems. The other purpose of this course is to construct the fundamental for the Euclid, Differential Geometry and non-Euclidean geometries.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	They understand the concept of line and plane in space						
		2	They learn the geometric interpretation of vector and scalar product.						
		3	They learn the definition of surface.						
		4	They have general information about Sphere, cone, cylinder surface.						
		5	They learn, surfaces of revolution and quadratic surfaces.						
		6	They learn other coordinate systems in space,cylindrical coordinates, spherical coordinates and polar coordinates						
		8	They learn curves in the space						
		9							
		10							
21	Course Content:	_							
		Co	ourse Content:						
Week	ek Theoretical Practice								

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1	Cartesian coordinates in space, Space vectors, vector operations.	ce	Exercise					
	vocate, vocate operatione.							
	The line equation is energy parallel a	nd	Evereine					
2	The line equation in space, parallel a perpendicular lines, angle between two		Exercise					
	the distance from a Line to a point							
3	The intersection point of two lines, th		Exercise					
	distance between two lines, plane eq Plane equation(three points given)	uation,						
4	Line and plane relation,the volume of		Exercise					
	tetrahedron, Planes relative to each of situations, the situations of a line and							
	symmetry.	a plane,						
5	Definition of surface and sphere surfa	ace.	Exercise					
6	Cylinde surfacer		Exercise					
7	Cone surface		Exercise					
8	Surfaces of Revolution		Exercise					
	Surfaces of Revolution							
9	Quadric surfaces		Exercise					
10	Rotations in Space		Exercise					
11	Curves in Space, helixes, intersection	n curves	Exercise					
	of surface		LACTORIO CONTRACTORIO CONTRACTO					
12	Cylindrical coordinates, spherical coo	ordinates,	Exercise					
	polar coordinates							
13	analytic geometry on the n-dimension	nal	Exercise					
14	space, a point in R ^ n,		Exercise					
17	Hyperplane in R ^n, hypersurfaces.		Exclusion					
	T 4 1 D 2 11 T							
22	Textbooks, References and/or Other Materials:		1)Hacısalihoğlu, H.H., Analitik Geometri, Ankara Üniversitesi, Fen Fak. Matematik Böl.Ankara,1998.					
			2)Kaya, R., Analitik Geometri, Bilim Teknik Yayınevi, Eskişehir, 1996					
23 TERM	Assesment	NUMBE	WEIGHT					
TERMI	LEARNING ACTIVITIES	NUMBE R	WEIGHT					
Midterm Exam 1		1	40.00					
Quiz 0		0	0.00					
Home	work-project	0	0.00					
Final E	xam	1	60.00					
Total		2	100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contribution of Final Exam to Success Grade			60.00					
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Total		100.00
Measure Course	ement and Evaluation Techniques Used in the	
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	11	2.00	22.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	21.00	21.00
Others	0	0.00	0.00
Final Exams	1	21.00	21.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
ÖK7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LO: Learning Objectives PQ: Program Qualifications															
Contrib ution Level:					3 Medium			4 High			5 Very High					