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								
6	Semester:	4								
7	ECTS Credits Allocated:	4.00	4.00							
8	Theoretical (hour/week):	2.00	2.00							
9	Practice (hour/week):	2.00	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.	Kadri ARSLAN,, Prof.Dr. Basri ÇELİK							
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.							
		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							
		7	They learn curves in the space							
		8								
		9								
	T	10								
21	Course Content:									
	Course Content:									
Week	Practice Practice									

The line equation in space, parallel and perpendicular lines, angle between two lines, the distance from a Line to a point  The intersection point of two lines, the distance between two lines, plane equation, Plane equation(three points given)  Line and plane relation, the volume of a tetrahedron, Planes relative to each other situations, the situations of a line and a plane, symmetry.  Definition of surface and sphere surface.  Exercise  Coylinde surfacer  Cone surface  Quadric surfaces  Exercise  Number  Duration (hour)  Total Wilload (hour)  Theoretical  Practicals/Labs  In 2.00  Self studies and sphere pure process and plane, surface process and plane, surface process and plane, surfaces and sphere surface.  Exercise  Number  Duration (hour)  Total Wilload (hour)  Theoretical practicals/Labs  In 2.00  Self studies process and plane process and plane, surfaces and plane, surfaces and plane, surfaces and plane process and plane plane process and plan	1	Cartesian coordinates in space, Spa vectors, vector operations.	ce	Exercise								
distance between two lines, plane equation, Plane equation (three points given)  4 Line and plane relation; the volume of a tetrahedron, Planes relative to each other situations, the situations of a line and a plane, symmetry.  5 Definition of surface and sphere surface. Exercise  6 Cylinde surface	2	perpendicular lines, angle between t		Exercise								
tetrahedron, Planes relative to each other situations, the situations of a line and a plane, symmetry.  5 Definition of surface and sphere surface. Exercise  6 Cylinde surface	3	distance between two lines, plane ed		E	Exercise							
Cylinde surfacer	4	tetrahedron, Planes relative to each situations, the situations of a line and	other	E	Exercise							
7   Cone surface	5	Definition of surface and sphere surf	ace.	Ε	xercise							
Surfaces of Revolution	6	Cylinde surfacer		E	xercise							
Surfaces of Revolution	7	Cone surface		E	xercise							
Number	8	Surfaces of Revolution		E	xercise							
Number   Duration (hour)   Total William	9	Quadric surfaces		E	xercise							
Load (heat   Theoretical   14	10	Rotations in Space		E	xercise							
Practicals/Labs	Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Self stumpoland consideration	Theore	tical		Γ	14	2.00	28.00					
Homeworks	Practica	als/Labs			14	2.00	28.00					
Project	Self stu	pp land poedie ettion			11	2.00	22.00					
Field Studies 0 0.00 0.00  Midern a point in R ^n, Hypersurfaces 0 0.00 0.00  Others 0 0.00 0.00  Final Exams 1 21.00 21.00  Total Work Load 141.00  Total Work Load 141.00  Total Work 1818/30 hr Universitesi, Fen Fak. Matematik Bol. Ankara, 1998.  ECTS Credit of the Course 4.00  Eskişehir, 1996  23 Assesment  TERM LEARNING ACTIVITIES NUMBE R  Midterm Exam 1 40.00  Quiz 0 0.00  Home work-project 0 0.00  Final Exam 1 60.00	Homew	vorks			0	0.00	0.00					
Field Studies	Project	analytic geometry on the n-dimension	onal	E	xercise	0.00	0.00					
Others         0         0.00         0.00           Final Exams         1         21.00         21.00           Total Work Load         141.00         141.00           Total work 16/30/30 hr         Universitesi, Fen Fak. Matematik Bol. Ankara, 1998.           ECTS Credit of the Course         4.00           Eskişehir, 1996           23 Assesment         NUMBE R           Midterm Exam         1         40.00           Quiz         0         0.00           Home work-project         0         0.00           Final Exam         1         60.00						0.00	0.00					
Others         0         0.00         0.00           Final Exams         1         21.00         21.00           Total Work Load         141.00         141.00           Total work 16/30/530 hr         Universitesi, Fen Fak. Matematik Bol. Ankara, 1998.           ECTS Credit of the Course         4.00           Eskişehir, 1996           23 Assesment         NUMBE R           Midterm Exam         1         40.00           Quiz         0         0.00           Home work-project         0         0.00           Final Exam         1         60.00	Midtern	a point in R ^ n, Texams Lexams in B An, hypersurfaces		E	xercise	21.00	21.00					
Total Work Load		III WEISHIALES			0	0.00	0.00					
Total work load 30 hr  ECTS Credit of the Course 4.00  23 Assesment  TERM LEARNING ACTIVITIES NUMBE R  Midterm Exam 1 40.00  Quiz 0 0.00  Home work-project 0 0.00  Final Exam 1 60.00	Final E	kams			1	21.00	21.00					
ECTS Credit of the Course 4.00  23 Assesment  TERM LEARNING ACTIVITIES NUMBE R  Midterm Exam 1 40.00  Quiz 0 0.00  Home work-project 0 0.00  Final Exam 1 60.00	Total W	/ork Load										
Eskişehir, 1996         23       Assesment         TERM LEARNING ACTIVITIES       NUMBE R       WEIGHT         Midterm Exam       1       40.00         Quiz       0       0.00         Home work-project       0       0.00         Final Exam       1       60.00	Total w	Materals: 0 hr		U	niversitesi, Fen Fak. I	Vatematik Bol.Ankai	a, 1998.					
23 Assesment           TERM LEARNING ACTIVITIES         NUMBE R         WEIGHT           Midterm Exam         1         40.00           Quiz         0         0.00           Home work-project         0         0.00           Final Exam         1         60.00	ECTS (	Credit of the Course					4.00					
TERM LEARNING ACTIVITIES         NUMBE R         WEIGHT WEIGHT           Midterm Exam         1         40.00           Quiz         0         0.00           Home work-project         0         0.00           Final Exam         1         60.00				Eskişehir, 1996								
TERM LEARNING ACTIVITIES         NUMBE R         WEIGHT WEIGHT           Midterm Exam         1         40.00           Quiz         0         0.00           Home work-project         0         0.00           Final Exam         1         60.00	23	Assesment										
Quiz         0         0.00           Home work-project         0         0.00           Final Exam         1         60.00				WEIGHT								
Home work-project         0         0.00           Final Exam         1         60.00	Midtern	n Exam	1	40.00								
Final Exam 1 60.00	Quiz		0	0.00								
	Home v	vork-project	0	0.00								
Total 2 100.00	Final E	xam	1	60.00								
	Total		2	100.00								
Contribution of Term (Year) Learning Activities to Success Grade 40.00			es to	40.00								
Contribution of Final Exam to Success Grade 60.00	Contrib	ution of Final Exam to Success Grad	e	60	60.00							

Total		100.00					
Measur Course	rement and Evaluation Techniques Used in the	The system of relative evaluation is applied					
24	ECTS / WORK LOAD TABLE						

24 EC	C13/ WORK LOAD TABLE															
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:	on			2 low			3 Medium			4 High			5 Very High			