GEOMETRY

1	Course Title:	GEOMETRY	
2	Course Code:	MAT1004	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. MENEKŞE SEDEN TAPAN BROUTIN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Y.Doç.Dr. Menekşe Seden TAPAN BROUTIN tapan@uludag.edu.tr 0 224 2942162 Uludağ Üniversitesi Eğitim Fakültesi, A Blok, İlköğretim Bölümü, 16059 Nilüfer,Bursa	
17	Website:		
18	Objective of the Course:	Studying Euclidean geometry thorough all its axiomatic structure and conceptualizing the properties of plane figures.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Explains the historical development of Euclidean and non-Euclidean geometries
		2	Describes the axiomatic structure of geometry
		3	Explains concepts of defined and undefined terms, axiom and theorem
		4	Read the geometry book written by Ataturk and understand its content and its importance
		5	Formulates basic axioms of Euclidean geometry and use them in proofs
		6	Comments geometric concepts with a deductive point of view
		7	Formulates sufficient and complete definitions for the concepts of triangle, rectangle and polygon and make modulation between these definitions and geometric properties
		8	Realises basic geometric drawings with ruler and compass and make detailed explanations for these drawings
		9	Defines the concepts of the circle and disk, proove theorems about the angle and length.
		10	Formulates properties of objects in space, areas and volumes of solids
21	Course Content:		
	Course Content:		

Week	Theoretical	Practice
1	Euclidean and non-Euclidean geometries' historical development. Axiomatic structure of geometry, concepts of defined and undefined terms, axioms and theorems	
2	Review of the geometry book written by Atatürk. Combination axioms and relation and theorems and proofs related to the subject.	
3	Order axioms and relation and theorems and proofs related to the subject. Cantor's continuity axiom.	
4	Congruence axioms and relations for segments. Construction of segments, equilateral triangles using only compass and unitless ruler	
5	Concept of angle. Congruence axioms and relations for angles; theorems and proofs related to the subject. Construction of angles using only compass and unitless ruler.	
6	Concept of triangle. Congruence axioms and relations for triangles; theorems and proofs related to the subject. Construction of triangles using only compass and unitless ruler.	
7	Matching and equality in triangles. SAS definition, ASA, SSS, SAA, SSAA* theorems	
8	ruler and compass. Triangle inequality. SAS inequality and inclined line theorems and their	
9	Circle-line relations in the plane. Positions of two circles to each other and their drawings	
10	Parallels axioms and relation and theorems	
11	Drawings of paralll lines on a plane	
12	related with this axiom.Hilbert's parallelism	
13		

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	4	12.00	48.00
Projects	2	17.00	34.00
Field Studies	0	0.00	0.00
Midterm exams	1	25.00	25.00
Others	0	0.00	0.00
Final Exam	1	35.00	35.00
Total Work Load			240.00
Total work load/ 30 hr			8.00
ECTS Credit of the Course			4.00

22	Textbooks, References and/or Other Materials:
23	Assesment

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	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
Total	100.00
Measurement and Evaluation Techniques Used in the Course	

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	4	0	3	0	5	1	2	0	0	0	0	0	0	0	0	0
ÖK2	3	0	3	0	5	0	4	0	0	0	0	0	0	0	0	0
ÖK3	3	0	2	0	5	0	5	0	0	0	0	0	0	0	0	0
ÖK4	3	0	2	0	1	0	2	1	0	0	0	0	0	0	0	0
ÖK5	3	0	2	0	5	0	5	0	0	0	0	0	0	0	0	0
ÖK6	3	0	3	0	5	0	5	0	0	0	0	0	0	0	0	0
ÖK7	3	0	3	0	5	0	5	0	0	0	0	0	0	0	0	0
ÖK8	3	0	4	0	4	0	4	0	0	3	0	0	0	0	0	0
ÖK9	3	0	2	0	5	0	5	0	0	0	0	0	0	0	0	0
ÖK10	2	0	1	0	4	0	4	2	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**