

# COORDINAT GEOMETRY I

1	Course Title:	COORDINAT GEOMETRY I	
2	Course Code:	MAT5323	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
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. Atilla Akpınar	
15	Course Lecturers:	Prof. Dr. Süleyman ÇİFTÇİ - Doç. Dr. Basri ÇELİK	
16	Contact information of the Course Coordinator:	E-posta: aakpinar@uludag.edu.tr Telefon: +90 224 2941774 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE	
17	Website:		
18	Objective of the Course:	To gain the ability of solution by converting a given problem to an algebraic problem and so to improve the ability of mathematical thinking	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Can algebraically state the concepts of points and lines in the plane.
		2	Can use determinants of order two and third.
		3	Can algebraically state the concepts of lines and planes in the space
		4	Can use transformations of coordinates
		5	Can establish a relation between geometric properties and algebraic properties
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	

1	An equation of first degree in two unknowns, cartesian coordinates in the plane, distance between two points	
2	An equation of a line, parametric equation of a line	
3	Slope of a line, Two equations of first degree in two unknowns, determinants of the second order	
4	The set of lines through a point, axes	
5	Circle, line coordinates	
6	Rectangular coordinates in space	
7	Distance between two points	
8	An equation of plane, two homogeneous equations of first degree in three unknowns	
9	Determinants of the third order	
10	Three homogeneous equations of first degree in three unknowns	
11	Equations of planes determined by certain conditions	
Activites		
Theoretical		14
Practicals/Labs		0
Self study and preperation		14
Homeworks		0
Projects		0
Field Studies		0
Midterm Exams:		0
Others		14
Final Exams		14
Total Work Load		
Total work load/ 30 hr		
ECTS Credit of the Course		
23		Assesment
TERM LEARNING ACTIVITIES		NUMBER
Midterm Exam		0
Quiz		0
Home work-project		0
Final Exam		1
Total		1
Contribution of Term (Year) Learning Activities to Success Grade		0.00

Contribution of Final Exam to Success Grade										100.00							
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	4	1	0	1	2	2	1	3	2	0	0	0	0	0	0	
ÖK2	3	4	1	0	1	1	1	1	2	1	0	0	0	0	0	0	
ÖK3	3	4	2	0	2	1	1	2	2	1	0	0	0	0	0	0	
ÖK4	5	5	2	0	2	1	1	2	2	1	0	0	0	0	0	0	
ÖK5	4	4	1	0	2	2	2	1	3	2	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				