

## T.C.



## ESKİŞEHİR OSMANGAZİ UNİVERSİTY FACULTY OF SCIENCES

## MATHEMATICS AND COMPUTER SCIENCES DEPARTMENT

## **COURSE INFORMATION FORM**

Course Name	Course Code
Linear Geometry II	

Semester	Number of Cours	se Hours per Week	Credit	ECTS
Semester	Theory	Practice	Credit	ECIS
8	2	2		6

Course Category (Credit)					
Basic Sciences Engineering Sciences Design General Education Social					
X					

Course Language	Course Level	Course Type
Turkish	Undergraduate	Elective

Prerequisite(s) if any	
Objectives of the Course	The main of the course is to introduce the concepts and techniques involved in the basic topics listed in this lecture and to develope skills in applying those concepts and techniques to the solution of problems
Short Course Content	Special subjects in linear geometry, plane geometry, space geometry, linear spaces and polar spaces, some papers belong to linear geometry

	Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1	Gain sufficient knowledge of linear geometry subject, related with science and own branch.	1,2,3	1,2,5	A,D
2	An ability to apply theoretical and practical knowledge on solving and modeling of problems.	1,2,4	1,2,5	A,D
3	Develops ability to analyze and solve problems encountered	3,4,5,9	2,10,12	A,D
4	Analytical thinking skills develop and the ability to make individual and independent decisions develops.	3,4,5,9	10,11	A,D
5	The ability to analyze and interpret data, apply interpretation to other data, and apply this information in a computer environment develops.	13	10,11,13	A,D
6				
7				
8				

<sup>\*</sup>Teaching Methods 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Induvidual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

<sup>\*\*</sup>Measuring Methods A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

Main Textbook	<ul> <li>1-Kaya, R. (2005) Projektif Geometri, Osmangazi üniversitesi yayınları, yayın no:111,</li> <li>Eskişehir.</li> <li>2- Batten, L.M. (1986). Combinatorics of finite geometries, Cambridge university press.</li> </ul>
Supporting References	
Necessary Course Material	

	Course Schedule		
1	Special subjects in linear geometry		
2	Special subjects in linear geometry		
3	Special subjects in linear geometry		
4	Special subjects in linear geometry		
5	Special subjects in linear geometry		
6	Special subjects in plane geometry		
7	Special subjects in plane geometry		
8	Mid-Term Exam		
9	Special subjects in linear spaces and polar spaces		
10	Special subjects in linear spaces and polar spaces		
11	Special subjects in linear spaces and polar spaces		
12	Special subjects in some papers belong to linear geometry		
13	Special subjects in some papers belong to linear geometry		
14	Some papers belong to linear geometry		
15	Some papers belong to linear geometry		
16,17	Final Exam		

Calculation of Course Workload				
Activities	Number	Time (Hour)	Total Workload (Hour)	
Course Time (number of course hours per week)	14	4	56	
Classroom Studying Time (review, reinforcing, prestudy,)	14	2	28	
Homework				
Quiz Exam				
Studying for Quiz Exam				
Oral exam				
Studying for Oral Exam				
Report (Preparation and presentation time included)				
Project (Preparation and presentation time included)	2	25	50	
Presentation (Preparation time included)				
Mid-Term Exam				
Studying for Mid-Term Exam				
Final Exam	1	2	2	
Studying for Final Exam	1	45	45	
	Т	otal workload	181	
	Total	workload / 30	181/30	
	Course	ECTS Credit	6	

Evaluation			
Activity Type	%		
Project Observation	40		
Bir öğe seçin.			
Bir öğe seçin.			
Final Exam	60		
Total	100		

	RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PRO OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)	GRAM
NO	PROGRAM OUTCOME	Contribution
1	The ability to apply knowledges of Mathematics and Computer Sciences,	5
2	To have sufficient theoretical and practical knowledge of Mathematics at international level,	5
3	The ability of describing, modelling and solving of mathematical problems at Mathematics and related subjects,	5
4	The skill to solve and design a problem process in accordance with a defined target,	5
5	Skills to analyze data, interpret and apply to other datum and using these data on computer,	4
6	The skill to use the modern techniques and computational tools needed for mathematical applications,	3
7	The skill to make team work within the discipline and interdisciplinary,	4
8	The ability to improve oneself by following the developments on other modern, scientific and technological subjects as well as Mathematics and Computer Sciences,	2
9	The skill to communicate orally and in written way, in a clear and concise manner by having individual work skills and ability to independently decide and analytical thinking,	4
10	The skill to have professional and ethical responsibility,	4
11	The skill to have consciousness for quality issues and scientific research,	2
12	The skill to be sensitive to environmental issues related with problems and development of living area and consistent in the social relations,	1
13	Ability to solve problems in the working life faced to find an appropriate algoritms via mathematical modeling and to write computer programs,	4
14	The skill to developed design of software systems at different complex levels,	1
15	The credence of necessity of life-long learning and ability to apply the formation long-life learning.	2

LECTUTER(S)					
Prepared by	Prof. Dr. İbrahim Günaltılı				
Signature(s)					

**Date:**06.06.2024