ESOGÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM

SEMESTER	Fall

COURSE CODE	821617023	**COURSE NAME**	Models of Real Projective Plane I

SEMESTER	**WEEKLY COURSE PERIOD**			**COURSE OF**			
	Theory	**Practice**	**Labratory**	**Credit**	**ECTS**	**TYPE**	**LANGUAGE**
7	2	2	0	2	5	COMPULSORY (x) ELECTIVE ( )	Turkish

COURSE CATAGORY				
Mathematics	**Computer**			**Social Science**
x				

ASSESSMENT CRITERIA			
	Evaluation Type	**Quantity**	**%**
MID-TERM	1st Mid-Term	1	40
	2nd Mid-Term		
	Quiz		
	Homework		
	Project		
	Report		
	Others (………)		
FINAL EXAM		1	60

PREREQUIEITE(S)	None.
COURSE DESCRIPTION	Projective plane, models of Real projective plane
COURSE OBJECTIVES	To define real projective plane geometry
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	To obtain information about real projective plane geometry
COURSE OUTCOMES	
TEXTBOOK	Models of the real projective plane, François Apery
OTHER REFERENCES	None.
TOOLS AND EQUIPMENTS REQUIRED	None.

COURSE SYLLABUS	
WEEK	**TOPICS**
1	Some representations of he real projective plane before 1900
2	Closed surfaces
3	Examples of Closed surfaces
4	Examples of Closed surfaces
5	A graph of a Closed surfaces
6	Homeomorphic Closed surfaces
7	Problem solving
8	Midterm
9	2-Complex structure
10	Möbius strip
11	Euler characteristic
12	Problem solving
13	Topologically embedding in Closed surfaces
14	Closed orientable surface
15	Problem solving
16-17	Final

NO	**PROGRAM OUTCOMES**	**3**	**2**	**1**
1	The ability to apply knowledges of Mathematics and Computer Sciences,	x		
2	To have sufficient theoretical and practical knowledge of Mathematics at international level,	x		
3	The ability of describing, modelling and solving of mathematical problems at Mathematics and related subjects,	x		
4	The skill to solve and design a problem process in accordance with a defined target,	x		
5	Skills to analyze data, interpret and apply to other datum and using these data on computer,	x		
6	The skill to use the modern techniques and computational tools needed for mathematical applications,		x	
7	The skill to make team work within the discipline and interdisciplinary,	x		
8	The ability to improve oneself by following the developments on other modern, scientific and technological subjects as well as Mathematics and Computer Sciences,	x		
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,	x		
10	The skill to have professional and ethical responsibility,	x		
11	The skill to have consciousness for quality issues and scientific research,	x		
12	The skill to be sensitive to environmental issues related with problems and development of living area and consistent in the social relations,		x	
13	Ability to solve problems in the working life faced to find an appropriate algoritms via mathematical modeling and to write computer programs,		x	
14	The skill to developed design of software systems at different complex levels,		x	
15	The credence of necessity of life-long learning and ability to apply the formation long-life learning.		x	
1:None. **2**:Partially contribution. **3**: Completely contribution.				

Instructor(s): Prof. Dr. Ziya AKÇA

Signature: **Date:**