ESOGÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM

	SEMESTER	Spring

COURSE CODE	821618018	COURSE NAME	Models of Real Projective Plane II

SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
8	2	2	0	3	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	Boy surfaces, Immersions in the 3-dimensional sphere
COURSE OBJECTIVES	To define real projective spaces
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	To obtain information about real projective spaces
COURSE OUTCOMES	
TEXTBOOK	Models of the real projective plane, François Apery
OTHER REFERENCES	None.
TOOLS AND EQUIPMENTS REQUIRED	None.

COURSE SYLLABUS

WEEK	TOPICS
1	The real projective plane
2	Steiner surfaces,
3	Examples of Steiner surfaces,
4	Boy surfaces
5	Parametrization of the Boy surfaces
6	Immersed surfaces
7	Problem solving
8	Midterm
9	Embedded surfaces
10	Representation of Klein surface
11	Representation of Walther von Dyck surface
12	Problem solving
13	Representation of Hermann Grassmann surface
14	Representation of Curt Reinhardt 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:**