

ESOGÜ Mathematics and Computer Sciences Department COURSE INFORMATION FORM

SEMESTER Fall

COURSE CODE		821617021				COURSE NAME	с Г	Copological Groups I					
SEMESTER	W	WEEKLY COURSE PERI				OD COURSE OF							
	Theory		Practice Labra		atory	Credit	ECTS	ТҮРЕ	LANGUAGE				
7	2		2	2 0		3	5	COMPULSORY (x) ELECTIVE ()	Turkish				
COURSE CATAGORY													
Mathematics Computer			Social Science										
Х													
ASSESSMENT CRITERIA													
				Evaluation Type			Quantity	%					
				1st Mid-Term			1	40					
				2nd M	id-Term								
	MID)-TE	RM		Quiz								
					Home								
				Projec									
					Report								
					Others	()		1	60				
FINAL EXAM							1	00					
PREREQUIEITE(S)				None.									
COURSE DESCRIPTION				Continuity, Homeomorphisms, Seperatable Spaces.									
COURSE OBJECTIVES				To introduce basic concepts of Topological Groups.									
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION				Preparing students for more advanced works in Topology.									
COURSE OUTCOMES				To obtain background for topological groups.									
ТЕХТВООК				Bourbaki, Elements of Mathematics (Topology).									
OTHER REFERENCES				Jhon F. Begdund, Analysis on semigroups.									
TOOLS AND EQUIPMENTS REQUIRED				None.									

COURSE SYLLABUS								
WEEK	TOPICS							
1	Temel Kavramlar							
2	Open sets in Topological groups							
3	Open sets in Topological groups							
4	Bases							
5	Bases							
6	Limit points							
7	Subgroups							
8	Midtermexam							
9	Compactness in topological groups							
10	Continuous functions							
11	Open functions							
12	Closed functions							
13	Homeomorfic topological groups							
14	Homeomorfic topological groups							
15	Seperation axioms							
16-17	Final Exam							

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,		Х			
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.					
1:Non	1:None. 2:Partially contribution. 3: Completely contribution.					

Instructor(s): Prof. Dr. Mahmut KOÇAK

Signature:

Date: