ESOGÜ Mathematics and Computer Sciences Department COURSE INFORMATION FORM

SEMESTER	Fall

COURSE CODE	821611003	COURSE NAME	Abstract Mathematics
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SEMESTER WEEKLY COURSE PERIO		OD COURSE OF						
	Theory	Practice	Practice Labra		Credit	ECTS	ТҮРЕ	LANGUAGE
1	3	0	0)	3	5	COMPULSORY (x) ELECTIVE ()	Turkish
		•		COUR	SE CATA	GORY		'
Mathematics Computer							Social Science	
X				aaraa	AENTE OF			
			A		MENT CF aluation T		Quantity	%
				1st Mid		урс	Quantity 1	40
MID-TERM				2nd Mi			1	
				Quiz				
			Homew	vork				
			Project					
			Report					
			Others ()					
FINAL EXAM			1				60	
PREREQUIEITE(S)			None					
COURSE DESCRIPTION			Logic,					
COURSE OBJECTIVES			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					
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION			Gain the ability of problem solution.					
COURSE OUTCOMES			Having sufficient knowledge about Abstract Mathematics ;the ability of modelling and solving the problems by using the theoretical and applied information					
ТЕХТВООК			Soyut Matematik, Ahmet Arıkan, Sait Halıcıoğlu,					
OTHER REFERENCES			Soyut Matematik, Prof. Dr.Şükrü Olgun					
TOOLS AND EQUIPMENTS REQUIRED								

COURSE SYLLABUS					
WEEK	TOPICS				
1	Logic				
2	Logic operations				
3	Proof methods				
4	Proof methods				
5	Sets				
6	Operations on sets				
7	Problem solving				
8	Midterm				
9	Relations				
10	Equivalence relations				
11	Equivalence class				
12	Functions				
13	Functions				
14	Functions				
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:Non	e. 2:Partially contribution. 3: Completely contribution.			

Instructor(s): Doç. Dr. Ummahan Ege Arslan

Signature:	Date: