ADVANCED LOGIC I

1	Course Title:	ADVANCED LOGIC I
2	Course Code:	FEL5123
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. Aytekin Özel
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	
17	Website:	
18	Objective of the Course:	
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	learn set theory
	2	learn relation between set theory and logic
	3	learn briefly history of set theory
	4	learn briefly philosophical problems in set theory
	5	learn axioms in set theory
	6	learn definition in set theory
	7	prove theorems
	8	Use tree method in proof of theorems
	9	learn method of reductio ad absurdum
	10	learn basics of mathematics
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	What is set theory?	
2	set theory and logic	
3	History of set theory	
4	Axioms and definitions	
5	proof of theorems	
6	proof of theorems	
7	proof of theorems	
8	proof of theorems	

9	proof of theorems	
10	proof of theorems	
11	proof of theorems	
12	proof of theorems	
13	proof of theorems	
14	proof of theorems	

22	Textbooks, References and/or Other Materials:	Edward John Lemmon, Introduction to Axiomatic Set Theory, Routledge & Kegan Paul PLC, 1969.
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade	0.00	
Contribution of Final Exam to Success Grade	100.00	
Total	100.00	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation			
Homeworks	0		
Projects			
Field Studies			
Midterm exams	0		
Others			
Final Exams	1		
Total Work Load			
Total work load/ 30 hr			
ECTS Credit of the Course			3.00

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	4	0	4	0	0	0	0	0	4	0	0	0	0	0	0
ÖK2	0	4	0	4	0	0	0	0	0	4	0	0	0	0	0	0
ÖK3	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High