

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:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. FİKRET OSMAN	
15	Course Lecturers:	Yok.	
16	Contact information of the Course Coordinator:	Doç. Dr. Fikret OSMAN fikretosman@uludag.edu.tr; Uludağ Üniversitesi Felsefe Bölümü Fen-Edebiyat Fakültesi, 16059 Görükle, Bursa - Türkiye. Tel: +90 224 2755096	
17	Website:		
18	Objective of the Course:	To teach set theory, identity logic, free logic and modal logic.	
19	Contribution of the Course to Professional Development:	The student does advanced logic work.	
20	Learning Outcomes:		
		1	Learn singular formulas and general formulas.
		2	Learn semantics.
		3	Learn symbolization.
		4	Learn law of identity logic.
		5	Learn law of free logic.
		6	Learn modalities of possibility and necessity.
		7	Learn law of modal logic.
		8	Learn the method of derivation.
		9	Learn Russellian semantics
		10	Lean Set theory
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Syntax in identity logic.		
2	Semantics in identity logic.		
3	Symbolizations		
4	Law of identity logic.		
5	Law of identity logic.		

6	Free logic.	
7	Free logic.	
8	Symbolizations	
9	Modalities of Necessity and Possibilities.	
10	Modal logic.	
11	Modal logic.	
12	Modal logic.	
13	Set Theory	
14	Set Theory	

22	Textbooks, References and/or Other Materials:	Teo Grünberg, Modern Logic, Metu Press, Ankara 2002. Teo Grünberg, Sembolik Mantık El Kitabı, c. 2, Ankara 2000. J. Lemmon, Introduction to Axiomatic Set Theory.
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23	Assesment	
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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

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Total	100.00		
Practicals/Labs	0	0.00	0.00
Self-study and preparation	14	5.00	70.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	22.00	22.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

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	5	0	4	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK2	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	4	0	0	0	0	0	0	5	0	0	0	0	0

ÖK5	0	0	0	0	0	0	4	0	0	0	0	0	0	5	0	0
ÖK6	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
ÖK7	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
ÖK8	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK9	0	5	0	3	0	0	0	0	0	0	0	0	0	0	4	0
ÖK10	4	0	0	0	0	0	0	0	0	0	0	5	4	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			