1.	. Course title Mathematical Mat			itical Logic				
2.	Course code		KK-I-03					
3.	Study program		Coding and C	ryptography				
4.	Unit offering the course		FCSE					
5.	Undergraduate/master/PhD		Master					
6.	Year/semester 1(2)/winter/elective 7. ECTS: 6							
8.	Teacher(s) Prof. Smile Markovski, Assis. Prof. Vesna Dir							
9.	Course prerequisites		None					
10.	Goals (competences): Propositional and predicate logic and their applications in computer sciences.							
11.	Course content: Propositional logic: Boolean operations and interpretations, propositional formulas, logical equivalences and replacements, semantic tables, deductive proofs, resolutions, Hilbert system. Predicate calculus: relations, predicate formulas, interpretations, logical equivalences and replacements, semantic tables, deductive proofs, functions and terms. Logical programing, principal resolution, replacement, unification, temporal logic							
12.	Teaching methods: Lectures supported by slide presentations, interactive lectures, trainings (using lab equipment and software packages), team work, case studies, invited guests and lectures, individual practical assignments presentations, seminar paper, e-learning (forums, consultations).							
13.	Total available time		6 ECTS x 30 hours = 180 hours					
14.	Distribution of the available time	30 + 30 = 180 hours						
15.	Teaching activities		Lectures	45 hours				
			Training (labs, problem solving), seminar and team45work45					
16.		16.1.	Project work	30 hours				
	Other activities	16.2.	Self study	30 hours				
		16.3.	Home work	30 hours				
	Grading							
	17.1. Tests	50 points						
17.	17.2. Seminar work/project (written	30 points						
	17.3. Active participation			20 points				
18.	Grading criteria		to 50 points 5 (fiv					
			from 50 to 59 points	$\overline{6}$ (six) (E)				
			from 60 to 69 points 7 (seven) (
			from 70 to 79 points 8 (eight) (
			from 80 to 89 points	9 (nine) (B)				

	fre		from 90 to 100 points	from 90 to 100 points				
19.	Final exam prerequisites		requisites	Successfully completed activities 15.1 and 15.2				
20.	Course language		ge	Macedonian and English				
21.	Quality assurance methods			Internal evaluation and student questionnaires				
	Literature							
22.		Compulsory						
	22.1.	No.	Authors	Title	Publisher	Year		
		1.	M. Ben-ari	Mathematical logic for computer science	Prentice Hall	1992		
		Additional						
	22.2.	No.	Authors	Title	Publisher	Year		