1.	Course title		Advanced Algebraic Structures				
2.	Course code		KK-I-02				
3.	Study program		Coding and Cryptography				
4.	Unit offering the course		FCSE				
5.	Undergraduate/master/PhD		Master				
6.	Year/semester 1(2)/winter/elective	7.	7. ECTS: <b>6</b>				
8.	Teacher(s)		Prof. Smile Markovski	Markovski, Prof. Zaneta Popeska			
9.	Course prerequisites		No	ne			
10.	Goals (competences): Introduction to algebraic structures r	s (competences): duction to algebraic structures needed for the other courses.					
11.	<ul><li>algebras with several opera</li><li>relational algebras</li></ul>	s: semigroups, groups and quasigroups with several operations: rings, fields, Boolean algebra l algebras considered the finite algebraic structures that are important for applications.					
12.	Teaching methods: Lectures supported by slide presenta software packages), team work, case assignments presentations, seminar p	studie	s, invited guests and lectur	es, individual practical			
13.	Total available time						
14.	Distribution of the available time	of the available time $45 + 45 + 30 + 30 + 30 = 180$ hours					
	Teaching activities		Lectures	45 hours			
15.			Training (labs, problem 2. solving), seminar and team work				
		16.1.	Project work	30 hours			
16.	Other activities		Self study	30 hours			
			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					
	Grading criteria		to 50 points 5 (five) (F)				
18.			from 50 to 59 points	( ) ( )			
			from 60 to 69 points	`			
			from 70 to 79 points	` ` ` ` ` `			
			from 80 to 89 points	9 (nine) (B			
			from 90 to 100 points	10 (ten) (A)			

19.	Final e	Final exam prerequisites		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.	G. Cupona	Lectures of algebra	UKIM Skopje		
		2.	A. Clark	Elements of Abstract algebra	Dover Publ. Inc., New York		
		Additio	nal				
	22.2.	No.	Authors	Title	Publisher	Year	