Program	Level			Third cycle		
	Name of the program			SEE Doctoral Studies in Mathematical Science		
COURSE						
Course title	Cayley graphs of semigroups					
Course code	Semester	Course status	EC	CTS	Contact (L+AE+LE	hours E)
PMAT 695	Π	Elective course	10		30	
Lecturer	Prof. dr. Emil Ilić-Georgijević					
Course Goals The goal is to introduce students to the basics of structural semigroup theory and its application in algebraic graph theory with an emphasis on Cayley's graphs, and to refer them to active research topics.						
COURSE CONTENT						
 Structure of semigroups Cayley graph semigroup Characterization Cayley graph different classes of semigroups Transitive Cayley graphs 						
LITERATURE		GRADING				
 A. H. Clifford, G. B. Preston, The Alg Semigroups, Amer. Math. Soc., Provid A. V. Kelarev, Graph Algebras and Au 2003. U. Knauer, K. Knauer, Algebraic Grap 		ebraic Theory of ence, R.I, 1961. tomata, Marcel Dekker, h Theory: Morphisms,	Criterion		Maximum points	Minimum points
			1.	Assignments		
Monoids and Mat	trices, De Gruyter, 20	19.	2.	Projects	40	20
			3.	Final exam	60	35
			Total		100	55