

Program	Level		Third cycle			
	Name of the program		SEE Doctoral Studies in Mathematical Science			
COURSE						
Course title	Noncommucative rings					
Course code	Semester	Course status	ECTS	Contact hours (L+AE+LE)		
PMAT 680	I	Elective course	10	30		
Lecturer	prof. dr Emil Ilić-Georgijević					
Course Goals	The goal is to meet students with the basis of the theory of noncommucative rings (asociative) and put them in active research areas, as well as the theorz of radicals, the theory of the graduated ring and other topics, in the independent interest of candidates.					
COURSE CONTENT						
<ul style="list-style-type: none"> - Examples of noncommucative rings - Jacobson's radical - Wedderburn—Artin's theorem - Prime and primitive rings - Basisses of the theory of graduated structures 						
LITERATURE			GRADING			
[1] T.-Y. Lam, A First Course in Noncommutative Rings, Springer, 1991. [2] N. Herstein, Noncommutative rings, Carus Math. Monographs 15, 1968. [3] A. V. Kelarev, Ring Constructions and Applications, Series in Algebra 9, World Scientific, 2002. [4] C. Nastasescu, F. Van Oystaeyen, Methods of Graded Rings, Lecture Notes in Mathematics 1836, Springer, 2004. [5] B. J. Gardner, R. Wiegandt, Radical Theory of Rings, Pure and Applied Mathematics 261, Marcel Dekker, 2004.			Criterion		Maximum points	Minimum points
			1.	Assigments		
			2.	Projects	40	20
			3.	Final exam	60	35
			Total		100	55