_	Level	First cycle	cvcle					
Program	Name of the p	2	ematics Education, Pure Mathematics					
COURSE								
Course title Selected Topics in Geometry								
Course code	Semester	Course status		ECTS		Contact L+AE+LE)	hours	
PMAT 395	VI	Mandatory/ E	ective course	5	2	2+2+0		
Lecturer								
Course Goals	The course aims to deepen the understanding of surface measurement in a plane and volume in space and the fundamental relationships of geometric objects and bodies in three-dimensional space.							
Learning Outcomes	After completing the course, students will understand the concept of area in a plane and the concept of volume in space. They will be able to understand some combinatorial properties of polytopes. Students will be able to solve advanced tasks in geometry and tasks for mathematical competitions that concern the calculation of areas and volumes.							
COURSE CONTENT								
 Formulas for the Basic figures in th Dihedrals and tril Basic properties of Round figures in Formulas for calc 	nree-dimensiona nedrals of polyhedra and three-dimension	their combinato al space ne of different b	rial properties odies in space					
LITERATURE								
 [1] Dominik Palman, Planimetrija, Element, 1999 [2] Dominik Palman, Stereometrija, Element, 2005 [3] V.V. Prasolov, V. M. Tikhomirov, Geometry, AMS, 2001 [4] V. Stojanovic, Stazama sampiona, Matematiskop, 1999 STUDENT WORKLOAD (hours in a semester) 								
Lectures	30 Exerc	ises 30	Individual	l work	65	Total	125	
GRADING				REMARKS				
Criterion Maximum points		points	um					
Midterm exams	50	27,5						
Final exam	50	27,5						
Total	100	55						