

Level: bachelor				
Course title: Teaching of Mathematics 1 (M4-23)				
Status: obligatory				
ECTS: 5				
Requirements: none				
Learning objectives Obtaining knowledge and skills necessary for teaching mathematics.				
Learning outcomes Students will learn to apply contemporary methodical principles and modern educational techniques and technology for preparation and teaching mathematics.				
Syllabus <i>Theoretical instruction</i> Mathematics – the scientific discipline and subject. Methods of teaching mathematics. Psychological, pedagogical and logical foundations of mathematics. Forms of thinking in the teaching of mathematics. Mathematical concepts and methodologies of their introduction into the teaching of mathematics. Induction and deduction. Analogy. Teaching methods in teaching mathematics. The role and place of assignments in mathematics, their choice depending on the goals of teaching and methods of solving tasks. Catalogue of heuristic rules. The method of teaching programming. Learning outcomes, differentiation and individualization. The types of classes in mathematics. Forms of work. Monitoring and evaluation of student performance. Planning in teaching mathematics. Motivating and encouraging the learning of mathematics. <i>Practical instruction</i> Written preparation of classes, demonstration lessons and students' lecturing in elementary and secondary schools, analysis of teaching and instruction.				
Weekly teaching load				Other: 0
Lectures: 2	Exercises: 2	Other forms of teaching: 0	Student research: 0	