Level: bachelor				
Course title: Foundations of Geometry 2 (M4-13)				
Status: obligatory				
ECTS: 5				
Requirements: none				
Learning objectives Axioms of continuity and consequences. Introduction and main concepts of Bolyai-Lobachevskian geometry.				
Learning outcomes Students are expected to be able to apply various techniques in proving typical theorems of Bolyai-Lobachevskian geometry.				
Syllabus *Theoretical instruction* Axioms of continuity. The sum of angles of a triangle. A line and a cycle. Two cycles. Main concepts and techniques in Bolyai-Lobachevskian plane. Orthogonal trajectories. Poincare model. *Practical instruction* Applications of theoretical results in proving other theorems in Bolyai-Lobachevskian plane and Poincare model.				
Weekly teaching load				Other: 0
Lectures: 2	Exercises: 2	Other forms of teaching: 0	Student research: 0	