

Level: bachelor				
Course title: Complex Analysis (M4-12)				
Status: obligatory				
ECTS: 7				
Requirements: passed exam in course Analysis 1 (M4-05)				
Learning objectives Introduction to the basic theory of complex functions and some applications in order to get acquainted with a number of methods and techniques applicable to other parts of mathematics and engineering.				
Learning outcomes At the end of the course, a successful student will be able to apply learned methods and techniques to the problems that arise in the practice, and to understand the basic theory of complex functions.				
Syllabus • Analytical functions, power series, conformal mapping; • Complex integration, singularities, residues; • Series of analytic functions, Taylor series, Laurent series; • Application of residues to the calculation of integrals; • Fourier and Laplace transforms.				
Weekly teaching load				Other: 0
Lectures: 3	Exercises: 3	Other forms of teaching: 0	Student research: 0	