

Title Mathematics	Code 1010324211010340326
Field Electrical Engineering	Year / Semester 1 / 1
Specialty -	Course core
Hours Lectures: 3 Classes: 26 Laboratory: - Projects / seminars: -	Number of credits 5
	Language polish

Lecturer:

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Faculty:

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Status of the course in the study program:

Obligatory course of the study programs for the branch ?Electrotechnics?.

Assumptions and objectives of the course:

Knowledge of theory of complex numbers, matrices, determinants, systems of linear equations and differential and integral calculus of functions of one variable.

Contents of the course (course description):

Complex numbers and algebraic equations. Matrices, determinants of matrices, systems of linear equations. Differential calculus of functions of one variable: numerical sequences, limits and continuity of functions, derivatives and differentials, Taylors formula, montonic functions, local and absolute extrema, convexity, asymptotes.
Integral calculus of functions of one variable:indefinite integral, integration methods.

Introductory courses and the required pre-knowledge:

Elementary functions, basic knowledges from algebra and trygonometry.

Courses form and teaching methods:

Lectures and classes.

Form and terms of complete the course - requirements and assessment methods:

Written tests, examination.

Basic Bibliography:

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Additional Bibliography:

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