Title	Code
Mathematics	**1010324231010340336**
Field: **Electrotechnics**	Year / Semester: **2 / 3**
Specialty: **-**	Course: **core**
Hours: Lectures: **3** Classes: **18** 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:

Basic methods of solving of differential equations. Basic theory and applications of complex functions and Fourier and Laplace transformations.

Contents of the course (course description):

Differential equations ? methods of solving. Sequences and series of complex numbers. Complex function of real variable. Complex function of complex variable ? definition, properties, holomorphic function, singular points, residue. Fourier and Laplace transformations.

Introductory courses and the required pre-knowledge:

Differential and integral calculus of functions of one and several variables, basic information from algebra.

Courses form and teaching methods:

Lectures.

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

Examination.

Basic Bibliography:

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Additional Bibliography:

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