Title	Code
Mathematics	**1010321221010340129**
Field: **Electrotechnics**	Year / Semester: **1 / 2**
Specialty: **-**	Course: **core**
Hours: Lectures: **3** Classes: **2** Laboratory: **-** Projects / seminars: **-**	Number of credits: **6**
	Language: **polish**

Lecturer:

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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 and methods of differential and integral calculus of functions of several variables, differential equations and Taylor and Fourier series.

Contents of the course (course description):

Differential calculus of functions of several variables: function of n-variables, limits and continuity, partial derivatives, differentials, local and absolute extrema.

Integral calculus: multiple integrals ? definitions, properties, applications, conversion of variables. Line integrals. Functional series, Taylor and Fourier series.

Differential equations of first and second order - methods of solving.

Basic problems of theory of probability.

Introductory courses and the required pre-knowledge:

Differential and integral calculus of functions of one variable.

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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