Faculty of Civil and Environmental Engineering

Title **(Matematyka)**	Code **1010104121010340647**
Field **Civil Engineering Extramural First-cycle Studies**	Year / Semester **1 / 2**
Specialty **-**	Course **core**
Hours Lectures: **1** Classes: **22** Laboratory: **-** Projects / seminars: **-**	Number of credits **7**
	Language **polish**

Lecturer:

-dr inż. Ewa Magnucka-Blandzi
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Faculty:

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Status of the course in the study program:

-Basic course, mandatory subject.

Assumptions and objectives of the course:

-Basic command in the notions and methods of: mathematical analysis in functions of a real variable and several variables. Preparing students for studies during the third semester.

Contents of the course (course description):

-Integrate calculus of functions of a real variable - indefinite integrals: integration by parts and substitution. Definite integral and its application: the area, the arc length, the area of a surface of revolution, and the volume of solids of revolution. Partial derivatives and extremes of functions of several real variables. Ordinary differential equations of first order.

Introductory courses and the required pre-knowledge:

-Basic knowledge in mathematics from high School (Advanced course), as well as from the first semester.

Courses form and teaching methods:

-Lectures, classes.

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

-Oral and written exams, CATs- Continuous Assessment Tests.

Basic Bibliography:

Additional Bibliography: