Poznan University of Technology

Faculty of Civil and Environmental Engineering

European **C**redit **T**ransfer **S**ystem

Title **Mathematics**	Code **1010134211010340385**
Field **Environmental Engineering Extramural First-cycle studies**	Year / Semester **1 / 1**
Specialty **-**	Course **core**
Hours Lectures: **2** Classes: **20** Laboratory: **-** Projects / seminars: **-**	Number of credits **6**
	Language **polish**

Lecturer:

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Faculty:

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Status of the course in the study program:

> General course.

Assumptions and objectives of the course:

> To give a knowledge of the mathematical analysis.

Contents of the course (course description):

> 1. Real numbers. Basic elementary functions of one argument. Infinite sequences. Limits and continuity functions.
> 2. Derivative of a function and basic derivative theorems.
> 3. Applications of the derivative, differentials.
> 4. Antiderivative. Indefinite integral. Basic integration methods.
> 5. Definite integral. Applications of the definite integral.
> 6. Infinite series. Convergence of series.

Introductory courses and the required pre-knowledge:

> Fundamental knowledge in the mathematics.

Courses form and teaching methods:

> Lecteres and classes.

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

> Examinations (both oral and written) tests.

Basic Bibliography:

Additional Bibliography: