

## Tárgytematika / Course Description Calculus 1.

GKNB\_MSTA053

Tárgyfelelős neve /

Teacher's name: dr. Kallós Gábor

Félév / Semester: 2024/25/2

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 1/1/1

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

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### OKTATÁS CÉLJA / AIM OF THE COURSE

The main objective of the course is to learning the basic concepts and methods, their computational tools and applications in engineering environment of one and several variable functions, including the differential and integral calculus of one variable functions.

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### TANTÁRGY TARTALMA / DESCRIPTION

During the programme the students perform projects, some of which requiring mathematical competencies to be taught in atoms. In this course the topics of the related atoms and the related projects are listed below:

Atoms:

- Vectors, coordinate systems
- Complex numbers
- Functions of one variable: basic functions, properties, graphs, limits, continuity, differentiation

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### SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

The total grade is given based on 2 tests. The results of the tests are added.

Final evaluation according to the total grade is as follows:

- 0-51% fail,
- 52-61% passable,
- 62-71% satisfactory,
- 72-81% good,
- 82-100% excellent.

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### KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

<https://openstax.org/subjects/math>

**AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**