

## Tárgytematika / Course Description Calculus 3

GKNB\_MSTA056

Tárgyfelelős neve /

Teacher's name: dr. Kallós Gábor

Félév / Semester: 2023/24/2

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 and several variable functions.

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### TANTÁRGY TARTALMA / DESCRIPTION

During the program, the students perform projects, some 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:

- Functions of several variables: differentiation and integrals
- Differential equations
- Applications of differential equations

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

The grades will be given based on the points collected throughout the semester. Points can be earned on two written tests and a presentation of a complex exercise. The following grades will be given based on the number of points earned.

Grade Evaluation

- 0- 51%: fail (1),
- 52- 61%: satisfactory (2),
- 62- 71%: fair (3),
- 72- 81%: good (4),

82-100%: excellent (5).

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## **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

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

Calculus 2, Calculus 3.

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## **AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**