

Tárgytematika / Course Description

Calculus 2.

GKNB_MSTA054**Tárgyfelelős neve /****Teacher's name:** dr. Kallós Gábor**Félév / Semester:** 2025/26/1**Beszámolási forma /****Assesment:** Folyamatos számonkérés**Tárgy heti óraszám /****Teaching hours(week):** 1/1/1**Tárgy féléves óraszám /****Teaching hours(sem.):**

OKTATÁS CÉLJA / AIM OF THE COURSE

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

TANTÁRGY TARTALMA / DESCRIPTION

Projects:

- Slider crank mechanism
- WLTP, NEDC driving cycle

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

The total grade is composed from three parts: from the evaluation of knowledge of the related atoms, from the points gained in quizzes during every lessons and from the evaluation of the application of the related atoms in project performance. Atoms related knowledge is evaluated via tests that follow the teaching of the course, while the application of the atoms in projects are evaluated during the project performance. Two written tests must be accomplished during the semester. If the student does not achieve 50% of the points in the tests together, she/he is allowed to write a retake test. Those who do not reach the minimum requirement in the tests will not be allowed to participate in the project work.

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.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

<https://openstax.org/subjects/math>
K.A: Stroud: Engineering Mathematics

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL