

## Tárgytematika / Course Description Dynamics of Machines

GKNM\_AMTA008

Tárgyfelelős neve /

Teacher's name: dr. Kupa Gábor

Félév / Semester: 2022/23/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/2/0

Tárgy féléves óraszám /

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

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### OKTATÁS CÉLJA / AIM OF THE COURSE

The subject presents the dynamical analysis, design, and principles of safe operation of machines on the base of knowledge of mathematics and physics acquired in previous studies. Numerical/computer methods are presented for the real engineering structure in the lab seminars.

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## SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

**Two times** in the semester (somewhen in the 6th and 12th weeks) **tests will be given** from the topics of the lectures of the previous weeks. Each tests are worth maximum 20 points.

At the end of the semester **a problem must be solved with Scilab software in a computer room**. The flawless solution is worth **20 points**. The computer midterm test is **not obligatory**.

If one reaches at least 30 points in the two midterm tests, (s)he gets an offered grade.

- 30-34 points good (4)

- 35-40 points excellent (5)

**Conditions for signature** (to be fulfilled during the class-period and necessary for acquiring the grade):

At least **6 points** (from 40 points) must be reached in the **two midterm tests**.

If some one does not reach 6 point in the two midterm tests, (s)he can write a retake test in the last week. The maximum is

20 points in this test. At least 6 points are needed for the signature.

**Exam (grade):**

The sum of the points of the mid-term tests, the problem solved with computer, and the exam determines the mark. The grading is as follows:

- 0-55 points fail (1)

- 56-71 points pass (2)

- 72-87 points satisfactory (3)

- 88-105 points good (4)

- 106-140 points excellent (5)

Students must provide proof of their identity with an official card (eg. ID card, passport, driving license, etc.) at the tests. Those students, who apply unauthorized means (book, lecture notes, infocommunication means, etc.) different from those

listed in the course requirement or adopted by the lecturer in charge of the course assessment will be disqualified from the

exam as a consequence of their action, and the exam mark will automatically become "Fail (1)".

**Consultation:**

Each lecturer will have one hour per week for consultation. Time and place will be determined according to the needs of students.

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## KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Szabó T.: Szerkezetek dinamikája, MSc jegyzet, Universitas-Győr Nonprofit Kft., 2012.

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## AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL