

## **Tárgytematika / Course Description** **Electrics and Electronics 1**

**GKNB\_AUTA047**

**Tárgyfelelős neve /**

**Teacher's name:** Kovács Gergely

**Félév / Semester:** 2023/24/2

**Beszámolási forma /**

**Assesment:** Folyamatos számonkérés

**Tárgy heti óraszám /**

**Teaching hours(week):** 1/0/1

**Tárgy féléves óraszám /**

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

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### **OKTATÁS CÉLJA / AIM OF THE COURSE**

Aim of course is to give the basic concepts of electrical circuits

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### **TANTÁRGY TARTALMA / DESCRIPTION**

Within the subject there will be project tasks to be completed by the students. In order to be able to complete these projects the students will be provided the required theoretical knowledge through modules so called Atoms. These are the following:

Atoms:

- Microcontrollers, actuators

Projects:

- LED display, dimmable disco light

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

Evaluation will take place as follows: written or oral assessment of atoms (50%) AND class and project participation (50%).

Written or oral assessment of atoms (50%): will evaluate students' knowledge related to the course material. The assessment takes place throughout the semester.

Class and project participation (50%):

- Class participation (20%) will be evaluated based on presence and the quality of questions and comments during class time. Throughout the semester at least three (3) substantive questions are expected from each student during class or consultation time

- Successful completion of project work related to the course throughout the semester (30%)

Assessment is performed on a scale of five grades. Grades will be determined 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**

Free eBook from bookbon.com:

Wasif Naeem, Concepts in Electric Circuits

Supplementary video lessons:

<https://www.youtube.com/playlist?list=PLEfarzfpitd2UzBkT2JLxXTvc2adnuVjC>

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## **AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**