

Tárgytematika / Course Description Engineering computations of vehicle systems

AJNB_BMTA047

Tárgyfelelős neve /

Teacher's name: dr. Hanula Barna Félév / Semester: 2023/24/2

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszáma / Tárgy féléves óraszáma /

Teaching hours(week): 0/2/0 Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The course aims to provide essential programming skills in MATLAB which enable the students to solve different challenges in the engineering field.

TANTÁRGY TARTALMA / DESCRIPTION

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SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Besides active participation, to meet the fulfilment conditions of the subject, an assignment must be made and documented by the students.

Groups formed from students must elaborate a solution using MATLAB for one of the previously presented challenges during the semester.

The documentation must be written in English based on the following criteria:

Description of the chosen topic
Presenting the model for the solution of the challenge
Presenting and explaining the MATLAB code behind the model
Boundary conditions of examined cases
Making a detailed comparison of the results of the different cases
Examination of the applicability of the obtained results

The documentation of the results must be made in digital form, using the uploaded .docx template which can be found at the subject course in szelearning. Grades are determined on the basis of a professional evaluation of the submitted work.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL