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KON-C2004 - Mechatronics Basics, Lecture, 22.10.2024-12.12.2024

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## Week 1



Lecture 1: Introduction


Location: K1/213

Introduction to the topics of the course and the course arrangements.



Lecture 1 recording


There seems to be something wrong with the audio. I'm sorry! I ordered AV service.



Lecture 2: DC motors and steppers

Location: K1/216

DC electric motors and stepper motors. Basic principles, different motor types and their main properties.



Lecture 2 2023 recording

Unfortunately in this year's lecture, the audio recording was not working in that hall. I ordered AV maintenance also there. Last year lecture recording here.

## Exercise 1: Mechanics, Electrics and Simulink Basics - warming up

### (DL. 29.10. at 10:00 am)


These are either introductory exercises or memory refreshing exercises depending on your background. You can complete these also well before the course begins if you like.

See also [Introduction to Mechanics](#) and [Introduction to Electrics](#).


Use of Matlab is required to pass the course. We recommend Aalto computers to use Matlab. You can also use Aalto virtual desktop or [install Matlab to your own computer](#).

The first session includes a Matlab/Simulink demo, which might be useful if you are not familiar with the software. Otherwise the exercise sessions are for the students to ask questions and help for the exercises.


Before you start to do the exercises read the following material: [Exercise and MyCourses instructions](#) and [How to change Simulink variable export settings](#) (this is required). Check also [Simulink for beginners](#) upon need.




1.1 Mechanics Basics - 14 points




1.2 Electrics Basics - 9 points



1.3 Simulink warmup - 7 points

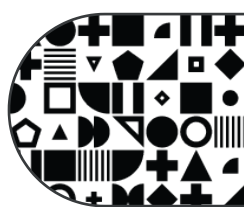


Solutions for exercise round 1



Feedback round 1 - 1 point

By answering this feedback questionnaire, you get one credit. Questionnaire will be closed two weeks after exercise 1 is closed.



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Week 2

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