

Week 4

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Lecture 7: Measurement systems

Location: K1/213

Measuring and signal processing. Electromagnetic coupling of disturbance signals.

Fourier series demo for Matlab available [here](#). Co-Lecturer Panu Kiviluoma.

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Lecture 7 recording

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Lecture 8: Other sensors

Location: K1/216

Sensing force, torque, strain, temperature, acceleration, magnetic field...

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Lecture 8 recording

Exercise 4: Measurement systems, aliasing and filtering (DL. 19.11. at 10:00 am)

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4.1 Signal filtering - 7 points

First order RC filter.

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4.2 Data acquisition -14 points

Analysis of an acceleration measurement system.

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4.3 Fourier analysis - 9 points

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Solutions for exercise round 4

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Feedback round 4 - 1 point

By answering this feedback questionnaire, you get one credit. Questionnaire will be closed before the exam.

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data.txt TXT

Data file for fourier analysis.

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