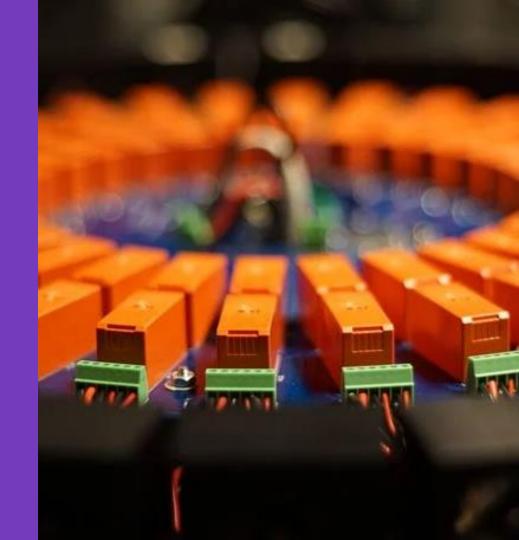
ELEC5780

Postgraduate course on measurement science and technology Lecturer Juha Peltoniemi



Aalto University School of Electrical Engineering



Teacher

Juha Peltoniemi

Lecturer, PhD, docent

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Office: 3528, Maarintie 8

Expert in underground measurements and management





Codes

• ELEC E5780

- Postgraduate course on measurement science and technology
- 10 credit units

• ELEC E5781

- Alternative code for the same course
- Sometimes there have been or may be different courses with the same code

• ELEC E5740

- Research seminar on measurement science and technology
- 2 points
- Only follow the lectures, all of them
- No own lecture
- ELEC E5741
 - Alternative code



Passing the course

- Attend all the lectures
 - Really all
- Exceptions in case of illness etc
 - Must compensate with a separate assignment

- E5780
 - Give your own lecture
 - Two hours (2 x 45 min = 1 h 30 min)
 - May be related to your research work
 - Not a report of your results



Topics for the lecture

Up to you to decide

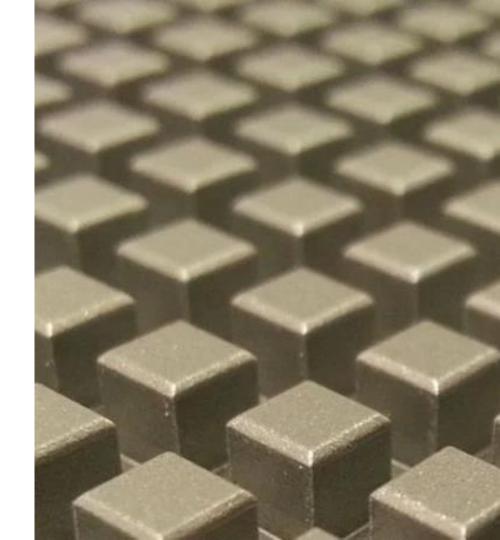
Almost anything scientifically related to measurements

Physical, chemical, technical, commercial, astronomical measurements

Even theory of measurement

You do not need results yet





About the lecture

Describe

- what you measure
- why you measure
- how you measure
- how you analyze the data
 Pay attention to quality
- Uncertainties
- Errors
- challenges



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Contents of your lecture

- Calibrate the level to the assumed knowledge of your fellow students
 - Postgraduate course
 - Various backgrounds
- Do not overestimate
 - People forget fast
 - People enjoy hearing what they already know

- So do not forget the basics
 - Repetitio est mater studiorum
- Consider what your fellows
 need to learn
- Be prepared for questions and discussions
- Promote interactionality



Times of the lectures

Reserve your time slot as early as possible until May

Communicate at next lectures or email to Juha

Flexible schedule

• We do not meet every week

Lecture hall reserved for us Thursdays 8-12

Agreed to start 9 o'clock

Other locations possible

- Could be even your work place if you want to present your laboratory and hands-on work
- A plain laboratory tour is not sufficient for the lecture



Bad times

Any times to avoid due to your known absence?

No lectures

- 23 February
- 2 March

Also 16 February booked for others after 10 o'clock

Before that possible





Initial programme



26 January

Introductory lecture

Juha Peltoniemi

2 February

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Uncertainties in measurements of

Juha Peltoniemi

9 February

Combining measurement science and quality to achieve global success in industry?

Martti Heinonen, VTT MIKES 9 March

Masoud Rastgou

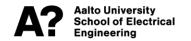


Relax

No one has yet died on this course Your lecture does not have to be perfect – good is sufficient

- You do not have to be perfect
- You are learning here
- You can make mistakes
 - Just learn about them

You can ask the lecturer for any help and assistance you need





See you in the next lecture f (2) (*) (*) (*)

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