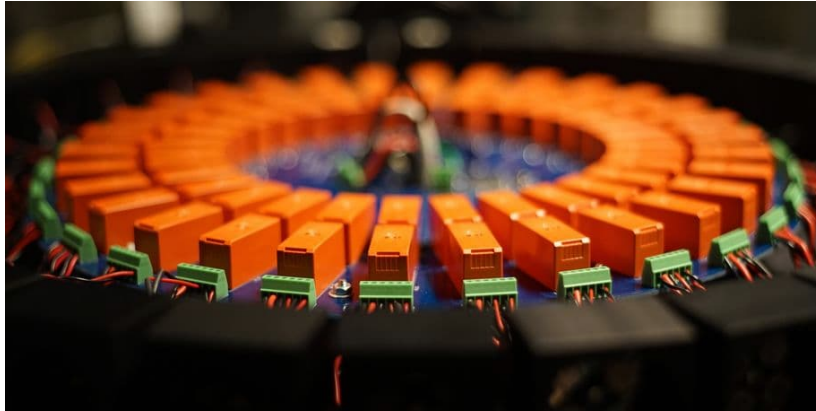


Doctoral Course in Measurement Science and Technology V D



Time: January–April 2025, Thursdays 10:15–12:00 (other times may be agreed)

first lecture 23 January 2025 10:15

Place: Lecture room 3527 ELEC, Maarintie 8 (TUAS), third floor.

Lecturer: Juha Peltoniemi, juha.t.peltoniemi@aalto.fi, +358 (050) 4350142

Purpose: learn about the broad scope of measurement science and technology and see the state of the art in metrology in the fields presented.

Method: The course consists of some expert lectures and lectures given by the students. All students prepare one two-hour lecture (or two one-hour lectures) on their selected topic related with measurements and present it to other participants. These lectures are complemented by lectures on general measurement topics such as metrology, quality, and uncertainty evaluation.

Topics of the lectures are selected based on the needs and interests of the participants. Typically, they are within the doctoral research fields of the participants. These fields may include e.g. optics, physics, measuring systems, measurement electronics, chemistry, astronomy, or general measurement science and data analysis. The lectures should be understandable to all the audience. Presenting original results is not expected, as the course focuses on the art of measurement and related data analysis, like uncertainty evaluation.

Assessment Methods and Criteria: Passing the course will be based on attendance to the teaching, giving a lecture, and possible grades of the special assignments.

Prerequisites: M.Sc. degree in measurement science, electronics, chemistry, engineering or physics, or corresponding skills and knowledge (e.g. advanced studies in relevant fields).

Code: ELEC-L8745 (replaces previous codes ELEC-E5780, ELEC-E5781)