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NEW LECTURE (WS19/20): Medical Measurement Methods

Target Students

- Students of M.Sc. 'Medizintechnik' or 'Maschinenbau/MGT'
- Specialisation 'Medizingerätekonstruktion'
- Highly interested in creating devices that interact with the body

Course Information

- 2 + 2 SWS, 6 LP, EF
- Lecture and hands-on lab (every week)
- Written exam
- Course language: English
- Max. 32 students

Course Goals

Explain the basic principles of a sensor

Describe measurement properties

Explain how a physical value is converted into a digital value

Implement basic electrical circuits transforming physical values into electrical values

Explain measurement methods of multiple physical quantities in medical engineering

Implement signal amplifiers and methods to reduce noise

Select and setup the appropriate sensor for a given medical application

Content