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

Contact: mmm@imt.uni-stuttgart.de
www.imt.uni-stuttgart.de