

# Tallinn University of Technology

## Department of Biomedical Engineering

### Team

Hiie Hinrikus, Prof.; Jaanus Lass, PhD; Maie Bachmann, PhD

### Experience – microwave effects on human nervous system

- Physical models of microwave effect:
  - parametric mechanism of excitation of EEG;
  - parameters directly affected by MW - dielectric polarization, diffusion.
- Modulated microwave effects on human EEG and cognition:
  - Balance of EEG power of higher and lower frequency bands is a measure of brain disturbance.
- Physiological signal analysis – linear and nonlinear methods.