

## Laboratories for pacing and ablation for Master degree students

At the pacing and ablation laboratories, the Peter Osypka Institute offers to the master degree students an assortment of tests:

- Measurement of double chamber-stimulation systems at Biotronik HPM40 Mobile measuring device, as well as Biotronik PM30 and Osypka PP100.
- In vitro simulation of the functions and qualities of the implantable Neurostimulators Medtronic Kinetra 7428.
- In vitro simulation of the functions and qualities of the implantable antitachycardia DDD pacemaker Medtronic AT501
- In vitro simulation of modern options of implantable defibrillators of the series Medtronic Viva/Brava and Protecta.
- Electric-physiological in vitro examination in the simulator Intersim II USB using Micropace EPS320.
- Measurements to electrocardiographic diastolic AV Delay optimization with and without the use of tele-metric electrogram.
- Electric qualities of the Bundle-of-His Electrocardiogram Filter-amplifier Biotronik HBV20MV
- MRT/CT IMAGE integration in the electro-anatomical Mapping system CARTO XP.
- Qualities of the external Stimulators Biotronik ERA 2.
- Configuration of Hardware and software for a simple electrophysiological Mapping-work station with BARD Mono-Lab and MicroPace EPS320 Stimulator as well as functional demonstration with the help of in vitro simulations.
- Configuration of Hardware and software for a simple work station for transesophageal and intracardiac stimulation and deflection with BARD Mono-Lab, Biotronik USM30 Stimulator, Fiab Stimulator-Booster 2007 and Osypka-Rostock filter as well as functional demonstration based on in vitro simulations.
- Configuration of Hardware and software for an electrophysiological Ablation-workstation with BARD Duo-Lab, MicroPace EPS320 Stimulator, Stockert G4 Cooled Ablation system and CARTO XP as well as functional demonstration based on in vitro simulations.
- Configuration of Hardware and software for an electrophysiological Ablation-workstation with BARD Duo-Lab, MEDICO TECS II Stimulator, Stockert EP shuttle Cooled Ablation system and CARTO XP as well as functional demonstration based on in vitro simulations.
- Configuration of Hardware and software for an electrophysiological Ablation-workstation with BARD Duo-Lab, Biotronik UHS20 Stimulator, Osypka HAT300s or Boston Scientific Maestro High frequency-Ablator and CARTO as well as functional demonstration with the help of in vitro simulations.
- Configuration of Hardware and software of Ultrasound-based electro-anatomical Ablation-workstation Boston Scientific Real Time Position Management System as well as functional demonstration of electrogram recording, stimulation, anatomical Mapping and HF-Ablation based on in vitro simulations.