

Biophysics for Physiotherapy – 2019/20
Library of Department of Biophysics, A1
Wednesdays 13,00 – 15,40
Main lecturer: Prof. Mornstein

September 18th - **Healthcare informatics (dr. Bourek)**

September 25th - **Medical Devices: Introduction. Structure of matter**

October 2nd - **Thermodynamic principles. Thermodynamics and life**

October 9th - **Resting and action membrane potential. Biosignals and their processing. Thermometry**

October 16th - **Introduction to biophysics of receptors. Biophysics of hearing, vestibular sense and visual perception. Sensory perception examination and aids.**

October 23rd - X-ray Imaging

October 30th - Structure of living matter. Biomolecular and Cellular Research Devices (Mgr. Vlk)

November 6th - **Magnetic resonance imaging (MRI). Infrared imaging**

November 13th - **Nuclear medicine and radiotherapy**

November 20th - **Ultrasound diagnostics**

November 27th - **Physical Therapy. Occupational Safety When Using Medical Devices**

December 4th - **Microscopy**

December 11th - **Biophysics of cardiovascular system. Biophysics of breathing. Devices for substitution and assist of body organs**

December 18th - **Safety aspects of air pressure and gravity changes, and ultrasound. Endoscopy and lithotripsy.**