**Medical Biophysics – Dental medicine – 2024/25**

Fridays 10,00-11,40 (room B11,211), Main lecturer Prof. Mornstein

Friday September 20th

*Lecture cancelled*

Friday September 27th

**Introduction. Structure of matter. Structure of living matter and how to study it (Mgr. Vlk)**

Friday October 4th

**Thermodynamic principles. Thermodynamics and life**

Friday October 11th

**Biophysics of hearing and vestibular sense. Biophysics of visual perception. Sensory perception examination and aids.**

Friday October 18th

**Ultrasound diagnostics**

Friday October 25th

**Magnetic resonance imaging (MRI)**

Friday November 1st

**Nuclear medicine and radiotherapy**

Friday November 8th

**X-ray Imaging.**

Friday November 15th

**Safety aspects of ultrasound. Physical therapy overview.**

Friday November 22nd

**Biosignals and their processing. Biocybernetics.**

Friday December 29th

**Resting and action membrane potential.**

Friday December 6th

**Microscopy (Mgr. Vlk)**

Friday December 13th

**Healthcare informatics (dr. Bourek)**