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)**