

## **Medical Biophysics – Dental medicine – 2023/24**

Fridays 11,00-12,40 (room B11,228), Main lecturer Prof. Mornstein

Friday September 22<sup>nd</sup>

**Medical Devices: Introduction. Structure of matter.**

Friday September 29<sup>th</sup>

**Structure of living matter and how to study it**

Friday September 6<sup>th</sup>

**Thermodynamic principles. Thermodynamics and life**

Friday October 13<sup>th</sup>

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

Friday October 20<sup>th</sup>

**Ultrasound diagnostics**

Friday October 27<sup>th</sup>

**Magnetic resonance imaging (MRI)**

Friday November 3<sup>rd</sup>

**Nuclear medicine and radiotherapy**

Friday November 10<sup>th</sup>

**X-ray Imaging.**

Friday November 17<sup>th</sup>

***State holiday***

Friday November 24<sup>th</sup>

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

Friday December 1<sup>st</sup>

**Biosignals and their processing. Biocybernetics.**

Friday December 8<sup>th</sup>

**Resting and action membrane potential. Microscopy (Mgr. Vlč)**

Friday December 15<sup>th</sup>

**Healthcare informatics (dr. Bourek)**