

## **Medical Biophysics – Dental medicine – 2021/22**

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

Friday September 16<sup>th</sup>

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

Friday September 23<sup>rd</sup>

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

Friday September 30<sup>st</sup>

**Thermodynamic principles. Thermodynamics and life**

Friday October 7<sup>th</sup>

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

Friday October 14<sup>th</sup>

**Ultrasound diagnostics**

Friday October 21<sup>nd</sup>

**Magnetic resonance imaging (MRI)**

Friday October 28<sup>th</sup>

*State holiday*

Friday November 4<sup>th</sup>

**Nuclear medicine and radiotherapy**

Friday November 11<sup>th</sup>

**X-ray Imaging.**

Friday November 18<sup>th</sup>

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

Friday November 25<sup>th</sup>

**Protection of the Patient from Ionizing Radiation and Image Quality Outcomes in  
X-Ray Imaging**

Friday December 2<sup>nd</sup>

**Resting and action membrane potential. Microscopy**

Friday December 9<sup>th</sup>

**Biosignals and their processing. Biocybernetics.**

Friday December 16<sup>th</sup>

**Healthcare informatics (dr. Bourek)**