

**Course name: Radiology** (USOS Code: B-BM.085Eng)

**ECTS: 1**

**No. of hours: 15** (15 lectures + 0 classes)

**Course coordinator:** Prof. dr hab. Mariusz Gagoś

**Prerequisites:** Completed course in Physics with elements of biophysics

**Course description:** Natural and artificial radioactivity. The effect of ionizing radiation on cells and tissues. Fundamentals of radiation protection. Physical and technical basics of radiology. Conventional radiology (RTG). Computed tomography (CT). Nuclear resonance tomography (NMR). Scintigraphic methods of Nuclear Medicine. Tomographs: SPECT and PET. Ultrasound. Methods of registering and receiving images. Discussion of the above-mentioned diagnostic methods based on examples of the diagnosis of specific disease entities.

**Recommended literature:** Mikla Victor. Medical Imaging Technology. 2013. Elsevier.