

Doctoral School: **Biology Doctoral School**
Doctoral Program: Neuroscience and Human Biology

Subject code: **BIO/7/17**
Subject title: **Imaging brain structure and function PR**
Teacher and Neptun code: **Dr. D t ri L szl  (D7ZI0N)**
Credits: 4
Class hours: 2 hours/week, lecture

Aims of the course

The aim of the practical is to present the working principles, uses, advantages and disadvantages of imaging procedures used to examine the brain.

Contents of the course

Examination of brain function using various imaging procedures.
Difficulties of classical studies.
Computerized EEG recording.
Detection of changes in oxygen content: MRI or its dynamic version: fMRI.
Fundamentals and use of positron emission tomography (PET) in diagnostics and research.
A modern version of PET: PET-CT.
New imaging methods.

Requirements

Written test

Literature

Power point slides

