

2022-2023

DRAD6205 – Magnetic resonance imaging – principles and its applications

Topic	Teaching mode (e.g. Lecture, Tutorial, Lab, Practical)
S01: Introduction of MRI and signal source S02-S03: Excitation, signal detection, relaxation effect, and spin-echo S04: Spatial encoding & image formation S05: Principle of k-space and echo-planar imaging S06: Hardware of MRI S07: Control of image quality and contrast (After class scanning session) S08: Scan acceleration with rapid gradient-echo S09: MRI image artifacts S10: Advanced MRI scans S11: Phase contrast MRI S12: Practical: Diffusion-weighted imaging	Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Practical

Assessment method: 55 % in-course assessment
45 % final examination

Classes to be held on weekday evening in the 1st semester