

2022-2023

DRAD6206 – Molecular imaging and medical cyclotron

Topic	Teaching mode (e.g. Lecture, Tutorial, Lab, Practical)
S01: Physics of Molecular Imaging S02: PET Cameras S03: Data Acquisition & Performance Evaluation of PET S04: Image Reconstructions in PET (OSEM, AC and SC) S05: Quantitative Techniques in PET (SUV, Compartment & dynamic modelling) S06: Coregistration with Functional Images S07: Cyclotrons S08: Practical: Operation of a Medical Cyclotron S09: Radiochemistry 1 (Basic & Radiochemistry) S10: Radiochemistry 2 (C11 – Radiochemistry & Metal radionuclides) S11: Automated Synthesizer S12: Practical – Operation of automated synthesizer S13: Radiation Dosimetry & Protection in PET S14: Pharmacy Rules & GMP S15: Quality Assurance in Molecular imaging S16: Practical: Quality Assurance and Acceptance Testing of PET-CT S17: Clinical Application of FDG PET S18: Clinical Application of C11 PET S19: Tracer Kinetic (Receptor Model, Gene Probes, Receptor Gene Imaging, multimodality) S20: Molecular Basis of new radiochemical development	Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture Practical Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture

Assessment method:	<u>40</u>	% in-course assessment	
	<u>30</u>	% final examination	
	<u>30</u>	% others (please specify):	<u>Test</u>

Classes to be held on weekday evening in the 2nd semester