Vocational School of Health Services / Medical Imaging Techniques

2024 - 2025 Academic Year

NUCLEAR MEDICINE II

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
NUCLEAR MEDICINE II	TGT2213777	Spring Semester	0+8	4	15

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	Short Cycle (Associate's Degree)
Course Type	Required
Course Coordinator	Prof.Dr. Tamer ATASEVER
Name of Lecturer(s)	Assist.Prof. Mustafa ÇAĞLAR, Prof.Dr. Tamer ATASEVER, Lect. Navıd KHERADMAND
Assistant(s)	
Aim	Learns about basic methods used in nuclear medicine
Course Content	This course contains; Application of Radiopharmacy I,Application of Radiopharmacy II,Application of Radiopharmacy III,Gamma camera and SPECT applications I,Gamma camera and SPECT applications II,Gamma camera and SPECT applications III,Gamma camera and SPECT applications IV,Cardiac SPECT applications I,Cardiac SPECT applications II,Cardiac SPECT applications III,PET/CT applications I,PET/CT applications II,PET/CT applications III,PET/CT applications IV.

Course Learning Outcomes	Teaching Methods	Assessment Methods
1. Explain basic features of radiation	16, 6, 8, 9	E
2. Learns about radiation protection	10, 16, 6, 9	A
3. Know about working principles of imaging devices	16, 6, 9	A
4. Knows how to use devices and learns about their maintance procedure	16, 38, 5, 6, 9	A

Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 38: Care Plan, 5: Cooperative Learning, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method
Assessment Methods	A: Traditional Written Exam, E: Homework

Lecture Schedule

Sequence	Topics	Preliminary Preparation
1	Application of Radiopharmacy I	presentations
2	Application of Radiopharmacy II	presentations
3	Application of Radiopharmacy III	presentations
4	Gamma camera and SPECT applications I	presentations
5	Gamma camera and SPECT applications II	presentations
6	Gamma camera and SPECT applications III	presentations
7	Gamma camera and SPECT applications IV	presentations
8	Cardiac SPECT applications I	presentations
9	Cardiac SPECT applications II	presentations
10	Cardiac SPECT applications III	presentations
11	PET/CT applications I	presentations
12	PET/CT applications II	presentations
13	PET/CT applications III	presentations
14	PET/CT applications IV	presentations

Evaluation Methods	Weight(%)
Midterm Exam	40
General Exam	60

Resources
Instructor's lecture notesNuclear medicine physics and clinical applications: Mustafa Demir