

COURSE CONTENT

University: Muğla Sıtkı Koçman University

Faculty: Medicine/ **Program:** English Program

Academic Year: 2024-2025

Phase: 5/ **Course:** Nuclear Medicine

Course Code: MED 5009/ **ECTS:** 1 / **T+U+L:** Theoretical + Practical

Course Type : Compulsory/ **Course Length :** 1 weeks/ **Type of Instruction :** Formal/ **Language of Instruction :** English

Theoretical:

1. Course Introduction- Information Meeting (1hour)
2. Detection of radioactive rays, scintigraphic methods (1hour)
3. Endocrine system (1hour)
4. Endocrine system scintigraphies I (1hour)
5. Interaction of radioionizing rays with matter, biological effects and radiation protection (1hour)
6. Myocardial perfusion scintigraphy I (1hour)
7. Myocardial perfusion scintigraphy II (1hour)
8. PET-CT in clinical practice (1hour)
9. Practice (working with image samples) (2hour)
10. Radioactivity, Radioactive beam types, Radioactive decay (1hour)
11. Radionuclide treatments I (1hour)
12. Radionuclide treatments II (1hour)
13. Radionuclides used in nuclear medicine and obtaining them (1hour)
14. Renal scintigraphies I (1hour)
15. Renal scintigraphies II (1hour)
16. Skeletal system scintigraphy and infection imaging(1hour)

Practical:

1. Nuclear Medicine Service introduction (1hour)
2. Practice (working with image samples) (5hour)

Others:

1. Academic Consulting Hour (2hour)
2. Course Evaluation Meeting (1hour)
3. Evaluation of Course Exam Questions (1hour)
4. scintigraphies II (1hour)
5. Structured Free Study Hour (6hour)