

**THE THEMATIC PLAN OF PRACTICAL CLASSES
AT THE DEPARTMENT
RADIATION DIAGNOSIS AND RADIATION THERAPY
FOR STUDENTS 3 YEAR
MEDICAL FACULTY GENERAL MEDICINE
AT 5th SEMESTER ACADEMIC YEAR 2026/2027**

№	The topic of the practical classes	Hours
1.	Physical and biological bases of radiation diagnostics and radiation therapy	3
2.	Methods of radiation diagnostics. Physical and technical principles and classification of x-ray methods	3
3.	Physical and technical foundations of X-ray computed tomography, Magnetic resonance imaging	3
4.	X-ray computed tomography. Indications and contraindications. Use in medicine	3
5.	Magnetic resonance imaging. Indications and contraindications. Use in medicine	3
6.	Physical and technical principles of radionuclide diagnostics. Application of radionuclide diagnostic methods in medicine	3
7.	Physical and technical foundations of ultrasound	3
8.	Possibilities of ultrasonic methods in the study of morphology and function of organs	3
9.	The use of ultrasound in medicine	3
10.	Principles of radiation therapy	3
11.	Methods of radiation therapy. Complications of radiation therapy	3

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