

**Thematic plan of lecture-type classes
on the discipline "Basics of radiation diagnostics" for
students of the educational program of specialization
on specialty/training direction 31.05.01 General Medicine,
specialty (profile) General Medicine,
full-time education form
for 2023-2024 academic year**

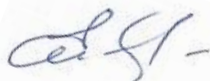
№	Topics of lecture-type classes	Hours (acad.)
1.	Radiologic method of radiation diagnostics. 1 Radiation source, object of study, radiation receiver. Artificial contrasting of the object of study. General and special techniques of radiologic research. Computer (X-ray) tomography (CT). 2	2
2.	Ultrasonic method of radiation diagnostics. 1 Principles of ultrasound (radiation source, object of study, radiation receiver). Modes and methods of ultrasound research. 2	2
3.	Magnetic resonance method of radial diagnostics. 1 Principles of magnetic resonance research. Methods of magnetic resonance research. 2	2
4.	Radionuclide method of radiation diagnostics. 1 Principles of radionuclide study. Methods of radionuclide study. 2	2
5.	Thermal imaging method of radiation diagnostics. 1 Principles of thermal imaging research. Methods of thermal imaging research. 2	2
6.	Radiation methods of research of respiratory organs. 1 Types / methods/, methods, techniques, radiation anatomy, semiotics. 2	2
7.	Radiation methods of research of the cardiovascular system. 1 Types /methods/, methods, techniques, radiation anatomy, semiotics. 2	2
8.	Radiation methods of research of the abdominal region. 1 Types / ways/, methods, techniques, radial anatomy, semiotics of GI organs, retroperitoneal space, urinary system. 2	2
9.	Radiation methods of research of the musculoskeletal system. 1 Types /methods/, methods, techniques, radial anatomy, semiotics. Features of application in pediatric practice. 2	2
10.	Radiation safety. Basics of dosimetry. Possibilities of radiation diagnostic methods on the basis of evidence-based medicine. 1 Dosimetric evaluation of radiation energy absorption, distribution in the human body when using different types of ionizing radiation. Evaluation of the effectiveness of diagnostic studies, operational characteristics of radial diagnostic methods. Sensitivity of imaging methods. 2	2
	Total	20

1 - topic

2 - essential content (if necessary)

Approved at the meeting of the Department of Radiologic Diagnostics on June 1, 2023, protocol № 11.

Head of the Department



E.V. Gorelik