Thematic plan of seminar-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 form of training
for the academic year 2023-2024

№	Topics	Hours (acad.)
1.	X-ray method of radiation diagnostics. 1 Physical and technical foundations of X-ray diagnostic methods. Indications, contraindications. Diagnostic capabilities. 2 Part 1	2
	X-ray method of radiation diagnostics. 1 Physical and technical foundations of X-ray diagnostic methods. Indications, contraindications. Diagnostic capabilities. 2 Part 2	1
2.	Ultrasonic method of radiation diagnostics. 1 Physical and technical foundations of ultrasound methods of diagnostics. Indications and contraindications. Diagnostic capabilities.2 Part 1	2
	Ultrasonic method of radiation diagnostics. 1 Physical and technical foundations of ultrasound methods of diagnostics. Indications and contraindications. Diagnostic capabilities.2 Part 2	1
3.	Magnetic resonance method of radial diagnostics. 1 Physical and technical foundations of magnetic resonance methods of research. Indications and contraindications. Diagnostic capabilities.2 Part 1	2
	Radionuclide method of radiation diagnostics. 1 Physical and technical foundations of radionuclide methods of diagnosis. Indications and contraindications. Diagnostic capabilities.2 Part 2	1
4.	Thermal imaging method of radiation diagnostics. 1 Physical and technical basis of thermal imaging methods of diagnostics. Indications and contraindications. Diagnostic capabilities. Interventional radiology.2 Part 1	2
	Radiation safety. Fundamentals of dosimetry. 1 Dosimetric assessment of radiation energy absorption, dose distribution in the human body when using different types of ionizing radiation.2 Organization of radiation diagnostics service. 1 Orders, staff composition. Ethics and deontology in radiation diagnostics departments.2 Part 2	1
5.	Radiation study of respiratory organs. 1 Types / methods/, methods, techniques; radiation anatomy, radiation semiotics. Scheme of analysis, protocol.2 Part 1	2
	Radiation study of the heart and large vessels. 1 Types /methods/, methods, techniques; radiation anatomy, semiotics. Scheme of analysis, protocol.2 Part 2	1
6.	Radiation study of the digestive tract. 1 Types / ways/, methods, techniques; radiation anatomy, semiotics. Scheme of analysis, protocol of X-ray examination of the digestive tract.2 Part 1	2
	Radiation study of the liver and biliary tract. 1 Types /ways/, methods, techniques; radiation anatomy, semiotics.2 Part 2	1
7.	Radiation study of kidneys and urinary system. 1 Types / methods/, methods, techniques; radiation anatomy, semiotics.2 Part 1	2
	Radiation study of the bone and joint system. 1 Types /methods/, methods, techniques; radiation anatomy, semiotics. Scheme of analysis, protocol of X-ray examination of the bone and joint system.2 Part 2	1
8.	Radiation study of the bone and joint system. 1	1

	Types / methods /, methods, techniques; radiation anatomy, semiotics. Scheme of analysis, protocol of X-ray examination of the bone and joint system.2 Part 1	
	Intermediate assessment. Part 2	2
	Total	24

1 - topic
2 - essential content (if necessary)
3 - one thematic block includes several seminar-type classes, the duration of one class is 45 minutes with a break between classes of at least 10 minutes.

Considered at the meeting of the Department of Radiation Diagnostics June 1, 2023, protocol № 11.

Head of the Department E.V.Gorelik