Speciality "General Medicine"

ACADEMIC DISCIPLINE
"DIAGNOSTIC RADIOLOGY AND RADIOLOGY THERAPY"
of the Therapeutic module 1

Academic discipline outline	The use of radiological imaging methods (X-ray, radionuclide, ultrasound, magnetic resonance imaging, medical thermography) and radiation therapy methods (ionizing radiation, ionizing radiation in combination with other methods) in clinical medicine for various diseases, as well as their specific features in people of different age groups.
Resulting skills	Specialized competence. To examine patients using radiological diagnostic methods, to identify the main radiological symptoms and syndromes of human diseases when using a combination of radiological imaging and radiation therapy techniques.
Learning outcomes	A student must: **know:** principles and methods of Diagnostic radiology; radiation anatomy and Radiology semiotic of the most common human diseases; principles of organ-complex application of radiation diagnostic methods; reactions and complications when using contrast agents, measures to prevent and treat local/systemic reactions and complications. methods and basic principles of radiology therapy for human diseases; methods and principles of limiting medical exposure. **be able to:** identify indications and contraindications for radiology examination; to prepare the patient for radiology examination; interpret the results of radiology examination in the most common diseases of the lungs, heart, esophagus, stomach, intestines, gallbladder, kidneys, endocrine system, bones and joints; provide first aid in case of acute adverse reactions to the administration of contrast agents; diagnose early and late reactions/complications of radiology therapy. **master:**

	skills in choosing an imaging method depending on its diagnostic capabilities in relation to a specific nosology; skills in preparing patients for radiology examinations, depending on the intended nosology; skills in interpreting the results of radiology examination and, if necessary, constructing a follow-up examination scheme; first aid skills in case of acute adverse reactions to the administration of contrast agents.
Semester(s)	5,6 semesters
Prerequisite	Medical chemistry. Medical and biological physics. Medical biology and general genetics. Human anatomy. Histology, cytology, embryology. Radiation and environmental medicine. Normal physiology.
Credit value	3 credits
Academic hours	138 academic hours, of which: 86 class hours
Forms of midterm attestation	Differentiated test