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| Name of discipline | **Radiology and radioprotection** |
| Type | Compulsory,  | Credits | 4 |
| Academic year | III | Semester | V |
| Number of hours | Course | 30 | Practice/laboratory work | 15 |
| Seminar | 15 | Self-training | 60 |
| Component | Specialized |
| Course holder | Malîga Oxana |
| Location  | (address of the department and / or the clinical bases) |
| Conditionings and prerequisites of: | Program: knowing the basics of medical physics, knowledge of human anatomy and physiology.  |
| Competences: basic digital (internet use, document processing, use of text editors, electronic tables and presentation applications), communication skills and teamwork. |
| Mission of the discipline | Preparing students for theoretical plan and guiding the practical aspects of radiology, frequently encountered in the work of future physicians, including physical bases of radio-imaging methods, radiation protection principles and measures, normal and pathological radio-imaging anatomy for the diagnosis at the level of syndrome. |
| Overview of the topics | Imaging methods of investigation. Radioprotection. Radioimaging of the respiratory system. Radioimaging of the cardiovascular system. Radioimaging of the digestive tube. Radioimaging of the osteo-articular apparatus. Radioimaging of the hepatobiliary and urinary system. |
| Outcomes  | * to know the working principle of the X-ray tube, the properties of ionizing radiation, principles and methods of radioprotection,
* to understand the basic physical principles of imaging methods of investigation,
* to know the radiological anatomy of the chest, lungs, heart, digestive system, osteo-articular apparatus, hepatobiliary, renal, nervous system
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| Clinical skills | * to recognize the anatomical features of the examined region,
* to perform radiological diagnosis at syndrome level for the pathology of pulmonary, cardio-vascular, digestive, hepato-biliary system, osteo-articular system, nervous system,
* to set contraindications to radioimaging examinations using ionizing radiation,
* to make recommendations on radiation protection measures for patients and healthcare professionals.
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| Evaluation form | Exam |