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| Name of discipline | **Dental radiology** |
| Type | Compulsory,  | Credits | 3 |
| Academic year | III | Semester | V |
| Number of hours | Course | 17 | Practice/laboratory work | 17 |
| Seminar | 34 | Self-training | 22 |
| Component | Specialized |
| Course holder | **Zagnat Vasile** |
| Location  | (address of the department and / or the clinical bases) |
| Conditionings and prerequisites of: | Program: knowing the basics of medical physics, knowledge of the anatomy, physiology, and age-specificities of the teeth and the structures of the oro-maxillo-facial region.  |
| Competences: basic digital (internet use, document processing, use of text editors, electronic tables and presentation applications), communication skills and teamwork. |
| Mission of the discipline | Students' training both in theoretical and practical aspects, often encountered in the work of future dental practitioners; presentation of the "classic" (conventional) dental radiodiagnostics aspects as well as the present and future possibilities of imaging diagnosis in dentistry and oro-maxillo-facial pathology. |
| Overview of the topics | Medical imaging and its branches. Imaging methods of investigation. Radiography. Ionizing radiation. Radioprotection. Radiodiagnosis of locomotion apparatus pathology. Imaging methods of examination in stomatology. Normal radiological anatomy of teeth, maxillofacial area and temporo-mandibular joint. Developmental anomalies of maxillofacial area. Radio-imaging diagnosis of cranial and maxillofacial area trauma. Radio-imaging diagnosis of caries and its complications. Teleradiography of the maxillofacial area. Imaging methods for diagnosis of maxillofacial area and temporo-mandibular joint (TMJ) pathology. Radiodiagnosis of inflammatory diseases of the maxillofacial area. Radiodiagnosis of cysts and tumors of the maxillofacial area. Radio-imaging diagnosis of salivary gland pathology. |
| 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 teeth and oro-maxillo-facial region
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| Clinical skills | * to set indications and contraindications to radio-imaging examinations in stomatology,
* to recognize the anatomical features of the examined region,
* to perform radiological diagnosis in the case of dental caries, pulpitis, periodontitis, cysts, osteomyelitis, bone destruction, trauma to the teeth and oro-maxillo-facial region.
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| Evaluation form | Exam |