Faculty of Stomatology, Study program 0911.1 Stomatology

Name of discipline	**Oral and maxillo-facial clinical radiology**		
Type	Opțional	Credits	1
Academic year	II	Semester	V
Number of hours	Course	10	Practical work	10
	Seminars		Self-training	10
Component	Specialized		
Course holder	Mostovei Andrei		
	Department of oral and maxillofacial surgery and oral implantology „Arsenie Guțan" (all clinical bases)		
Location Conditionings and prerequisites of:	• Proficiency in the language of instruction. • Confirmed competencies in university-level sciences (biomaterials, physics, anatomy, physiology). • Digital skills (internet usage, document processing, spreadsheet and presentation software proficiency, graphic design software usage). • Ability to communicate effectively and work in a team. • Personal qualities such as tolerance, compassion, and autonomy.		
	Competencies: basic digital skills (internet usage, document processing, text editors, spreadsheets, and presentation software), communication skills, and teamwork abilities.		
Mission of the discipline	This course aims to describe concepts related to radiological examination in dentistry and oral and maxillofacial surgery, options for selecting the type of radiological examination based on the clinical situation, and the assessment of radiographic examinations, especially in the context of cone beam computed tomography.		
Presented topics	Radiology concepts. Types of intraoral and extraoral radiological investigations. Options for selecting the type of radiological investigations. Physiological and pathological aspects of the maxillae in various types of radiological investigations (intraoral radiography, OPG, TRG, CBCT, etc.). Cone Beam Computed Tomography (CBCT). Indications and contraindications. Working principles, software peculiarities in the analysis and interpretation of investigations. Evaluation of anatomical structures based on CBCT. Assessment of pathologies in the oral and maxillofacial (OMF) region using CBCT scans. Diagnostic errors. Integration of CBCT scans in the digital era. Options for utilizing digital technologies and CBCT scans in the planning and implementation of treatments in the OMF region..		
Study purposes	Acquiring, understanding, and utilizing specific radiology terminology in dentistry, establishing indications for various types of radiological examinations. Explaining and interpreting the radiographic image depending on the clinical situation, developing clinical thinking by integrating paraclinical data with those obtained from the clinical examination. Developing a diagnostic plan and choosing optimal surgical methods based on the data obtained from the evaluation of various types of radiographs, establishing indications for complementary radiological examinations as needed;		
Purchased practical tools	• To be familiar with the specific terminology of radiology in dentistry. • To understand and interpret the clinical and radiological aspects in dentistry. • To be knowledgeable about the types of radiological examinations depending on the case and their indications. • To be acquainted with the physiological and pathological appearance of anatomical structures based on radiographs and CBCT. • To understand the principles of working with CBCT analysis software. • To be aware of the options for combining CBCT scans and digital technologies and their role in planning and rehabilitating patients with various conditions.		
Assessment form	Exam		