



**“CAROL DAVILA” UNIVERSITY
OF MEDICINE AND PHARMACY BUCHAREST**
Faculty of Dentistry
Dental Medicine in English



DISCIPLINE GRID

1. Programme:

1.1.	“CAROL DAVILA” UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY / 2nd DEPARTMENT
1.3.	DIVISION: Dental and General Radiology - Emergency University Hospital Bucharest
1.4.	STUDY DOMAIN: Health, sectoral regulated within European Union
1.5.	STUDY LEVEL: LICENCE
1.6.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline:

2.1.	DISCIPLINE NAME: Radiology – medical imaging						
2.2.	LOCATION: Soseaua Oltenitei nr.15, Sector 4, Bucuresti						
2.3.	Lectures tenure: Lecturer Epistatu Dragos, PhD						
2.4.	Practical classes tenures: Lecturer Epistatu Dragos, PhD, Assistant Professor Constantinescu Sorin, PhD						
2.5. Study year	II	2.6. Semester	III	2.7. Evaluation	Exam	2.8. Type of discipline	CD/DD

3. Estimated total time (hours/semester)

No. hours/week	2	out of which	Lectures: 1	Laboratory session: 1
Total hours out of learning schedule	28	out of which	Lectures: 14	Laboratory sessions: 14

Time distribution	hours
Textbook study, lecture support, bibliography, and notes	14
Supplementary documentation activity in the library, on online platforms	2
Practical activity support material, homework, portfolio, and essays	2
Tutorial activity	1
Examinations	2
Other activities	1
Total hours of individual study	22
Total hours per semester	50
Credits	2

4. Preconditions

4.1. curriculum	The student must be familiar with elements of general anatomy and pathophysiology.
4.2. proficiencies	The existence of practical knowledge of examination for different apparatuses and systems.

5. Conditions

5.1. for lecture activity	Amphitheatre of minimum 70 seats, computer, video projector.
5.2. for laboratory activity	MDCT and RMI devices; classroom with minimum 50 seats, PC or laptop, video projector, negatoscopes.

6. Accumulated skills

6.1. Proficiencies (<i>knowledge and abilities</i>)	I. <u>Knowledge</u> (cognitive dimension) - Students must be able to conclude a radiological diagnostic. II. <u>Abilities</u> (functional dimension) - Ability to recognize imaging normal and pathologic aspects, to describe them and to understand texts that describes them.
6.2. Transversal skills (<i>role, professional and personal development</i>)	III. <u>Role skills</u> - Identifying the physician roles and responsibilities. IV. <u>Professional and personal development skills</u> - Identifying the objectives to be achieved, the available resources, the choice, the working method, the working times, and the risks related to an erroneous diagnosis. - Effective use of information sources, communication resources and assisted professional training.

7. Objectives (based on the grid of acquired specific skills)

7.1. General Objective	- familiarizing the student with the basic notions of radiological diagnosis. - establishing radiological investigation protocols.
7.2. Specific Objectives	- the correlation of the radiological diagnosis with the general therapeutic attitude.

8. Content

8.1. Lectures	No. hrs/topic	Teaching method	Obs.
1. Introductory course	2	Exposition of the material according to the analytical program, using multimedia means, Power Point presentations, didactic movies	Format with physical presence
2. Radiological-imaging methods	2		
3. Pulmonary and mediastinal radiography	2		
4. Pulmonary pathology	2		
5. Radiological imaging of the osteo-articular system	2		
6. Craniocerebral radiological imaging	2		
7. Various pathology visible by imaging (<i>circulatory, urinary etc.</i>)	2		

8.2. Laboratory Sessions	No. hrs/topic	Teaching method	Obs.
1. Types of radiological investigations, equipment, incidents	2	Demonstration with Multidetector Computer Tomography and Magnetic Resonance Imaging device. Interactive exposition of the	Format with physical presence
2. Thoracic radiological diagnosis	2		
3. Cranio-cerebral radiological diagnosis	2		
4. Computed tomography	2		
5. Trauma and other general pathologies	2		
6. Radiological diagnosis of bone pathology	2		
7. Radiological diagnosis of medical and surgical emergencies	2		

		material according to the analytical program, using multimedia means, Power Point presentations, didactic movies	
8.3. Bibliography for lectures and laboratory/practical sessions			
1. Notices from lectures – updated every semester 2. Netter’s Concise Radiologic Anatomy Updated Edition – W. Edward C., 2018 3. Learning Radiology: Recognizing the Basics-W. Herring, 2023 4. Fundamentals of skeletal Radiology – Clyde Helms, 2019			

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and employers in the fields representative for the program

The ability to interpret the information obtained from radiological diagnosis in the context of general diagnosis.

10. Evaluation

10.1. Evaluation			
Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Lecture	Knowledge for mark 5: - satisfactory theoretical knowledge regarding the elements of radiological anatomy. - the correct expression of simple diagnoses. Additional knowledge for mark 10: - thorough knowledge of radiological examination methods. - the correct formulation of low difficulty diagnoses; description of pathological aspects from a radiography and diagnosis. - a good rendering of the theoretical notions learned.	Grid exam from the concepts presented in the course and practical works	75%
Laboratory Sessions	Knowledge for mark 5: - satisfactory theoretical knowledge regarding elements of radiological anatomy. - the correct expression of simple diagnoses. Additional knowledge for mark 10: - thorough knowledge of radiological examination methods. - the correct formulation of low difficulty diagnoses; description of pathological aspects from a radiography and diagnosis. - a good rendering of the theoretical notions learned.	Practical assessment Oral seminary at each meeting. The student is evaluated in terms of: - theoretical knowledge (questions with oral answers from the subject discussed during the practical works). - interpretation of radiography	25%
Minimum performance standards			
The correlation between the disease and the possible radiological image.			

Date: 03.09.2024

Chair of Dental and General Radiology – E.U.H.B.,
Lecturer Epistatu Dragos, PhD

Date of the approval in Department Board:
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Department director,
Professor Bucur Alexandru, PhD