



## DISCIPLINE SHEET

### 1. Study programme

<b>1.1.</b>	<b>"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST</b>
<b>1.2.</b>	<b>FACULTY OF DENTISTRY</b>
<b>1.3.</b>	<b>DEPARTMENT: II</b>
<b>1.4.</b>	<b>DISCIPLINE : DENTAL AND GENERAL RADIOLOGY</b>
<b>1.5.</b>	<b>STUDY DOMAIN: Health, sectoral regulated within the European Union</b>
<b>1.6.</b>	<b>STUDY LEVEL: I (Bachelor's degree) and II (Master's degree)</b>
<b>1.7.</b>	<b>STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH</b>

### 2. Discipline

<b>2.1.</b>	<b>Discipline name according to the study curriculum: RADIOLOGY - medical imaging</b>				
<b>2.2.</b>	<b>Discipline code: MD02S05EN</b>				
<b>2.3.</b>	<b>Discipline type (FD/SD/CD): SD</b>				
<b>2.4.</b>	<b>Discipline optionality (COD/ED/FAD): COD</b>				
<b>2.5.</b>	<b>Lectures tenure: Assoc.Prof.Dr.Epistatu Dragos</b>				
<b>2.6.</b>	<b>Practical classes / seminar tenure: Assoc.Prof.Dr.Epistatu Dragos, Assist.Prof.Dr.Constantinescu Sorin</b>				
<b>2.7. Year of study</b>	<b>II</b>	<b>2.8. Semester</b>	<b>III</b>	<b>2.9. Evaluation (E/C/V)</b>	<b>E</b>

### 3. Estimated total time (hours/ semester of teaching and training activity /individual study)

<b>I. University training</b>						
<b>3.1. Number of hours per week</b>	<b>2</b>	<b>from which:</b>	<b>3.2. lecture</b>	<b>1</b>	<b>3.3. practical class/ seminar</b>	<b>1</b>
<b>3.4. Total hours in the study curriculum</b>	<b>28</b>	<b>from which:</b>	<b>3.5. lecture</b>	<b>14</b>	<b>3.6. practical class/ seminar</b>	<b>14</b>
<b>II. Preparation/ individual study</b>						
<b>Time distribution</b>						<b>hours</b>
<b>Study of lecture materials, textbooks, books, study of the minimum recommended bibliography</b>						<b>16</b>
<b>Additional documentation activity in the library, on online platforms</b>						<b>6</b>
<b>Specific preparation activities for projects, practical classes, preparation of assignments, reports</b>						<b>2</b>
<b>Preparation for presentations or evaluations, preparation for the final examination</b>						<b>4</b>
<b>Tutoring activity</b>						<b>2</b>
<b>Other activities</b>						<b>2</b>
<b>3.7. Total hours of individual study</b>						<b>32</b>
<b>3.8. Total hours per semester (3.4.+3.7.)</b>						<b>60</b>
<b>3.9. Number of credits</b>						<b>2</b>

#### 4. Prerequisites (where appropriate)

<b>4.1. curriculum</b>	ANATOMY I - The student must be familiar with elements of general anatomy and pathophysiology.
<b>4.2. proficiencies</b>	The existence of practical knowledge of examination for different apparatuses and systems.

#### 5. Conditions (where appropriate)

<b>5.1. for lecture activity</b>	Amphitheater with a minimum of 50 seats, PC or laptop, video projector.
<b>5.2. for practical class/ seminar activity</b>	Multidetector computed tomography (MDCT) scanner, MRI machine, laboratory session room with 40 seats, computer or laptop, negatoscope

#### 6. Learning outcomes\*

<b>Knowledge</b>	<b>Skills</b>	<b>Responsibility and autonomy</b>
<b>C 1. Identifying of imagistic methods used in medicine</b>	<b>A1. The ability to understand why the particular exploration method was used and what its advantages/disadvantages are</b>	<b>RA 1. Identify the roles and responsibilities of the physician using imaging exploration.</b>
<b>C 2. Concluding a radiological diagnosis</b>	<b>A 2. The ability to recognize physiological and pathological imaging aspects, describe them and understand the texts that describe them.</b>	<b>RA 2. Understanding the objectives to be achieved, the working times and the risks associated with an erroneous diagnosis.</b>

#### 7. Discipline objectives (correlated with learning outcomes)

<b>7.1. General objective</b>	<b>-familiarizing the student with the basic notions of radiological diagnosis. - establishing radiological investigation protocols.</b>
<b>7.2. Specific objectives</b>	<b>- correlation of radiological diagnosis with the general therapeutic attitude</b>

#### 8. Contents

<b>8.1. Lecture</b>	<b>Teaching methods</b>	<b>Observations</b>
1. Introductory course	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		Format with physical presence
3. Pulmonary and mediastinal radiography		Format with physical presence
4. Pulmonary pathology		Format with physical presence
5. Radiological imaging of the osteo-articular system		Format with physical presence

6. Craniocerebral radiological imaging		Format with physical presence
7. Various pathology visible by imaging ( <i>circulatory, urinary etc.</i> )		Format with physical presence
<b>Recent bibliography:</b> 1. Notices from lectures and practical classes – updated every semester 2. Grant & Helms’ Fundamentals of Diagnostic Radiology, 6e, 2024 3. Grainger & Allison’s Diagnostic Radiology Essentials, 3e, 2024(2021)		
<b>8.2. Practical classes/ seminar</b>	<b>Teaching methods</b>	<b>Observations</b>
1. Types of radiological investigations, equipment, incidents	Demonstration with Multidetector Computer Tomography and Magnetic Resonance Imaging device. Interactive exposition of the material according to the analytical program, using multimedia means, Power Point presentations, didactic movies	Format with physical presence
2. Thoracic radiological diagnosis		Format with physical presence
3. Cranio-cerebral radiological diagnosis		Format with physical presence
4. Computed tomography		Format with physical presence
5. Trauma and other general pathologies		Format with physical presence
6. Radiological diagnosis of bone pathology		Format with physical presence
7. Radiological diagnosis of medical and surgical emergencies		Format with physical presence
<b>Recent bibliography:</b> 1. Notices from lectures and practical classes – updated every semester 2. Grant & Helms’ Fundamentals of Diagnostic Radiology, 6e, 2024 3. Grainger & Allison’s Diagnostic Radiology Essentials, 3e, 2024		

## 9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
9.4. Lecture	<b>Requirements for grade 5:</b> - satisfactory theoretical knowledge regarding elements of radiological anatomy; - correct expression of simple diagnoses.	Grid examination of the concepts presented in the lectures and practical classes	75%

	<b>Requirements for grade 10:</b> - thorough knowledge of radiological examination methods; - correct formulation of diagnoses of low difficulty, description of pathological aspects in an x-ray image and possible diagnosis; - good presentation of the theoretical notions learned		
<b>9.5. Practical classes/ seminar</b>	<b>Requirements for grade 5:</b> - satisfactory theoretical knowledge regarding elements of radiological anatomy; - correct expression of simple diagnoses.  <b>Requirements for grade 10:</b> - thorough knowledge of radiological examination methods; - correct formulation of diagnoses of low/medium difficulty.	<b>Practical assessment:</b> oral seminar at each practical class. The student is assessed both in terms of: - theoretical knowledge (questions with oral answers on the subject discussed during the practical classes);  - interpretation of radiographs	<b>25%</b>
<b>9.5.1. Individual project (if any)</b>			
<b>Minimum performance standard</b>			
<b>Minimal correlation between the possible condition, the involved organ and the radiological image</b>			