"Carol Davila" University of Medicine and Pharmacy Bucharest
Quality Assurance Committee

DISCIPLINE SHEET

1. Study programme

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

2. Discipline

2.1.	Discipline name according to the study curriculum: RADIOLOGY - imaging in dentistry				
2.2.	Discipline code: MD04S07				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: Assoc.Prof.Dr.Epistatu Dragos				
2.6.	Practical classes / seminar tenure: Associate Professor Dr. Epistatu Dragoş, Assistant lecturer Dr. Ghiuţă Consuela, Assistant lecturer Dr. Dogioiu Constantin Florian, Assistant lecturer Dr. Meilă Mălina-Elena, Assistant lecturer Dr. Solomon Emanuela				
2.7. Year of study	IV	2.8. Semester	VII	2.9. Evaluation (E/C/V)	E

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

I. University training						
3.1. Number of hours per week	14	from which:	3.2. lecture	2	3.3. practical class/ seminar	2
3.4. Total hours in the study curriculum	56	from which:	3.5. lecture	28	3.6. practical class/ seminar	28
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						50
Additional documentation activity in the library, on online platforms						10
Specific preparation activities for projects, practical classes, preparation of assignments, reports						10
Preparation for presentations or evaluations, preparation for the final examination						20
Tutoring activity						2
Other activities						2
3.7. Total hours of individual study						94
3.8. Total hours per semester (3.4.+3.7.)						150
3.9. Number of credits						50

4. Prerequisites (where appropriate)

4.1. curriculum	ANATOMY I and II - The student must be familiar with the concepts of anatomy of the dento-maxillary apparatus (Ap. D.M.) and the pathophysiology of general conditions as well as some conditions in the head and neck area.
4.2. proficiencies	Practical skills in differentiating anatomical structures of the head and neck.

5. Conditions (where appropriate)

5.1. for lecture activity	Amphitheater with minimum 100 seats, PC or laptop, video projector.
5.2. for practical class/ seminar activity	Seminar room with 40 seats, PC or laptop, video projector, negatoscopes.

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
K1. Definition and description of imaging principles and exploration methods in dentistry	S1.Recognition of appropriate and correct explorations	RA1. Understanding, analyzing and managing the consequences arising from appropriate and correct vs. inadequate and incorrect explorations
K2. Description of the radiological appearance of normal and pathological anatomical structures	S 2. Radiological identification of normal and pathological anatomical structures;	RA2. Understanding, analyzing and managing the consequences arising from the discovery of pathological aspects

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	- familiarizing students with the radiological examination of the head and neck. - establishing the indications and limits of investigation by different methods
7.2. Specific objectives	- recognition of radiological signs specific to various conditions, establishing differential diagnosis and deducing, where possible, a positive diagnosis.

8. Contents

8.1. Lecture	Teaching methods	Observations
1. Introductory course	Presentation of material according to the analytical program, using multimedia	Format with physical presence
2. Types of X-rays and equipment commonly used in dental medicine		Format with physical presence

3. Various incidences used in the field of O.M.F. medicine	resources, PowerPoint presentations, and educational films.	Format with physical presence
4. Carious and periodontal disease - imaging aspects		Format with physical presence
5. Cystic pathology - imaging aspects		Format with physical presence
6. Dentomaxillary anomalies – imaging aspects		Format with physical presence
7. Trauma – imaging aspects		Format with physical presence
8. Various pathologies visible on O.M.F. imaging		Format with physical presence
9. Benign odontogenic tumors – imaging aspects		Format with physical presence
10. Benign non-odontogenic tumors – imaging aspects		Format with physical presence
11. Malignant tumors – imaging aspects		Format with physical presence
12. Maxillary sinus pathology – imaging aspects		Format with physical presence
13. Imaging aspects of the TMJ		Format with physical presence
14. Imaging aspects of large salivary gland pathology		Format with physical presence

Recent bibliography:
1. **Notes from lectures and practical classes – updated every semester**
2. **White and Pharoah's Oral Radiology: Principles & Interpretation, 9th ed., 2024**
3. **Diagnostic Imaging: Oral & Maxillofacial, 4th ed., Elsevier, 2024**

Journals (optional):
DentoMaxilloFacial Radiology (DMFR)

8.2. Practical classes/ seminar	Teaching methods	Observations
1. Types of radiological investigations, equipment, incidences	Interactive discussion of diagnoses on X-rays; practical demonstrations of incidence management	Format with physical presence
2. Radiodiagnosis of carious disease and its implications		Format with physical presence
3. Radiodiagnosis and radiological monitoring of periodontitis		Format with physical presence
4. Radiodiagnosis of dentomaxillofacial trauma		Format with physical presence
5. Radiodiagnosis of dentomaxillary anomalies		Format with physical presence
6. Radiodiagnosis of benign and malignant tumors in the DMA		Format with physical presence
7. Radiodiagnosis of TMJ		Format with physical presence

and salivary gland disorders		

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9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
9.4. Lecture	**9.4. Course Requirements for grade 5:** **- recognition of the types of radiographs used in the maxillofacial field and the principles of their production;** **- recognition of pathological aspects in a radiograph by differentiating them from normal structures;** **- minimal theoretical notions (with / without graphic representation).** **Requirements for grade 10:** **- recognition of the types of radiographs used in the OMF field and the principles of their production;** **- recognition of pathological aspects in a radiograph by differentiating them from normal structures;**	**Written test paper from the first 7 courses (mid-year test). Final exam: written, the same as the test paper. Students who did not obtain a grade of 8.00 on the mid-year test have to prepare from all courses; students who obtained a grade above 8.00 have to prepare from the remaining 7 courses for the final examination.**	**Mid-year test = 25%** **FinalExam.thesis= 50 %**

	- detailed description of pathological aspects in a radiograph and their diagnosis - good graphic representation of the principles of radiograph production and pathological aspects; - differentiation of similar notions for differential diagnosis; - systematized presentation of the notions learned.		
9.5. Practical classes/ seminar	**Requirements for grade 5:** **- satisfactory theoretical knowledge regarding elements of radiological anatomy;** **- correct expression of simple diagnoses.** **Requirements for grade 10:** **- thorough knowledge of diagnostic methods of medium difficulty;** **- optimal ordering, exposition and differentiation of diagnoses.**	**Requirements for grade 5:** **- satisfactory theoretical knowledge regarding elements of radiological anatomy;** **- correct expression of simple diagnoses.** **Requirements for grade 10:** **- thorough knowledge of diagnostic methods of medium difficulty;** **- optimal ordering, exposure and differentiation of diagnoses. Practical assessment: After a short training session, the student receives an OPG radiograph. Then, according to a previously established protocol, he makes the imaging diagnosis from a dental, periodontal, prosthetic and surgical point of view. Each student's radiograph is different. In a maximum of 20 minutes,**	

		the student orally presents the sheet with the diagnoses and their motivation. These are corrected and the grade is communicated. The student is assessed both in terms of: - theoretical knowledge; - interpretation of radiographs and putting in order the diagnoses	
9.5.1. Individual project (if any)			
Minimum performance standard			
Knowledge of the types of exploration used in head and neck imaging. Knowledge of the successive phases of the radiological diagnosis strategy in different situations. Knowledge of the minimum concepts of radiological diagnosis.			