



**“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 / 1st DEPARTMENT
1.3.	DIVISION: <i>Teeth and dental arches morphology and dental materials</i>
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: Professional practice - I Year						
2.2.	LOCATION: Eforie Clinic, 4-6 Eforie St., Sect 5, Bucharest						
2.3.	Lectures tenure: <i>Bogdan Mihai GĂLBINAȘU (DDS, DMD, PhD) – Associate Professor</i>						
2.4.	Practical classes tenure: <i>Roxana Romanita Ilici (DMD, PhD) - Lecturer, Veronica Bucur (DMD, PhD) - Lecturer, Carmen Georgescu Elena (DMD, PhD) - Assist. Prof., Dragoș Corneliu Smărăndescu (DMD, PhD) - Assist. Prof., Cristian Comănescu (DMD, PhD) - Assist. Prof..</i>						
2.5.	I	2.6.	II	2.7.	Colloquium	2.8. Type of discipline	CD
Study year		Semester		Evaluation			

3. Estimated total time (hours/semester)

No. hours/week	40	out of which	Lectures: 0	Practice: 40
Total hours out of learning schedule	160	out of which	Lectures: 0	Laboratory sessions: 160

Time distribution	hours
Textbook study, lecture support, bibliography and notes	0
Supplementary documentation activity in the library, on online platforms	0
Practical activity support material, homework, portfolio and essays	0
Tutorial activity	0
Examinations	0
Other activities	0
Total hours of individual study	0
Total hours per semester	160
Credits	2

4. Preconditions

4.1. curriculum	Notions of elementary biology Notions of dental embryology and anatomy of the head Notions of teeth and dental arches morphology
4.2. proficiencies	It is not the case

5. Conditions

Medical practice in dental office

6. Accumulated skills

1. Proficiencies <i>(knowledge and abilities)</i>	<ul style="list-style-type: none"> - The ability to identify and mark the teeth in the final dentition - Ability to use specialized terminology appropriately and in context - Knowledge of each individual morphological entity and their association in a functional morphological complex: the dental arch. - Theoretical knowledge of specific morphological elements - Rendering them by schematic drawing - Basic notions on intermaxillary occlusion relations - Theoretical and practical acquisition of general and special techniques for modelling primary morphology - Skill and exercise of crafts that involve wax modelling
2. Transversal skills <i>(role, professional and personal development)</i>	<ul style="list-style-type: none"> - Using assimilated notions in new contexts - Application of theoretical notions in practical activity - Establishing interdisciplinary correlations within the studied fields - Development of synthesis capacity - Developing the ability to integrate and collaborate - Developing organizational capacity

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

7.1. General Objective	<ul style="list-style-type: none"> - Learning by students the theoretical and practical notions for restoring the morphology specific to each final dental entity in the dento-maxillary apparatus. - Knowledge by the future dentist of the direct rendering of the lost permanent dental morphology, following the various diseases with loss of hard dental substance. - Students acquire the theoretical notions of permanent morphology so that they can be reproduced by drawing or modelling. - Developing professional communication skills to achieve effective collaboration in the development of a subsequent interdisciplinary treatment plan. - Recognition and identification of teeth belonging to the permanent human dentition - Learning the primary notions regarding intermaxillary occlusion relations - Acquiring the layout knowledge necessary to reproduce by modeling the theoretical notions of acquired morphology - The expression by drawing of the theoretical notions regarding the morphology of the permanent dental arches
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8. Content

1 Noting in the consultation sheet direct and indirect lesions and restorations in the oral cavity and identification of the restored teeth (tooth scoring systems)
2. Identification of the types of direct and indirect restorations (identification of correctly or incorrectly restored tooth morphology)
3. Establishing the prosthetic diagnosis on clinical cases (identification of the need to apply some morphological and functional restorations). Radiological identification (retroalveolar x-ray and orthopantomogram) of normal/ectopic position of the teeth and various morphological aspects.
4. Assisting the practitioner in preparing the teeth for various types of restorations (identifying the need to apply some morphological and functional restorations)
5. Direct dental restorations with modern materials from the DCR and GIC class (recognition and identification of the notions of dental morphology)
6. Arch impressions with irreversible hydrocolloids (preliminary and for antagonist model). Prosthetic field conditioning and arch impressions with synthetic elastomers (impression assistance)
7. Types of models used in the stages of obtaining prosthetic restorations (identification of the morphology of the teeth present at the level of the working models and the occlusion relationships between them)
8. Learning the basic notions related to the development of the prosthetic treatment plan together with the coordinating doctor in the context of the morphological and functional restoration of the affected teeth
9. Demonstration of the morphological and functional restoration of dental arches by the coordinating doctor by examining the correctness and adaptation of fixed prosthetic restorations
10. Preparation of fixed prosthetic restorations for fixation. Acquiring practical notions related to dental fixation materials. (elementary demonstration of methods of dosage and preparation of fixation materials)
11. Preparation of the prosthetic field for cementing fixed restorations. Prosthetic field isolation techniques.
12. Dental extractions. Identification of various morphological and anatomical aspects that influence tooth extraction and the occurrence of suppurative phenomena.

8.2. Bibliography for lectures and laboratory/practical sessions

1. Teeth and dental arches morphology - Course Handouts, PPT format, current year of study
2. Teeth and dental arches morphology - Course and Practical Works Notes, PDF format, current year of study
3. Hilton Riquieri, "Dental Anatomy and Morphology", QUINTESSENCE PUB, 2019
4. Rashmi GS (Phulari), "Textbook of Dental Anatomy, Physiology & Occlusion", Jaypee Brothers Medical Publishers, 2019
5. Rickne C.Scheid, "Woelfel's Dental Anatomy, Enhanced Edition", Ninth Edition, 2020
6. Stanley J. Nelson, Wheeler's anatomy, physiology and occlusion, Eleventh Edition, Ed. Elsevier 2020
7. G. Richard Scott, Joel D. Irish, "Human Tooth Crown and Root Morphology", Cambridge University Press, 2017

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 discipline of *Teeth and dental arches morphology, and dental materials* is a fundamental discipline, mandatory for a student to become a dentist
- Permanent and constructive dialogue with representatives of the dentist community - in order to identify the needs and expectations of employers in the field and to adapt the analytical program to the needs of the current practical activity
- Permanent participation of department members in scientific events, forms of continuing medical education and exhibitions of equipment and materials dedicated to the practical activity of dentistry - in order to maintain the theoretical and practical information introduced in the structure of the discipline at a high level.
- Maintaining contacts with other teachers in the field, tenured in other higher education institutions, to coordinate the content taught with other similar programs within other higher education institutions.
- The notions studied are in accordance with the regulations in force and which are compatible with the activities carried out at national and international level in the preclinical dentistry segment.

10. Evaluation

Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Lecture	Evaluation of practical activity	Practical activity analysis - qualifying	40%
	Evaluation of the acquisition of theoretical notions	Grid written exam and / or editorial questions	60%
Minimum performance standards			
Acquiring the main notions related to the morphology of teeth and dental arches <ul style="list-style-type: none"> • Morphology of permanent human teeth, common and differential characteristics of dental groups • Morphological characteristics of permanent dental arches • Primary elements of static occlusion • Mandibulo-maxillary reference positions • Structure of dental hard tissues Minimum grade 5 to the final grade point average			

Date:
September 4, 2023

Chair of Teeth and dental arches morphology and dental materials Division,
Associate Professor Bogdan Mihai GALBINAȘU

Date of the approval in
Department Board:

Department director,
Prof. Dr. Marina IMRE