



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



## DISCIPLINE GRID

### 1. Programme:

1.1.	<b>CAROL DAVILA UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST</b>
1.2.	<b>FACULTY OF DENTISTRY /</b>
1.3.	<b>DIVISION: PROSTHODONTICS</b>
1.4.	<b>STUDY DOMAIN: Health, sectoral regulated within European Union</b>
1.5.	<b>STUDY LEVEL: LICENCE</b>
1.6.	<b>STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH</b>

### 2. Discipline:

2.1.	<b>DISCIPLINE NAME: PROFESIONAL PRACTICE</b>						
2.2.	<b>LOCATION: Barajul Iezeru 8 sect.3 Bucharest</b>						
2.3.	Lectures tenure: <b>Assoc. Prof Dr. Cristina Bodnar</b>						
2.4.	Practical classes tenure: <b>Assoc. Prof. Dr. Irina Gheorghiu</b> <b>Lecturer/Dr. Mihaela Pantea</b>						
2.5. Study year	<b>III</b>	2.6. Semester	<b>VI (3 series)</b>	2.7. Evaluation	<b>Exam</b>	2.8. Type of discipline	<b>CD/-</b>

### 3. Estimated total time (hours/semester)

No. hours/week	<b>40</b>	out of which	<b>Lectures: 0</b>	<b>Laboratory session: 40</b>
Total hours out of learning schedule	<b>160</b>	out of which	<b>Lectures: 0</b>	<b>Laboratory sessions: 160</b>

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

### 4. Preconditions

<b>4.1. curriculum</b>	Students must have knowledge about: <ul style="list-style-type: none"> <li>• teeth and dental arches morfology and structure,</li> </ul>
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	<ul style="list-style-type: none"> <li>• dental materials and propedeutics</li> </ul>
<b>4.2. proficiencies</b>	Learning about dental materials and equipment used in Prosthodontics Learning about dental materials and equipment used in Restorative Odontotherapy

## 5. Conditions

<b>5.1. for lecture activity</b>	
<b>5.2. for laboratory activity</b>	Practice in Dental Office and Dental Clinic

## 6. Accumulated skills

<b>6.1. Proficiencies</b> <i>(knowledge and abilities)</i>	<p><b><u>I. Knowledge (cognitive dimension)</u></b> Symptoms and clinical forms of dental lesions Methods used for dental lesions detection and diagnostic</p> <p><b><u>II. Abilities (functional dimension)</u></b></p> <ul style="list-style-type: none"> <li>- Classic and modern treatment methods used for simple dental caries, according to the classical rules (Black), vs. modern techniques (based on amelo-dentinal adhesion)</li> <li>- General features and clinical implications of dental materials used in restorative therapy.</li> <li>- Knowing methods of prosthetic restoration of teeth with coronal lesions and the fundamental principles of dental preparation for unitary fixed prostheses.</li> <li>- Mastering the clinical examination protocol of static and dynamic dental occlusion, the therapeutic strategy for obtaining a functional occlusion.</li> </ul>
<b>6.2. Transversal skills</b> <i>(role, professional and personal development)</i>	<p><b><u>III. Role skills</u></b></p> <ul style="list-style-type: none"> <li>- Objectives identification, available resources, factors involved in task finishing; step by step techniques, treatment duration, risks involved.</li> <li>- Learning about working in a dental team, about each one role and responsibility, efficient relationship with other members of the team even with the patient</li> </ul> <p><b><u>IV. Professional and personal development</u></b></p> <ul style="list-style-type: none"> <li>- Identification and efficient use of information and communication sources</li> <li>- Theoretical knowledge implementation in dental practice</li> <li>- Interdisciplinary activities</li> <li>- Updating synthetic abilities</li> <li>- Updating abilities to work into a professional team</li> <li>- Updating abilities to organize dental work</li> </ul>

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

<b>7.1. General Objective</b>	<ul style="list-style-type: none"> <li>- Learning about dental caries etiology, clinical forms and therapeutically strategy.</li> <li>- Learning about detection and diagnostic of dental lesions: caries, fractures, abfractions, erosions, attrition, abrasion</li> <li>- General treatment objectives for fixed prosthesis-single units.</li> <li>- Learning about specific clinical examination of dental occlusion and implementation of functional criteria in patients with prosthetic needs.</li> </ul>
<b>7.2. Specific Objectives</b>	<ul style="list-style-type: none"> <li>- Learning about morphopathology morpho-clinical forms and symptoms of simple dental caries</li> <li>- Learning about identification and diagnostic of carious and noncarious dental lesions.</li> <li>- Learning about treatment principles of simple dental caries, specific for dentin plaque and pulpal-dentin protection.</li> <li>- Learning about conventional treatment methods of simple dental caries (Black rules) and modern dental caries treatment based on amelo-dentin adhesion.</li> <li>- Learning about correct use of the instruments and techniques for direct restorations with adhesive and nonadhesive materials.</li> <li>- Knowledge about prosthetic treatment of dental lesions</li> <li>- Types of fixed prosthodontics-single unit.; indications and contraindications.</li> <li>- Learning about materials and techniques for diagnostic stone cast and occlusal splint</li> </ul>

	<ul style="list-style-type: none"> <li>- Aknowledge about static and dinamic occlusion basics.</li> <li>- Applying functional criteria of dental occlusion in patients with prosthetic needs.</li> <li>- Dental loss - detection, differential diagnostic and treatment strategy.</li> <li>- Learning about protocols in clinical examination of patients with dental lesions.</li> <li>- Learning about alternative therapies in dental lesions.</li> <li>- Dental articulators: components and indications; step by step procedures for mounting stone casts in a semi adjustable articulator.</li> </ul>
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## 8. Content

8.1. Lectures	No. hrs/topic	Teaching method	Obs.

8.2 Laboratory Sessions		Teaching method	Obs.
<i>Occlusion and Fixed Prosthesis-single units</i>			
1. Clinical examination for prosthetic treatment with single units fixed prostheses : step by step procedures, dental lesions identification, indirect versus direct restorations or tooth extraction	10		
2. Instruments, materials, equipement and accesories used in fixed prosthodontics.	10		
3. Tooth preparation for monolithic crowns: full metal corwns, full zirconia crowns, total ceramic crowns.	10		
4. Tooth preparation for metalo-ceramic crowns.	10		
5. Tooth preparation for metalic and ceramic onlay.	10		
6. Restoration of endodontic treated teeth with severe dental loss. Post and core restoration: indications, advantages, disadvantages, tooth preparation	10		
7. Centric relation - clinical determination.	3		
8. Materials and techniqes used for ocluzal contacts registration- Maximum intercuspidal position	5		
9. Clinical examination and registration of mandibular movements: opening/closure of the mouth; protrusion and lateral movements.	5		
10. Alginate impression and diagnostic stone cast.	5		
11. Dental articulators: components and indications; step by step procedures for mounting stone casts in a semi adjustable articulator.	2		
<i>Restorative Odontotherapy</i>			
1. Learning about using specific instruments for clinical exam, cavities preparation and tooth direct restoration.	8		
2. Theoretical and practical issues about mouth isolation.	8		
3. Clinical and practical considerations about simple dental caries with/without hard dental loss	8		
4. Theoretical and practical issues about secondary marginal caries and recurrent caries.	4		
5. Learning about dental lesions detection and diagnostic methods.	4		
6. Theoretical and practical issues about establish cariogenic risk and prevention methods.	8		

7. General principles in direct restorations of teeth with dental caries. Conventional and modified techniques for adhesive restorations.	16		
8. Pulp-dentin complex protection.	6		
9. Clinical and practical considerations about provisional and final dental restorative materials: characteristics, indications, contraindications, clinical implications. Enamel- dentin adhesion –clinical implication.	10		
10. Clinical and practical considerations about restorative materials used in adhesive and no adhesive techniques in treatment of vital teeth.	8		

### 8.3. Bibliography for lectures and laboratory/practical sessions

1. Restorative odontotheraphy lecture notes 3 rd year of study
2. Restorative Odontotheraphy text book (vol.I): Cariologie. Popa M.B., Bodnar D.C., Vârlan C.M.; Univ. Ed. “Carol Davila” Bucharest 2007.
3. Restorative Odontotheraphy textbook (vol.II): Instruments used in Restorative Odontotheraphy. Marcov E.C. (coord.); Ed. Ars Docendi – University of Bucharest 2012.
4. Restorative Odontotheraphy, Treatment protocols for dental lesions. E.C. Marcov, D.C. Bodnar, N. Marcov, Ed. Univ. „Carol Davila”, Bucharest, 2020
5. Summit’s Fundamentals of Operative Dentistry: A Contemporary Approach” Hilton T.J., Ferracane J.L., Broome J.; 4th ed., Quintessence Pub. Co. Inc., Chicago, Berlin, London, 2013.
6. Sturdevant’s Art and Science of Operative Dentistry” Andre V. Ritter, Lee W. Boushell, Ricardo Walter; 7th ed., Mosby Elsevier Inc.,2019Ocluzology and Prosthetic dentistry Lecture notes; 3`rd year of study
7. Shillingburg, H.T. and D.A. Sather, Fundamentals of fixed prosthodontics. 4th ed. 2012, Hanover Park, IL: Quintessence Pub.
8. Rosenstiel, S. F., et al. Contemporary fixed prosthodontics. Elsevier,ed. 2023.
9. Nelson, S.J., Wheeler's dental anatomy, physiology, and occlusion. Tenth edition. ed. 2015, St. Louis, Missouri: Elsevier, Saunders.
10. Klineberg, I. and S. Eckert, Functional Occlusion in Restorative Dentistry and Prosthodontics. 2015, Elsevier Health Sciences UK

## 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

Discipline content is in concordance with content in other universities from Romania and abroad.

### Evaluation

10.1 Evaluation			
Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Laboratory Sessions	Evaluation of the acquisition of practical concepts	Exam	100%
Minimum performance standards			
Minimum 5 grade (Exam). Basic information for diagnostic and treatment of teeth with dental lesions using direct and indirect restorative materials and techniques.			

Basic knowledge of the clinical notions necessary for the detection and diagnosis of dental lesions and the principles of conventional and modern treatment

**Date:**  
**26.09.2024**

**Chair of PROFESIONAL PRACTICE Division,**  
Associate Professor Dr. Cristina Bodnar

**Date of the approval in Department Board:**

**Department director,**  
Prof. Dr. Marina Imre