



## 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 DENTISTRY I</b>
<b>1.4.</b>	<b>DISCIPLINE PROSTHODONTICS</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: PROSTHODONTICS I</b>				
<b>2.2.</b>	<b>Discipline code: MD04S09EN</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: Prof. Alexandru Petre</b>				
<b>2.6.</b>	<b>Practical classes / seminar tenure: Lecturer Luminița Oancea, Lecturer Andrei Măcriș, Lecturer Mihaela Pantea, Lecturer Tudor-Claudiu Spînu, Lecturer Andreea Smarandache, Assistant professor Sergiu Rădulescu, Assistant professor George Ion, Assistant professor Cezar Ioniță</b>				
<b>2.7. Year of study</b>	<b>IV</b>	<b>2.8. Semester</b>	<b>VIII</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>5</b>	<b>from which:</b>	<b>3.2. lecture</b>	<b>2</b>	<b>3.3. practical class/ seminar</b>	<b>3</b>
<b>3.4. Total hours in the study curriculum</b>	<b>70</b>	<b>from which:</b>	<b>3.5. lecture</b>	<b>28</b>	<b>3.6. practical class/ seminar</b>	<b>42</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>50</b>
<b>Additional documentation activity in the library, on online platforms</b>						<b>8</b>
<b>Specific preparation activities for projects, practical classes, preparation of assignments, reports</b>						<b>10</b>
<b>Preparation for presentations or evaluations, preparation for the final examination</b>						<b>10</b>
<b>Tutoring activity</b>						<b>2</b>
<b>Other activities</b>						<b>-</b>
<b>3.7. Total hours of individual study</b>						<b>80</b>

<b>3.8. Total hours per semester (3.4.+3.7.)</b>	150
<b>3.9. Number of credits</b>	5

#### 4. Prerequisites (where appropriate)

<b>4.1. curriculum</b>	Notions of morphology and physiology of the dento-maxillary apparatus, dental materials, dental prosthesis technology, treatment of coronary lesions with single unit fixed restorations, notions of dental occlusion.
<b>4.2. proficiencies</b>	Dental modeling in plaster and wax. Measures to prevent infections associated with dental treatments. Preparations for unitary prosthetic restorations.

#### 5. Conditions (where appropriate)

<b>5.1. for lecture activity</b>	Amphitheater equipped with projection system and whiteboard.
<b>5.2. for practical class/ seminar activity</b>	<ul style="list-style-type: none"> <li>- Dental units.</li> <li>- Access to the dental technology laboratory.</li> <li>- Laboratory with teaching models / simulators for restorative and prosthetic dental treatments.</li> <li>- Protective equipment: gown, gloves, mask, glasses / visor.</li> <li>- Telephone conversations are not allowed.</li> <li>- Photographing clinical cases and therapeutic phases is allowed only with the consent of the teaching staff and the patient.</li> </ul>

#### 6. Learning outcomes\*

<b>Knowledge</b>	<b>Skills</b>	<b>Responsibility and autonomy</b>
Description, analysis and evaluation of specialty knowledge regarding the principles of diagnosis and treatment specific to dentistry, through classical or digital methods/ techniques.	Acquiring and proving specialized clinical experience under appropriate supervision, gradually performing practical and clinical tasks necessary to ensure professional competences specific to the profession of dentist.	Correlation and application of the specialized skills necessary for diagnostic and treatment activities regarding anomalies and diseases of the teeth, jaws and related tissues.
Knowledge of the stages of treatment with fixed dental prostheses	Elaborating clinical diagnosis and classifying edentulism.	Examination of the edentulous patient for fixed dental prostheses.
Description of the technique for determining, recording and transferring occlusal relationships.	Designing the preparatory and prosthetic treatment plan with fixed dental prostheses.	Interpretation and imaging diagnosis associated with partial edentulism.
Knowledge of the structural components of fixed dental prostheses.	Chromatic determination, analysis and aesthetic diagnosis in fixed prosthodontics.	Formulation of a treatment plan for fixed dental prostheses and

		therapeutic alternatives in partial edentulism. Writing the laboratory order sheet and specific communication with the dental laboratory.
Knowledge, understanding and description of specific techniques for preparing abutment teeth for fixed dental prostheses, techniques for obtaining provisional restorations, impressions and bite registration, as well as techniques for obtaining working models and their analysis.	Applying specific techniques for preparing abutment teeth for fixed dental prostheses, techniques for obtaining provisional restorations, impression techniques and, as well as techniques for obtaining working casts and their analysis. Performing intraoral try-in and adaptation of the prostheses.	Integration of the notions of combined prosthetics – fixed + removable prostheses and specific fixed dental prostheses – resin-retained fixed dental prostheses, cantilever fixed dental prostheses, full arch fixed dental prostheses and implant-supported fixed prostheses.
Identification of clinical and paraclinical objectives for the periodic follow-up of patients with fixed dental prostheses.	Ability to perform provisional and final cementation techniques, as well as removal techniques for fixed dental prostheses.	Analysis of the design of a fixed dental prosthesis and analysis of a completed fixed prosthesis. Correct execution of the clinical stages of fixed dental prostheses.

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

<b>7.1. General objective</b>	Accumulation of theoretical information and learning clinical skills for examination, diagnosis and treatment with fixed prostheses.
<b>7.2. Specific objectives</b>	<ul style="list-style-type: none"> <li>- Mastering the technique of clinical examination of the edentulous patient, with a view to fixed prosthetics.</li> <li>- Diagnosis of edentulism for fixed restorations.</li> <li>- Formulating therapeutic options through fixed prosthetics.</li> <li>- Mastering the technique of chromatic determination and aesthetic analysis in the patient with partial edentulism that includes the visible area.</li> <li>- Designing the individualized preprosthetic treatment plan.</li> <li>- Performing clinical procedures specific to treatment with fixed prosthetics: preparation of abutment teeth, impression of the prosthetic field, recording of occlusion relationships, trial and adaptation of the designed prosthetics, final cementation, performing provisional prosthetic techniques in the office and/or through the dental laboratory.</li> <li>- Completing the laboratory sheet and communicating effectively with the dental laboratory.</li> <li>- Creating working models for fixed prosthetics.</li> </ul>

## 8. Contents

<b>8.1. Lecture</b>	<b>Teaching methods</b>	<b>Observations</b>
1. Etiology and classification of partial edentulism, examination	Lecture, systematic interactive presentation of informative	Oral presentations, computerized presentations.

of the patient for fixed prosthodontic treatment	material according to the analytical curriculum, using multimedia means, PowerPoint presentations	
2. Diagnosis. Paraclinical investigations in fixed prosthodontics		
3. Treatment planning for single and multiple fixed dental prostheses		
4. Periodontal considerations and preparatory treatment		
5. Fixed dental prostheses supported by dental implants		
6. Tissue control, impression-taking, occlusal registration in fixed prosthodontics		
7. Communication with the dental laboratory. Working models for fixed dental prostheses		
8. Designing fixed dental prostheses. Metal frameworks for metal-ceramic restorations		
9. Pontics and connectors in fixed dental prostheses		
10. Shade selection and esthetics in fixed prosthodontic treatment		
11. Fabrication of metallic, metal-ceramic, and all-ceramic fixed dental prostheses		
12. Resin-bonded fixed partial dentures, fixed prostheses as abutments for removable partial dentures		
13. Finishing and esthetic customization of fixed prostheses		
14. Cementation of prosthetic restorations, post-operative care and maintenance		
<b>Recent bibliography:</b> 1. Handnotes – Conf. Dr Sergiu Drafta, PhD, Prof. Alexandru Petre, PhD (digital format). 2. Rosenstiel, S.F., M.F. Land, and R.D. Walter, Contemporary fixed prosthodontics. 2023, Elsevier, St. Louis, Missouri, ISBN: 9780323720892. 3. Wiens, J., Fundamentals of Occlusion. ACP 2015, ISBN: 978-0-692-56523-0. 4. The Glossary of Prosthodontic Terms 2023: Tenth Edition. J Prosthet Dent, 2023. 130 (4 Suppl 1): p. e1-e3.		

8.2. Practical classes/ seminar	Teaching methods	Observations
1. Patient examination for restorations with fixed partial dentures	Presentation with didactic material or, as appropriate, direct clinical examples	The interactive and collaborative participation of students is emphasized in all diagnostics, clinical and laboratory stages of the practical class.
2. Diagnostic procedures (paraclinical) in fixed prosthodontic treatment		
3. Restorative treatment planning with fixed dental prostheses		
4. Preparatory treatment plan		
5. Prosthetic components of an implant system		
6. Gingival displacement, impression-taking, occlusal registration		
7. Laboratory order sheet for the fabrication of a fixed partial denture		
8. Designing a fixed partial denture		
9. Analysis of pontics and connectors of a fixed dental prosthesis		
10. Esthetic analysis of a fixed dental prosthesis		
11. Provisional bridges		
12. Preparations for a resin-bonded bridge, planning of a crown on an abutment tooth for a removable partial denture		
13. Finishing and esthetic customization of a crown		
14. Provisional and definitive cementation of fixed dental prostheses		
<b>Recent bibliography:</b> 1. Handnotes – Conf. Dr Sergiu Drafta, PhD, Prof. Alexandru Petre, PhD (digital format). 2. Rosenstiel, S.F., M.F. Land, and R.D. Walter, Contemporary fixed prosthodontics. 2023, Elsevier, St. Louis, Missouri, ISBN: 9780323720892. 3. Wiens, J., Fundamentals of Occlusion. ACP 2015, ISBN: 978-0-692-56523-0. 4. The Glossary of Prosthodontic Terms 2023: Tenth Edition. J Prosthet Dent, 2023. 130 (4 Suppl 1): p. e1-e3.		

## 9. Assessment

<b>Activity type</b>	<b>9.1. Evaluation criteria</b>	<b>9.2. Evaluation methods</b>	<b>9.3. Percentage of final grade</b>
<b>9.4. Lecture</b>	- Correctness of acquired knowledge and ability to correlate	<b>Written exam single/multiple-choice questions</b>	<b>85%</b>

	<ul style="list-style-type: none"> <li>- Review of recommended bibliography</li> <li>- Correct use of specialized terms</li> <li>- Accuracy of specialized knowledge regarding diagnostic and treatment principles specific to fixed prosthetic restorations</li> </ul>	<b>and/or essay and/or oral test</b>	
<b>9.5. Practical classes/ seminar</b>	<ul style="list-style-type: none"> <li>- Doctor-student relationship</li> <li>- Patient-student relationship</li> <li>- Practical skills</li> <li>- Correctness of clinical records</li> <li>- Technique of procedures performed</li> </ul>	<b>Seminar, oral presentations, evaluation of the patient's clinical file, evaluation of the performance</b>	<b>15%</b>
		<b>Practical exam</b>	<b>Pass/Fail</b>
<b>9.5.1. Individual project (if any)</b>	-	-	-
<b>Minimum performance standard</b>			
<ul style="list-style-type: none"> <li>- Designing the treatment plan with fixed partial dentures</li> <li>- Theoretical knowledge of the stages of treatment through fixed partial dentures</li> <li>- Carrying out at least 3 practical procedures from the internship program</li> </ul>			