



## DISCIPLINE SHEET

### 1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT III
1.4.	DISCIPLINE: PROFESSIONAL PRACTICE
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: PROFESSIONAL PRACTICE				
2.2.	Discipline code: MD04PP15EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure:				
2.6.	Practical activities tenure: Prof.dr. Bodnar Dana				
2.7. Year of study	IV	2.8. Semester	VIII	2.9. Evaluation (E/C/V)	C

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

I. University training						
3.1. Number of hours per week	40 hours	from which:	3.2. lecture		3.3. practical class/ seminar	40 hours
3.4. Total hours in the study curriculum	160 hours	from which:	3.5. lecture		3.6. practical class/ seminar	160 hours
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						
Additional documentation activity in the library, on online platforms						
Specific preparation activities for projects, practical classes, preparation of assignments, reports						
Preparation for presentations or evaluations, preparation for the final examination						
Tutoring activity						
Other activities						
3.7. Total hours of individual study						
3.8. Total hours per semester (3.4.+3.7.)						160
3.9. Number of credits						2

#### 4. Prerequisites (where appropriate)

<b>4.1. curriculum</b>	Fundamental knowledge acquired in preclinical subjects studied in previous years Notions of biochemistry, biophysics, histology, physiology Notions of morphology and physiology of the dento-maxillary apparatus Dental materials, dental prosthesis technology, treatment of coronal lesions by fixed single-tooth prostheses, notions of dental occlusion Notions of cariology and restorative therapy of dental lesions Notions regarding the materials and techniques for making coronal restorations Notions about dental instruments used in prophylactic and curative treatment
<b>4.2. proficiencies</b>	To know the materials and instruments used in oral and maxillofacial surgery To know the materials and instruments used in restorative dentistry To know the materials and instruments used in dental prosthetics To know the materials and instruments used in pedodontics

#### 5. Conditions (where appropriate)

<b>5.1. for lecture activity</b>	
<b>5.2. for practical class/ seminar activity</b>	Practical activities in the dental office

#### 6. Learning outcomes\*

<b>Knowledge</b>	<b>Skills</b>	<b>Responsibility and autonomy</b>
The student acquires, describes, analyzes, and evaluates specialized knowledge of the dento-maxillary apparatus, dental pathology, maxillary and oral tissues, dental and dentoalveolar anomalies, congenital malformations, as well as principles of diagnosis and treatment (preventive, interceptive, and curative) in dentistry, using both classical and digital methods/techniques	The student develops supervised clinical experience, progressively performing practical and clinical procedures during the years of study, ensuring acquisition of the professional competencies (knowledge, skills, and abilities) required for the dental profession.	The student integrates and applies specialized competencies necessary for the prevention, diagnosis, and treatment of anomalies and diseases of the teeth, jaws, and associated tissues. They critically evaluate, analyze, differentiate, interpret, and use the accumulated knowledge, skills, and responsibilities in order to acquire the competencies required for practicing dentistry.

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

<b>7.1. General objective</b>	Student knowledge of the particularities of diagnosis and surgical treatment. Student knowledge of the concepts that define dental lesions, etiopathogenesis, forms and clinical manifestations of carious/non-carious dental lesions, as well as therapeutic approach strategies. Accumulation of theoretical information and learning of clinical examination, diagnosis and treatment skills through fixed prostheses. Student knowledge of the particularities of diagnosis and treatment of dental caries in children and adolescents
<b>7.2. Specific objectives</b>	<b>Anesthesiology and Sedation in Dentistry</b> The student should know: - basic notions regarding the approach to the patient with oro-maxillo-facial surgical conditions (collection of data from the anamnesis, performing a general

	<p>objective and loco-regional examination), formulating the clinical interpretation of the presented pathology</p> <ul style="list-style-type: none"> <li>- correlations between the anamnesis, objective examination and paraclinical examinations for the confirmation/differential diagnosis of surgical diseases, their acute and chronic complications</li> <li>- local anesthesia technique and simple dental extraction technique, as well as the treatment (operating times and working technique) of accidents and complications of local anesthesia and dental extraction</li> </ul> <p><b>Restorative Odontotherapy</b></p> <ul style="list-style-type: none"> <li>- Knowledge of the etiology, clinical forms and treatment modalities of carious and non-carious dental lesions: dental wear (attrition, abrasion, erosion), traumatic lesions, dyschromia, dystrophic lesions.</li> <li>- knowledge of detection and diagnosis methods of dental lesions</li> <li>- knowledge of the treatment techniques of simple dental caries, according to the classic rules according to Black, as well as modern (non-invasive or minimally invasive) treatment techniques, based on enamel-dentin adhesion, adherent aesthetic materials and unconventional preparation means</li> <li>- Knowledge of the treatment methods of dental lesions in vital teeth through direct, semi-direct and indirect restoration techniques</li> <li>- Knowledge of the etiology and clinical forms of dental dyschromia, treatment methods through bleaching and/or direct/indirect veneering procedures</li> </ul> <p><b>Dental prosthetics</b></p> <ul style="list-style-type: none"> <li>- Acquiring the technique of clinical examination of the edentulous patient, with a view to fixed prosthetics</li> <li>- Specifying the diagnosis of edentulism, with a view to fixed prosthetics</li> <li>- Formulating therapeutic options through fixed prosthetics</li> <li>- Performing clinical procedures specific to treatment with fixed prosthetics: preparing the abutment teeth, measuring the prosthetic field, making the working model, recording the occlusion relationships of the trial and adapting the designed prostheses, final cementation, performing temporary prosthetic techniques in the office or / and through the dental laboratory.</li> </ul> <p><b>Pedodontics</b></p> <p>The student should know:</p> <ul style="list-style-type: none"> <li>- Dental eruption - order, chronology</li> <li>- Peculiarities of the diagnosis of simple and complicated caries in immature temporary and permanent teeth,</li> <li>- Methods of prophylactic treatment of dental caries; treatment (operating times and working technique) of simple and complicated caries in immature temporary and permanent teeth</li> </ul>
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## 8. Contents

<p><b>Anesthesia and Sedation in Dentistry</b></p>
<p>1. Indications and contraindications of local anesthetics and vasoconstrictor corrective substances used in dentistry, depending on the patient's status and the intervention to be performed</p>
<p>2. Knowledge and use of instruments for local and loco-regional anesthesia, for dental extraction, for methods assisting endodontic treatment and preprosthetic surgery, as well as for the treatment of periodontal infectious processes</p>
<p>3. Local and loco-regional anesthesia techniques in dentistry (topical anesthesia, infiltration, intraligamentary, peripheral truncal anesthesia)</p>
<p>4. Emergency attitude in local accidents and complications of loco-regional anesthesia in dentistry as well as in general accidents of loco-regional anesthesia in dentistry</p>
<p>5. Dental extraction techniques (for temporary, permanent, monoradicular and pluriradicular teeth; extraction of root remnants; extraction by alveolotomy; extraction with root separation) surgical methods assisting endodontic treatment and preprosthetic surgery, as well as the treatment of periosseous suppurations</p>

6. Surgical methods assisting endodontic treatment and preprosthetic surgery, as well as the treatment of periosseous suppurations
7. Emergency attitude in case of accidents and complications of tooth extraction
<b>Operative Dentistry</b>
1. Patient assessment, examination, diagnosis and treatment planning.
2. Overview of the dental instruments and equipment for exploring, tooth preparation and restoration, ergonomics data. Moisture control methods (instruments and techniques).
3. Noninvasive, microinvasive and minimally invasive treatment protocol of the carious and non-carious lesions
4. Direct treatment protocol of carious lesions
5. Direct treatment protocol of non-carious lesions
6. Dentinal hypersensitivity: etiology, clinical signs, positive and differential diagnosis, treatment
7. Dentin's sealing and protection of the pulp
8. Classification of the coronal restorative materials. Interim restorative materials. Adherent restorative materials (features and clinical implications)
<b>Dental prosthetics</b>
1. Methodology of examining the partially edentulous patient, establishing the diagnosis of partial edentulism, associated morpho-functional disorders and diagnosis of intermaxillary (occlusal) relationships
2. Design and staging of the prosthetic treatment plan, establishing the treatment solution through fixed partial prostheses (dental bridges)
3. Knowledge and use of the instrumentation used in dental prosthetics (abrasive instrumentation, instruments, equipment and auxiliary materials)
4. Methods of preparing abutment teeth for fixed partial prosthetics (preparations for cast full metal crowns, partial metal crowns, mixed metal-ceramic or metal-polymer crowns, all-ceramic crowns)
5. Methods of specific preparation of teeth with extensive coronal lesions in surface and depth; Coronal/coronoradicular restoration of endodontically treated teeth
6. Impression taking methods for fixed partial dentures (materials, techniques)
7. Methods for determining, recording and transferring the mandibular-maxillary occlusion relationship
8. Provisional and emergency prosthetics in partially edentulous patients treated with fixed partial dentures
<b>Pedodontics</b>
1. Tooth eruption, tooth recognition on models
2. Instruments, clinical examination and oral hygiene and gingival bleeding indices
3. Prophylactic treatment in children and adolescents
4. Diagnosis and treatment of simple caries
5. Preventive resin fillings
6. Diagnosis and treatment of pulpitis
7. Peculiarities of pulp treatment in immature permanent teeth (apexogenesis, apexification)
<b>Recent bibliography:</b>
1. Bucur A, Navarro-Vila C, Acero J, Lowry J. Compendiu de chirurgie OroMaxilo-Facială, Ed. QMed Publishing, Bucureşti, 2009.
2. Note de curs Anestezie și sedare în Medicina Dentară
3. Note curs Odontoterapie Restauratoare predat an IV
4. Manual de Odontoterapie Restauratoare (vol.II): Instrumentar utilizat în odontoterapia restauratoare. Marcov E.C. (coord.); Ed. Ars Docendi – Universitatea din Bucureşti, 2012.
5. Manual de Odontoterapie Restauratoare, Protocole de tratament al leziunilor dentare, E.C. Marcov, D.C. Bodnar, N. Marcov, Editura Universitară „Carol Davila”, Bucureşti, 2020
6. Sturdevant's Art and Science of Operative Dentistry" Andre V. Ritter, Lee W. Boushell, Ricardo Walter; 7th ed., Mosby Elsevier Inc.,2019
7. Suportul de curs – Protetică dentară
8. Rosenstiel, S.F., M.F. Land, and J. Fujimoto, Contemporary fixed prosthodontics. 2016, Elsevier,; St. Louis, Missouri
9. Shillingburg, H.T. and D.A. Sather, Fundamentals of fixed prosthodontics. 4th ed. 2012, Hanover Park, IL: Quintessence Pub
7. Suport teoretic de curs – Conf.dr. Mihaela Tănase

8. Pedodonție – Îndrumar Practic, Anca Maria Răducanu Ediția a II-a revizuită și adăugită, Ed. Bren, București, 2020.
9. Pedodonție vol.1 si 2, Rodica Luca Ed. Cerma, Bucuresti, 2003

## 9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
<b>9.4. Lecture</b>			
<b>9.5. Practical activities</b>	Assessment of the acquisition of practical concepts	Written exam with multiple choice questions and/or essay questions	100%
<b>9.5.1. Individual project (if any)</b>			
<b>Minimum performance standard</b>			
Minimum grade 5 on the written exam			
Basic knowledge of the clinical concepts necessary to establish the surgical diagnosis of OMF and the principles of surgical treatment			
Basic knowledge of the concepts regarding the diagnosis and treatment of carious/non-carious dental lesions			
Basic knowledge of the concepts regarding the diagnosis and treatment of partial edentulism through fixed partial dentures			
Basic knowledge of the clinical stages of performing dental treatments in children and adolescents			