



DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT DENTISTRY I
1.4.	DISCIPLINE PROSTHODONTICS
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: DENTAL OCCLUSION AND SINGLE TOOTH INDIRECT RESTORATIONS				
2.2.	Discipline code: MD03S04EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: Assoc. Prof. Cristina Bodnar, Prof. Alexandru Petre				
2.6.	Practical classes / seminar tenure: Lecturer Luminița Oancea, Lecturer Andrei Măcriș, Lecturer Mihaela Pantea, Lecturer Tudor-Claudiu Spînu				
2.7. Year of study	III	2.8. Semester	V	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	5	from which:	3.2. lecture	2	3.3. practical class/ seminar	3
3.4. Total hours in the study curriculum	70	from which:	3.5. lecture	28	3.6. practical class/ seminar	42
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						8
Specific preparation activities for projects, practical classes, preparation of assignments, reports						10
Preparation for presentations or evaluations, preparation for the final examination						10
Tutoring activity						2
Other activities						-
3.7. Total hours of individual study						80

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

4. Prerequisites (where appropriate)

4.1. curriculum	Notions of morphology and physiology of the dento-maxillary apparatus Dental materials, dental prosthesis technology
4.2. proficiencies	Dental modeling in plaster and wax Measures to prevent infections associated with dental treatments

5. Conditions (where appropriate)

5.1. for lecture activity	Amphitheater with projection system and writing board
5.2. for practical class/ seminar activity	<ul style="list-style-type: none"> - Dental units - Access to the dental laboratory - Laboratory with didactic models / simulators for prosthetic restorative dental treatments - Protective equipment: bathrobe, gloves, mask, goggles / visor - Telephone calls are not allowed - It is allowed to photograph clinical cases and therapeutic phases only with the consent of the teacher and the patient

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
Accumulation, 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 and gradually performing practical and clinical tasks necessary to ensure the professional skills specific to the profession.	Application of the specialized skills necessary for diagnostic and treatment activities regarding anomalies and diseases of the teeth, jaws and related tissues (TMJ, muscles).
Use of correct terminology.	Differentiating and interpreting the information accumulated during the years of study, in order to obtain the skills necessary to practice the profession.	Design of the treatment plan for single unit fixed restorations.
Knowledge of the clinical and laboratory stages in treatment with single unit fixed restorations.	Staging the mouth preparation and prosthetic treatment.	Analysis of the design of a single unit fixed restorations. and evaluation of a finished fixed restoration.
Knowledge of the algorithm for examining mandibular-	Applying specific techniques for clinical examination of the temporomandibular joint, the	Diagnostic imaging associated with coronary lesions.

maxillary occlusal relationships.	masticatory muscles and interarch relationships.	Identification of clinical situations requiring mouth preparation and establishment of interdisciplinary correlations aimed at dental, periodontal, surgical, orthodontic and endodontic treatments.
Knowledge of occlusal diagnostic criteria and therapeutic principles in occlusal treatment.	Obtaining alginate impressions and diagnostic models.	Establishing the occlusal diagnosis and formulation of possible therapeutic solutions. Ability to separate pathological situations requiring occlusal treatment and deviations from normal that require follow-up.
Knowledge of the concepts necessary for the diagnosis and treatment of crown lesions through direct restoration <i>versus</i> indirect restorations.	Applying specific techniques for preparing teeth for single unit fixed restorations.	Systematic planning of dental procedures.
Knowledge of the indications, contraindications, advantages and disadvantages of each type of single unit fixed restorations.	Performing dental tasks specific to treatment with single unit fixed restorations.	The ability to separate normal clinical situations from pathological ones and to indicate the need and type of therapeutic intervention and the type of single unit fixed restorations.

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	Accumulation of theoretical information and learning of clinical maneuvers of examination, diagnosis and treatment with unidentified fixed prostheses, and of theoretical knowledge and practical skills to examine dental occlusion.
7.2. Specific objectives	<ul style="list-style-type: none"> - Development of practical skills aimed at preparing teeth with dental lesions in the treatment with indirect fixed prostheses. - Learning the diagnostic impression and model fabrication. - Mastering the technique of examining the patient to assess the dento-periodontal status and to assess the dental occlusion, static and dynamic. - Development of clinical skills regarding the functional evaluation of the dento-maxillary apparatus and completion of the functional file. - Knowledge and application in practice of theoretical support for the formulation of diagnosis and therapeutic options for different types of dental lesions.

8. Contents

8.1. Lecture	Teaching methods	Observations
1. Fundamental concepts of dental occlusion part I -	Lecture, interactive systematic	Oral and digital presentations

terminology, morphophysiology	presentation	
2. Fundamental concepts of dental occlusion part II - biomechanics		
3. Clinical dental and occlusal examination		
4. Diagnostic procedures for single unit fixed restorations		
5. Dental articulators and other occlusion related diagnostic procedures		
6. Treatment planning for single unit fixed restorations		
7. Principles of tooth preparation		
8. All ceramic restorations		
9. The ceramic-veneered crowns		
10. High strength monolithic crowns		
11. The cast partial veneer crown, inlay, and onlay		
12. Restoration of the endodontically treated teeth		
13. Interim fixed restorations		
14. Dental occlusion and occlusion related pathology and treatment principles		

Recent bibliography:

1. Handnotes – Conf. Dr Cristina Bodnar, 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. Instruments, materials, equipment and procedures for the clinical examination, diagnosis, and management of patients with fixed dental prostheses PART I-instruments, materials	Lecture, interactive systematic presentation	Interactive and collaborative participation of students, in all diagnostic, clinical and laboratory stages during the practical classes
2. Instruments, materials, equipment and procedures for the clinical examination, diagnosis, and management of patients with fixed dental prostheses PART II-equipment / procedures		

3. Dental and occlusal examination		
4. Diagnostic procedures PART I-diagnostic impressions		
5. Diagnostic procedures PART II-diagnostic casts		
6. Dental articulators and other occlusion-related diagnostic procedures		
7. Preparation planning for single unit fixed restorations		
8. All ceramic preparation		
9. The ceramic-veneered crown preparation		
10. High strength monolithic crown preparation		
11. The cast partial veneer crown, inlay, and onlay preparations		
12. Restoration of the endodontically treated teeth		
13. Interim crown		
14. Occlusal equilibration		

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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	<ul style="list-style-type: none"> - Accuracy of the notions regarding examination, diagnosis and treatment with fixed unitary prostheses and examination of dental occlusion - Correct use of specialized terms 	Written exam type questions with answers and / or editorial and / or oral test	85%
9.5. Practical classes/ seminar	<ul style="list-style-type: none"> - Tooth preparation technique for fixed unit dentures - Diagnostic impression and model, provisional prosthesis using the copying technique - Correct occlusal analysis 	Seminar, oral presentations, evaluation of the patient's clinical file, evaluation of the performance	15%

9.5.1. Individual project (if any)	-	-	-
Minimum performance standard			
	<ul style="list-style-type: none"> - Designing the treatment plan with indirect fixed prostheses - Theoretical knowledge of the stages of treatment with indirect fixed prostheses - Performing the preparations provided in the analytical programme - Examination of the dental occlusion with the completion of the file related to the requirements provided in the analytical programme 		