



# CD 8.5.1 DISCIPLINE CURRICULUM

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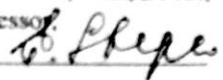
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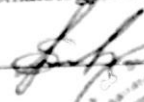
## FACULTY OF STOMATOLOGY STUDY PROGRAM 0911.1 STOMATOLOGY CHAIR OF STOMATOLOGICAL PROPAEDEUTICS „PAVEL GODOROJA”

APPROVED

at the meeting of the Committee for Quality Assurance and the evaluation of the Curriculum Faculty of Stomatology  
Minutes No. 2 of 13.02.2018  
Committee President, Phd., DMS., Associate professor  
Stepco Elena 

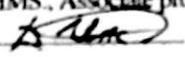
APPROVED

at the Council meeting of the Faculty of Stomatology  
Minutes No. 6 of 20.02.2018

Dean of Faculty of Stomatology, Phd., DHMS., Professor,  
Ciobanu Sergiu 

APPROVED

at the meeting of the chair of Stomatological Propaedeutics „Pavel Godoroja”  
Minutes No. 3 of 20.10.2017

Head of chair, Phd., DHMS., Associate professor  
Uncuța Diana 



## CURRICULUM

DISCIPLINE: **PARTIAL REMOVABLE DENTURE TECHNOLOGY**

**Integrated studies**

Type of course: **Compulsory discipline**

Chișinău, 2017



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### I. PRELIMINARIES

- *General presentation of the discipline: place and role of the discipline in the formation of specific competencies for professional development program.*

“Partial removable denture technology” is an indispensable part for the propaedeutics of prosthodontic dentistry and for modern dentistry.

The transition of students to clinical dentistry is performed by familiarizing them with the specifics of propaedeutics in prosthodontic dentistry. Basic steps include students’ learning the methodology mentioned in this compartment which are oriented to develop a clinical thinking of students for establishment of diagnosis and treatment plan. Nevertheless, attention is paid to the odontotechnology of partial dentures in dentistry, as well as the basic steps in the execution of this dental construction. The latter is an important step in training of specialists. This discipline also includes the accumulated knowledge in the technology of removable dentures with distinction of the main clinical and laboratory steps that are mandatory for a prosthodontic doctor. The prosthodontic doctor behavior during the technique of partial removable dentures is the base for development of future specialists taking into account the principles of occlusion, jaw’s biodynamics which are the fundamental basis of the removable prosthetics’ technology in the dental field.

#### *The aim (mission) of curriculum in professional training*

The partial removable denture technology aim is to integrate the accumulated knowledge of future dental doctors gained during the dental disciplines, to provide a better, inoffensive and more efficient dental care with respecting the principles of construction, according to the special requirements. In the same time, the methods of modeling denture’s wax pattern, the methods of packing, unpacking and other basic laboratory steps have the purpose to develop the skills and clinical thinking of students oriented to accumulation of competencies in determination of the optimal methods for diagnosis and treatment of the partial edentulous patients and the improvement of their life quality.

*Discipline teaching languages:* Romanian, Russian and English.

- *Beneficiaries:* 2<sup>nd</sup> year students, semester IV, Faculty of Stomatology.

### II. DISCIPLINE ADMINISTRATION

Discipline code		<b>S.04.O.039</b>	
Discipline name		<b>Partial removable denture technology</b>	
Responsible for discipline		<b>Bajurea Nicolae</b> , Phd, DMS., Associate professor. <b>Uncuța Diana</b> , Head of chair, Phd., DHMS., Associate professor	
Year	<b>II</b>	Semester	<b>IV</b>
Total number of hours, including:			<b>150</b>
Lectures	<b>17</b>	Practical courses	<b>17</b>



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Seminars	34	Individual work	82
Evaluation form	C	Number of credits	5

### III. THE TRAINING OBJECTIVES OF THE DISCIPLINE

- *At the level of understanding and knowledge:*

- ✓ To know the role of the main components of the removable prosthesis with metallic framework;
- ✓ To get acquainted with the main and auxiliary elements of the removable prosthesis with metallic framework ;
- ✓ To know the steps of the wax-up procedure of the metallic framework, making the preliminary model;
- ✓ To know the clinical aspects of the prosthetic field, the phases of the impression, the realization of the working casts;
- ✓ To have the components of the surveyor, to study the casts in the surveyor;
- ✓ To understand the steps of preparing the duplicate models;
- ✓ To know the modeling techniques of the wax pattern of the metallic component for the partial removable prosthesis with metallic framework;
- ✓ To know the modern techniques of impression, the methods of casting the alloys;
- ✓ To know the techniques of unpacking, machining, grinding and polishing the metallic component of partial removable prosthesis with metallic framework;
- ✓ To get acquainted with the parts of the partial removable prosthesis;
- ✓ To know the base's limits of the prosthesis, the anchoring elements, the technique of making the clasps from wire wifes;
- ✓ To know the technique of making occlusal bite rims;
- ✓ To know the methods to determine the occlusal registration;
- ✓ To get acquainted with the principles of placing the artificial teeth in the partial removable prosthesis;
- ✓ To know the evaluation criteria for wax pattern of the partial removable prosthesis;
- ✓ To know the stages of packing of the wax pattern of the partial removable prosthesis, of polymerization, the unpacking sequence and the methods of processing and polishing the prosthesis.

- *Application level:*

- ✓ To be able to distinguish the components of the partial removable prosthesis with metallic framework;
- ✓ To be able to distinguish the main and the auxiliary elements of the partial removable prosthesis with metallic framework;
- ✓ To be able to discern between the clinical and laboratory stages of the partial removable prosthesis with metallic framework, the elements of the prosthetic field, the preliminary models;
- ✓ To be able to analyze the aspects of the prosthetic field, the phases of functional impression of the prosthetic field, to make the cast of work;
- ✓ To be able to distinguish the components of the surveyor, to perform the study of the cast in a surveyor;
- ✓ To be able to perform the steps of preparing the duplicate casts;
- ✓ To be able to follow the modeling techniques for the wax pattern of the future metal component for partial removable prosthesis with metallic framework;
- ✓ To be able to carry out the modern techniques of impression, the methods of casting the alloys;
- ✓ To be able to carry out the techniques of unpacking, machining, grinding and polishing the metallic



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component of the partial removable prosthesis with metallic framework;

- ✓ To be able to distinguish the components of the partial removable prosthesis;
- ✓ To be able to draw the limits of the base of the prosthesis, the anchoring elements, to perform the technique of making the wipe wire clasps;
- ✓ To be able to make the occlusal rims patterns;
- ✓ To be able to determine the occlusal registration;
- ✓ To be able to carry out the principles of replacing the artificial teeth into the partial removable prosthesis;
- ✓ To be able to determine the criteria of evaluation of the wax pattern of the partial removable prosthesis;
- ✓ To be able to perform the packaging steps of the wax pattern of the partial removable prosthesis, the polymerization phases, the unpacking sequence and the polishing of prostheses;
- ✓ To be able to distinguish the clinical and laboratory stages of making, grinding and polishing injectable partial removable prosthesis.

### ***Integration level:***

- ✓ To possess the skills in knowing the elements of the partial removable prosthesis with metallic framework;
- ✓ To possess the skills in discerning the main and the auxiliary elements of the partial removable prosthesis with metallic framework;
- ✓ To possess the skills in knowing the clinical and technical stages of making the partial removable prosthesis with metallic framework, the elements of the prosthetic field, the preliminary casts;
- ✓ To possess the skills in knowing the clinical aspects of the prosthetic field, the stages of impression of the prosthetic field, to make the working cast;
- ✓ To possess the skills in distinguishing the components of the parallelograph, to perform the study of the model in a parallelograph;
- ✓ To possess the skills in following the steps of preparing the duplicate casts;
- ✓ To possess the skills following the modeling techniques for the wax pattern of the metal component for partial removable prosthesis with metallic framework;
- ✓ To possess the skills in carrying out the modern techniques of printing, the methods of casting the alloys;
- ✓ To possess the skills in carrying out the techniques of unpacking, machining, grinding and polishing the metallic component of the partial removable with metallic framework;
- ✓ To possess the skills in distinguishing the components of the partial removable prosthesis;
- ✓ To possess the skills in drawing the limits of the base of the prosthesis, the anchoring elements, to perform the technique of making the wipe wire clasps ;
- ✓ To possess the skills in making the occlusal rims patterns;
- ✓ To possess the skills in determining the occlusal registration;
- ✓ To possess the skills in carrying out the principles of replacing the artificial teeth into the partial removable prosthesis;
- ✓ To possess the skills in determining the criteria of evaluation of wax pattern of the partial removable prosthesis;
- ✓ To possess the skills in performing the packing steps of the wax pattern of the partial removable prosthesis, the polymerization phases, the unpacking sequence and the polishing of prostheses;
- ✓ To possess the skills in distinguishing the clinical and laboratory stages of making, the stages of the impression of prosthetic field and the particularities of the wax patterns, the techniques of packing, unpacking, machining, grinding and polishing the injectable partial removable prosthesis.



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### IV. PRECONDITIONS AND EXIGENCIES

The partial removable denture technology is a unitary structural and functional complex which includes the following abilities. The knowledge of the components of the removable prosthesis with metallic framework. The familiarization with the main and the auxiliary elements of the removable prosthesis with metallic framework. The acquaintance with the clinical and technical stages of making the partial removable prosthesis with metallic framework. The ability to perform the preliminary model. The making of the working model. The recognition of the surveyor components. The observation of the models in the surveyor. Perceiving the stages of model preparation for duplication. Possession of techniques modeling the wax model of the metallic component for the partial removable prosthesis with metallic framework. Understanding the modern techniques of printing, casting alloys. Possessing the techniques for unpacking, machining, grinding and polishing the metallic part of the partial removable prosthesis with metallic framework. Knowledge of the parts of the partial acrylic removable prosthesis. The knowledge of the limits of the denture base, the anchoring elements, the clasps making techniques from wire wipe. The understanding of the technique in making the templates with occlusion wax rims. The knowledge of methods in determining the occlusal registration. Possessing the principles in mounting the artificial teeth in the partial removable prosthesis. The knowledge of the evaluation criteria for the sample of the partial removable prosthesis. The ability to perform the modeling steps of wax pattern, the polymerization, the unpacking and the polishing of the prosthesis. Familiarization with the clinical-laboratory steps in making the injectable partial removable prosthesis of prosthetic field impression, particularities of working wax patterns, injectable technique, grinding and polishing.

### TOPICS AND ORIENTATIVE DISTRIBUTION OF HOURS

Nr. d/o	TOPICS	Number of hours			
		Cour ses	Sem i- nars	Pra- ctice	Indi vidu al
1.	<p><b>Partial removable prosthesis with metallic framework . Elements of the prosthesis clasps. Artificial teeth, saddles, main connectors, secondary connectors, the elements of maintenance, support and stabilization.</b></p> <p>The definition of partial dentition. Methods of treatment with partial removable prosthesis with metallic framework. Techniques in obtaining the preliminary model. Classification of the partial dentition by Kennedy. Indications for prosthetic treatment with partial removable prosthesis with metallic framework.</p> <p>Advantages of the partial removable prosthesis with metallic framework.</p> <p>Disadvantages of the partial removable prosthesis with metallic framework.</p>	1	2	1	5
2.	<p><b>Elements of maintenance, support and stabilization. The main and auxiliary.</b></p> <p>The components of the partial removable prosthesis with metallic framework. The sockets of the partial removable prosthesis with metallic framework., characteristic. The connecting elements between the saddle, dimensions. Placing the link between the saddle on the prosthetic field. Secondary connectors, feature. The feature of the anchorages, maintenance, support and stabilization. Ackers Clasps, feature, indications. Hooks, Dried Roach, Feature, Directions.</p>	1	2	1	5
3.	<b>Clinical and technical stages of the partial removable prosthesis</b>	1	2	1	5



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Nr. d/o	TOPICS	Number of hours			
		Cour ses	Sem i- nars	Pra- ctice	Indi vidu al
	<p><b>clasps. Preliminary impression of the prosthetic field. Realization of the preliminary model.</b> Clinical and technical stages for manufacturing the partial removable prosthesis with metallic framework. Materials used in the preliminary impression of the prosthetic field. The sequence of preliminary impressions of the prosthetic field. Preliminary model implementation technique. Materials used to make the preliminary model.</p>				
4.	<p><b>Clinical aspects of the prosthetic field. Definitive or functional impression. Making the casts. Test control.</b> What is prosthetic field and its characteristic in partial edentia depending on the form of the edentia. The characteristic of the muco-bone support. The morphology of the crown's teeth. Materials used in functional impression of the prosthetic field. Consequences of the functional impression. Materials used in making the final model. The technique of performing the definitive model.</p>	1	2	1	5
5.	<p><b>Surveyor. The study of the model on the surveyor. The metallic components of the partial removable prosthesis with metallic framework.</b> The components of the surveyor. Definition: insertion and disassembly axle after E.Gavrilov and after the USMF "N.Testemițanu" school. Variations of insertion axes and disinfection of the prosthesis. Free method of choice and appreciation of average inclination of the pins of the teeth. Describe the method of fixing the chosen the position of the insertion. Definition: the anatomical and prosthetic contour. Name the variations of topography of the prosthetic contour. What are the areas that divide the tooth of the prosthetic contour. For what purpose and by what methods the retention areas are determined.</p>	1	2	1	5
6.	<p><b>Preparing the duplicate model. Folding and duplicating the wax pattern.</b> Indicate the purpose of preparing the duplicate model. The equipment required for preparing the duplicate model. The tools needed to prepare the duplicate model. The materials used to prepare the duplicate model. Technology in preparing the functional duplicate model. The folding technique in the retention areas. Areas that require folding at the upper jaw. Areas that require jaw folding. Methods of modeling the duplicate.</p>	1	2	1	5
7.	<p><b>Modeling the wax pattern of the metallic component.</b> The technique of modeling of the wax pattern partial removable prosthetic with metallic framework. Modeling technique. Partial removable prosthetic with metallic framework based using the calibrated wax method. Variety, composition and attributes of dental wax used in modeling,</p>	1	2	1	5
8.	<p><b>Techniques in making the metallic frame. Performing the printing. Casting.</b> The characteristic of the alloys used to make the clasps' prosthesis. List the technological steps of obtaining the partial removable prosthetic with metallic framework through casting. Methods of removing molded parts from</p>	1	2	1	5



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Nr. d/o	TOPICS	Number of hours			
		Courses	Seminars	Practice	Individual
	casting channels. Testing the wax pattern of the future metallic framework of prosthesis.				
9.	<p><b>Unpacking. Machining, grinding and polishing</b>  <b>The metallic components. The partial removable prosthetic with metallic framework on the model. Test control.</b></p> <p>Unpacking techniques. Characteristic. Devices used for finishing the dentures. Tools used for working and polishing the denture. Materials used in processing and polishing the denture. Ultrasonic cleaning.</p>	1	1	1	2
10.	<p><b>Partial removable prosthesis. Components.</b></p> <p>Definition of "partial edentia". The etiology. Classification of partial edentia by Kennedy. Elements of the partial edentulous prosthetic field. Characteristic. Directions to partial prosthetics therapy with partial removable prosthesis. Impressions. Criteria for classification the impressions. Impression trays. Varieties. Stages of anatomical impression. Impression materials. Classifications. Nominations. The technique of making the model for making partial removable prostheses. Requirements.</p>	1	2	1	5
11.	<p><b>The limits of the denture base. Anchoring elements. The technique of making the wibe wire clasps.</b></p> <p>Characteristics of the partial removable prosthesis components. Artificial teeth, variety. Characteristics of the anchoring elements, retaining and stabilizing the partial removable prosthesis. Variations of wibe wire clasps used to make the partial removable dentures. Characteristic. The technique of making the cervico-occlusal clasps. Equipment, tools. Feature of special anchoring, holding and stabilizing systems used to make the partially acrylic removable prosthesis. Limits of the base of the partial removable prosthesis on the mandible. The limits of the partial removable prosthesis base to the maxilla. Draw the necessary lines for the installation of artificial teeth in the partial removable prosthesis. The criteria for choosing the artificial teeth for applying the anchoring, maintenance and stabilization elements. Clasps lines. Importance.</p>	1	2	1	5
12.	<p><b>Making templates with occlusal rims for recording centric maxillo-mandibular relations.</b></p> <p>Dental wax and its varieties. Dental wax for making the template with occlusal borders. Composition. Arguments for the need of making the template with occlusal borders. Equipment, tools and materials needed to make the template with occlusion at the maxilla and jawbone. The dimensions of the occlusion edges to the maxilla. Requirements to the occlusion curve. The dimensions of the mandible occlusion. Requirements to the occlusion curve. Need and technique strengthening the template with occlusion curves in the maxilla and mandible. Requirement of the template with occlusion border on the maxilla and mandible.</p>	1	2	1	5
13.		1	2	1	5



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Nr. d/o	TOPICS	Number of hours			
		Cour ses	Sem i- nars	Pra- ctice	Indi vidu al
	<p><b>Determination of centric intermedia or centric occlusion relations. Simulators and molding of models. Test control.</b></p> <p>The notion of "occlusion". Varieties. Definition of "centric occlusion". Definition of "centric intermaxillary relations". Definition of "mandible posture". Method of determination. Definition of vertical occlusion. Methods of determination. The characteristic of the 3 clinical situations of centric occlusion or centric intermaxillary relations. Varieties of physiological and pathological occlusion. Characteristic. Simulators: Variety and principles underlying the structure. Components. Principles and methods of fixing the models in simulators.</p>				
14.	<p><b>Mounting the artificial teeth in the acrylic removable prosthesis.</b></p> <p>Artificial teeth, varieties, characteristic. Advantages and disadvantages of teeth made from acrylic . Advantages and disadvantages of porcelain teeth. Principles of choosing the artificial teeth for fitting into the partially acrylic removable prosthesis. General principles of fitting artificial teeth into the partial acrylic removable prosthesis to the mandible and maxilla. Rules in mounting the teeth in the partial acrylic removable prosthesis at the mandible; and maxilla. The machine, the tools needed to mount the teeth. Indications and artificial teeth fitting technique.</p>	1	2	1	5
15.	<p><b>Partial removable prosthesis layout sample. Final modeling.</b></p> <p>Arguments of the necessity to perform the partial prosthesis model and its consecutive. Equipment, tools and materials necessary for the final modeling of the partial prosthesis model. The technique of modeling the definitive part of the partial prosthesis layout and those requirements. The importance of definitive modeling of the partially acrylic removable prosthesis. Possible modeling errors. Final version of the acrylic partial mobilization motif.</p>	1	2	1	4
16.	<p><b>The technique of packaging the prosthesis layout. The polymerization. Unpacking. Processing and polishing the prosthesis.</b></p> <p>Methods of packaging the partial removable prosthesis. Characteristic. Materials for impression and techniques. Requirements to the wax pattern obtained. The technique of isolate the models and the necessary materials. Hot, light - acryl, and cure acryl. Composition. Destination. Techniques of introducing the acrylate in the flask. The polymerization cicle. Possible errors in polymerization. Unpacking technique of the partial denture. Unpacking tools, hints and technique used for the partial acrylic removable denture. Tools and materials used for of the partial acrylic removable prosthesis. Tools and materials used to grind the partial acrylic removable prosthesis. The equipment, tools and materials necessary for polishing the partial acrylic removable prosthesis. The technology of polishing the base of the partial acrylic removable prosthesis. The technology of polishing the denture's elements of the partial acrylic removable prosthesis. The composition of the polishing powder of the base of the prosthesis. Composition of the polishing</p>	1	2	1	4





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Nr. d/o	TOPICS	Number of hours			
		Courses	Seminars	Practice	Individual
	paste.				
17.	<p><b>Partial removable injectable prosthesis. Test-control.</b>            Elements of partial edentulous prosthetic field. Characteristics of the anchoring, maintaining and stabilizing parts of the partially removable injectable prosthesis.            Directions for partial dentition therapy with partial removable injectable prostheses. Impressions. Criteria for classifying the impressions. Impression spoons. Varieties. Stages of anatomical impressions. Impression materials. Classifications. The technique of making the model. Materials. Requirements to the model made for making the removable partial acrylic prosthesis. Component's characteristics of the partial removable injected prosthesis. Artificial teeth, variety. Varieties of acrylic used to make the partial removable injectable prosthesis.            Characteristic.. Equipment, tools. Packaging techniques. Injection techniques. Mechanical processing and polishing the partial removable injectable removable prosthesis.</p>	1	2	1	4
<b>Total</b>		<b>17</b>	<b>34</b>	<b>17</b>	<b>82</b>

### V. REFERENT OBJECTIVES AND CONTENT UNITES .

Objectives	Content units
<p><b>The technology of making the partial removable prosthesis with metallic framework. Elements of the partial removable prosthesis with metallic framework. Aspects of the prosthetic field.</b></p>	
<ul style="list-style-type: none"> <li>✓ to know the definition of partial dentition;</li> <li>✓ to know the components of the partial removable prosthesis with metallic framework;</li> <li>✓ to know the main and auxiliary elements of the removable partial prosthesis;</li> <li>✓ to know the clinical and technical stages of making the removable partial prosthesis with metallic framework, the stage of the impression prosthetic field, the realization of the preliminary model.</li> <li>✓ to know clinical and technical stages of manufacturing the partial removable prosthesis with metallic framework.</li> </ul>	<p>The notion of partial edentia            Methods of treatment with the removable partial prostheses clasps.            Techniques of obtaining the preliminary model.            Classification of the partial edentia by Kennedy.            Indications for prosthetic treatment with partial removable prostheses.            Advantages and disadvantages of partial removable prosthesis with metallic framework.            Clinical and technical stages of manufacturing the partial removable prosthesis with metallic framework.</p>
<p><b>Techniques for making the metallic framework of partial removable prosthesis. Surveyor. Components. Designing the metallic framework of partial removable prosthesis.</b></p>	
<ul style="list-style-type: none"> <li>✓ to know the components of the surveyor;</li> </ul>	



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Objectives	Content units
<ul style="list-style-type: none"> <li>✓ the study of the model in the surveyor.</li> <li>✓ to know the stages of model preparation for duplication; to know the anatomic-topographical peculiarities of the temporomandibular joint;</li> <li>✓ to know the techniques of modeling the wax in the model of the metal component for partial removable prosthesis with metallic framework;</li> <li>✓ to know the modern techniques of realization the pattern, casting methods of alloys;</li> <li>✓ to know the techniques of unpacking, machining, grinding and polishing the metallic component of the partial removable prosthesis with metallic framework.</li> </ul>	<p>The surveyor, the components.            Definition: path of insertion by E.Gavrilov and by the USMF school            "N.Testemițanu". Variations of insertion axes and disinsertion of the prosthesis. Free method of choice and the appreciation of the average inclination of the teeth.            Describe the method path of insertion for reproduction in surveyor.            Definition: anatomical and prosthetic contour.            Know the topographical varieties of the prosthetic equator.            In which areas is the tooth divided by the tooth contour.            For what purpose and by what methods are the areas determined to be retentive.            In what order is the design of the metallic framework of the partial removable prosthesis.</p>
<b>The technology of performing the partial removable prosthesis. The components of the partial removable prosthesis. Clinical aspects of the prosthetic field.</b>	
<ul style="list-style-type: none"> <li>✓ to know the clinical aspects of the prosthetic field, phases of functional impression of the prosthetic field, working model;</li> <li>✓ to know the components of the partial removable prosthesis;</li> <li>✓ to know the limits of the denture base, anchoring elements, technique in making of wire clasps;</li> <li>✓ to know the technique of making the templates with occlusion rims;</li> <li>✓ to know the methods of determining a centric and middle intermaxillary relations gyropne mode in simulators;</li> <li>✓ to know the principles of replace the artificial teeth in the partial removal prosthesis;</li> <li>✓ to know the stages of the model packaging, phases of polymerization, consecutivity of unpacking,</li> <li>✓ to know processing methods and polishing the prosthesis.</li> </ul>	<p>Elements of the partial prosthetic field.            Indications for partial prosthesis therapy with partial removable prostheses.            Impressions. Criteria for classifying the impressions.            Impressions trays. Varieties. Anatomical steps of impression. The technique of making the model for partial removable prostheses. Requirements.            Equipment, tools and materials needed at making the template with occlusal rims at maxilla and mandible.            The dimensions of the occlusion rims at the maxilla.            The dimensions of the mandible occlusion rims.            Methods of packing the partial prosthesis layout.            Characteristic. Partial denture's unpacking technique.            The technology of polishing the base of the partially removable acrylic prosthesis.            The technique of polishing the prosthesis.</p>
<b>Technology of performing the injectable partial removable prosthesis. Components of a injectable partial removable prosthesis. Aspects of the prosthetic field.</b>	
<ul style="list-style-type: none"> <li>✓ to know the clinical aspects of the prosthetic field; steps in performing the functional impression; working on the</li> </ul>	<p>Elements of the prosthetic field.            Indications for partial prosthesis therapy with</p>



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Objectives	Content units
<p>realization of the model;</p> <ul style="list-style-type: none"> <li>✓ to know the components of the partially removable injected prosthesis;</li> <li>✓ to know the denture base's limits, anchorages;</li> <li>✓ to know the clinical and technical stages in making the injectable removable prosthesis, the stages of the field impression, the particularities of the realization working patterns,</li> <li>✓ to know the techniques of modeling the wax model for removable injectable prosthesis;</li> <li>✓ to know the technique of making the templates with occlusion rims;</li> <li>✓ to know the methods of determining the centric and middle intermax relations</li> <li>✓ to know the principles of fitting the artificial teeth in the removable injectable prosthesis;</li> <li>✓ to know the criteria of evaluation the sample model of the implanted removable prosthesis;</li> <li>✓ to know the stages of the model packaging, the phases of injection, consecutivity of unpacking,</li> <li>✓ to know the techniques of unpacking, mechanical machining of the removable injectable prosthesis;</li> <li>✓ to know the methods of processing and polishing the injectable partial removable prosthesis.</li> </ul>	<p>injectable partial removable prosthesis. Impressions. Criteria for classification impressions.</p> <p>Impressions trays. Varieties.</p> <p>Anatomical steps of impression. Imprinting materials. The technique of making the model for partial removable injectable prostheses.</p> <p>Requirements.</p> <p>Equipment, tools and materials needed at making the template with occlusal borders at maxilla and mandible.</p> <p>The dimensions of the occlusion rims of the maxilla.</p> <p>The dimensions of the mandible occlusion rims.</p> <p>Methods of packaging the injectable partial removable prosthesis. Characteristic.</p> <p>Injectable techniques. Acrylates. Varieties.</p> <p>The printing and the technique's peculiarities.</p> <p>Requirements of the obtained pattern.</p> <p>Partial denture's unpacking technique.</p> <p>Technology of processing the base of the partial removable injectable prosthesis</p> <p>The technique of polishing the partial removable injectable prosthesis.</p>

### VI. PROFESSIONAL SPECIFIC (PS) AND TRANSVERSAL COMPETENCES (TC) AND STUDY OUTCOMES

#### Professional competencies specific (PCS)

**SC1:** Knowing the notion of partial edentia; components of the partial removable prosthesis with metallic framework; of the main and auxiliary elements of the partial removable prosthesis with metallic framework, the steps of taking an impression, make a model.

**SC2:** Knowing the placement of the link between the saddle on the prosthetic field, the secondary connectors, the features of anchoring, holding, support and stabilizing elements, Ackers, Roach clasps, indications.

**SC3:** Knowing the components of the surveyor, path of insertion by E. Gavrilov and by USMF "N.Testemițanu" school, the free choice method, and the appreciation of the average inclination of the teeth, the topography the anatomical and prosthetic contour, the areas that divide the prosthetic contour,



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the purpose, and by what methods is determined the retention area, the order of drawing on the prosthesis metallic framework.

**SC4:** Knowing the purpose of preparing the model for duplication, the equipment needed for preparing the duplicated model, the necessary tools for preparing the duplicated model, the technique of determining the retention areas.

**SC5:** Knowing the parts of the partial removable prosthesis with clasps, characteristics of the anchors, retaining and stabilizing the partial removable prosthesis, the wire clasps used to make the partial removable prosthesis, the necessary lines for the fitting of artificial teeth into the partial removable prosthesis, the criteria of choosing the tooth pillars for the application of the anchoring, retaining and stabilizing elements, clasps lines.

**SC6:** Knowing the elements of partial prosthetic, indications for therapy in partial edentation therapy For partial injectable partial removable prostheses, criteria of the impression classification, impression trays, anatomical impressions, modeling technique, model requirements made for the manufacture of partial removable prostheses, artificial teeth varieties, the clinical and technical stages of making the injectable partial removable prostheses.

### **Transverse competencies (skills) (TC)**

**TC1:** Applying professional assessment standards, acting according to professional ethics, as well as respecting the legislation in force. Promoting logical reasoning, practical applicability, assessment and self-assessment in decision-making.

**TC2:** Performing activities and exercising the specific roles to teamwork within the chair of propedeutic dentistry. Promoting the spirit of initiative, dialogue, cooperation, positive attitude and respect for others, empathy, altruism and continuous improvement of their own activities;

**TC3:** Systematically assessing of personal skills, of the role and expectations, applying self-assessments for learned processes, acquired skills and professionalism needs, effective use of language skills, knowledge in informational technologies, research and communication skills, in order to provide qualified services and adaptation to the dynamics of health policy requirements and personal and professional development.

### **Study finalizations**

#### **At the end of the course, the student will be able to:**

- to know the clinical and technical stages of the partial removable prosthesis with metallic framework, the stages of the imprinting the prosthetic field, the preliminary model;
- to know the components of the surveyor, to study a model in the surveyor;
- to know the stages of preparing the duplicate model;
- to know the techniques of unpacking, machining, sanding and polishing the metallic component of the partial removable prosthesis with metallic framework;
- to know the elements of the partial removable prosthesis;
- to know the principles of artificial teeth mounting in the partial removable prosthesis;
- to know the stages of packing of the model, the stages of polymerization, the unpacking sequence, methods of processing and polishing the prosthesis;
- to know the clinical and technical stages of making the injectable partial removable prosthesis,
- the stages of the prosthetic field, the particularities of the wax patterns, etc.

### **VIII. STUDENT'S SELF-TRAINING**

Nr.	Expected product	Implementation strategies	Assessment criteria	Implementation terms
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Nr.	Expected product	Implementation strategies	Assessment criteria	Implementation terms
1.	Working with informational sources	Reading the lecture or the material in the manual on the subject. Reflecting on the topic in the questions. Knowing and selecting additional information sources on the topic. Reading the text carefully and describe the essential content. Wording of generalizations and conclusions regarding the importance of the theme / subject.	<u>The ability to extract the essentials.</u> Interpretative skills. The ability to analyze and communicate the material accumulated on its own.	During the semester
2.	Solving case problems	Solving case problems, with argumentation of conclusions at the end of each practical lessons. Verification of the finalities and appreciation of their achievement. Selection of additional information, using electronic addresses and additional bibliography.	The quality of solving problems of situation and clinical case, the ability to formulate and interpret clinical and paraclinical data. Ability to analyze selected information from national and international professional websites.	During the semester
3.	Appreciation of indications for radiographic examination	The student should study the peculiarities of making the removable prostheses and convince himself about the need for knowledge of each type of removable prosthesis.	Assessing the accuracy of the information described by the student.	During the semester
4.	Preparing the project	Students will prepare information on the selected topic from the Thematic Plan with schematic and graphics rendering in Power Point.	Evaluation of the quality of the selected material, the design of the project and the ability to reproduce the information.	During the semester

### VII.METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING-ASSESSMENT

#### ✓ Teaching and learning methods used

In the teaching process of the discipline “partial removable denture technology” different teaching methods are used, oriented towards the efficient acquisition and achievement of the objectives of the didactic process. The course provides lectures, seminars, practical works and individual work. Courses are held in the third semester by the course owner (titular). The following forms of training are used in the practical work: frontal, individual activity, brainstorming sessions, group discussions, case studies in community pharmacies,



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case study. As a teaching aid, the specialized manuals are available in the university library, the methodological recommendations of the department's staff, tables, schemes, information sources in electronic format, national and international professional websites, etc. are available. Students receive individual assignments that are presented for group discussions, which subsequently assess the quality of individual work and practical skills. In order to acquire the didactic material and teambuilding, during the semester the students perform a mini-research in the field, the results of which are presented at the seminars and practical lessons organized in the last month of the semester.

Recommended *learning* methods are: *learning* theoretical *material* after lecture and manual; *observation* - identifying the characteristic features of doctor-patient communication; *analysis* - in the use of clinical and paraclinical examination methods of patients, as well as methods and stages of prevention, asepsis and antisepsis; *comparison* - analysis by comparison of the methods of collecting the anamnesis, of the paraclinical examination methods according to their advantages and disadvantages; *elaboration of the algorithm* - selection of the mandatory elements and elaboration of the patient consultation algorithm; *modeling* - identifying and selecting the elements necessary for modeling the situations when consulting patients, formulating the conclusions, argumentation and making the final decision.

✓ **Applied teaching strategies / technologies** (*specific to the discipline*)

Face-to-face, individual, brainstorming, group discussion, clinical case analysis, teambuilding, clinical exam simulation, mini-research, comparative analysis.

✓ **Methods of assessment** (*including the method of final mark calculation*)

**Current:** Current checks during seminars and practical lessons, 4 test controls in writing. For the individual work done during the semester, the student is evaluated, the grade being included in totals. At the end of the semester, based on the grades from the totals, the average annual score is calculated.

**Final:** The course ends with a colloquium.

### Method of mark rounding at different assessment stages

Intermediate marks scale (annual average and mark at the colloquium differentiated)	National Assessment System	ECTS Equivalent
<b>1,00-3,00</b>	<b>2</b>	<b>F</b>
<b>3,01-4,99</b>	<b>4</b>	<b>FX</b>
<b>5,00</b>	<b>5</b>	<b>E</b>
<b>5,01-5,50</b>	<b>5,5</b>	
<b>5,51-6,00</b>	<b>6</b>	
<b>6,01-6,50</b>	<b>6,5</b>	<b>D</b>
<b>6,51-7,00</b>	<b>7</b>	
<b>7,01-7,50</b>	<b>7,5</b>	<b>C</b>
<b>7,51-8,00</b>	<b>8</b>	
<b>8,01-8,50</b>	<b>8,5</b>	<b>B</b>
<b>8,51-8,00</b>	<b>9</b>	



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Intermediate marks scale (annual average and mark at the colloquium differentiated)	National Assessment System	ECTS Equivalent
<b>9,01-9,50</b>	<b>9,5</b>	<b>A</b>
<b>9,51-10,0</b>	<b>10</b>	

***Note:** Absence on colloquium differentiated without good reason is recorded as "absent" and is equivalent to 0 (zero). The student has the right to have two re-examinations.*

### **VIII. X.RECOMMENDED LITERATURE:**

#### *A. Compulsory:*

1. Lecture materials.
2. V. Nicolae Proteza scheletată în reabilitarea edentației parțiale. Ediția a II-a revizuită și adăugită. Sibiu, 2008, pag. 11-269.
3. Tony Jonson, David G.Patrick, Christopher W.Stokes, David G. Wildgoose and Duncan J. Wood Basics of Dental Technology: A Step by Step Approach, SUA, 2012, pag. 65-77.
4. I. Postolachi Protetica dentară. Chișinău, 1993, pag. 193-274.
5. В. Н. Трезубов, А. С. Щербаков, Л. М. Мишнев. Ортопедическая стоматология, Санкт-Петербург, 2002, стр. 215-280.

#### *B. Additional*

6. V. Nicolae, Norina Forna, Gabriela Ifteni. Clinica și terapia edentației parțiale intercalate reduce. Editura Apollonia- Iași, 2001, pag.367.
7. Лебеденко И. Ю., Перегудов А. Б., Глебова Т. Э., Лебеденко А. И. Телескопические и замковые крепления зубных протезов, Москва - 2002, стр. 697.