

**Thematic plan of seminar-type classes  
in discipline " Propedeutic of Dental Diseases "  
for students 2024 year of admission  
under the educational program 31.05.03 Dentistry,  
specialisation (profile) Dentistry  
Specialist's degree  
form of study full-time  
for the 2026-2025 academic year**

<b>№</b>	<b>Thematic blocks</b>	<b>Hours (academic)</b>
<b>2 semester</b>		
	<b>“Prosthetic Dentistry”</b>	
1.	Organization and equipment of the prosthetic dentistry department. Hygiene requirements. Safety measures. Organization and equipment of the dental technician laboratory. Hygiene requirements. Safety measures	4
2.	The anatomy and functional structure of teeth crowns and dentitions, age aspects. Anatomical features of maxillary and mandible incisors, canines . Incisors modeling from gypsum	4
3.	Anatomical features of maxillary& mandible premolars. Premolars modeling from gypsum.	4
4.	Anatomical features of maxillary& mandible molars. Molars modeling from gypsum	4
5.	Occlusion. Morphological and functional characteristics of occlusion types. Articulation. Mandibule biomechanic. Patient examination in the prosthetic dentistry. Patient questioning and oral cavity examination. Patient history filling. Additional investigations. Kennedy classification	4
6.	Types of crowns. Abrasive instruments, handpieces. Teeth preparation technique. Pain prevention concept. Tooth preparation for swaged crowns on phantoms	4
7.	Tooth preparation for different types of crowns with the shoulder Tooth preparation for plastic, cast crowns. on phantoms	4
8.	Impression and cast materials, classification ,characteristics.. Impression trays Impression types. Taking impressions from Phantom jaws/ Pouring plaster models(casts)	4
9.	Types of dental waxes for wax up technique. Crown wax modeling technique for swaged crowns. Crown wax modeling technique for cast crown	4
10	Basic materials for making crowns (alloys, plastic, ceramic) - composition,characteristics .Luting materials .	4

	<b>“Therapeutic Dentistry “</b>	
1	The aim of Discipline « Propedeutic of Dental Diseases . Organization of the dental clinic, therapeutic dental office. Dental office equipment.. Types and working principles of dental units and handpieces. Dental ergonomics. Hygiene requirements	4
2	Dental instruments, classification ,characteristics.ISO standard. Devices for saliva isolation. Safety measures Disinfection, sterilization of dental instruments and dental units. Prevention of iatrogenic and infection diseases (AIDS, hepatitis).	4
3	The clinical anatomy of tooth hard tissues. Age aspects. Anatomical characteristics of primary and permanent teeth. The clinical histology of tooth hard tissues. Age aspects. Histological characteristics of posterior primary and permanent teeth.	4
4	Patient examination in the therapeutic dental clinic. Patient questioning and oral cavity examination. Patient history filling. Additional investigation. X-ray interpretation Caries , classifications. The principles and steps of the carious cavity preparation according to Black classification	4
5	Carious cavity class 1 according to Black classification The principles of the carious cavity preparation class 1 according to Black classification Carious cavity preparation class 2 according to Black classification The principles of the carious cavity preparation class 2 according to Black classification . Additional platform. Mistakes.	4
6	Carious cavity preparation class 3 according to Black classification The principles of the carious cavity preparation class 3 according to Black classification . Mistakes Carious cavity preparation class 4 according to Black classification The principles of the carious cavity preparation class 4 according to Black classification .Mistakes. Parapulpal pins.	4
7	Carious cavity preparation class 5 according to Black classification The principles of the carious cavity preparation class 5 according to Black classification .Mistakes. Anesthesia in therapeutic dentistry Filling materials. Classification. Temporary filling materials. Composition and characteristic . Indications for use.	4
8	Permanent filling materials. Classification. Cements (zinc –phosphate cement) ,). Composition , characteristic. Indications for use . Cement (. polycarboxylate cements, Glass ionomer cements). Composition , characteristic Indications for use .	4
9	Silicate and silicaphosphate cements. Composition, characteristic .. Indications for use.The technique.of mixing cements. Dental Amalgam. Safety measures. Composition , characteristic .The technique of mixing and filling. Indications for use.	4
<b>3 semester</b>		
<b>“Prosthetic Dentistry”</b>		

1	Clinical and laboratory stages of making swaged crowns. Taking impressions/ Pouring casts . Crown wax modeling technique The laboratory procedures of making swaged crown (stamping ,heat treatment, bleaching, polishing). Crown fitting, cementation.	4
2	Clinical and laboratory stages of making cast crowns, Wax modeling cast crowns on the plaster cast.	4
3	Clinical and laboratory stages of manufacture of metal-ceramic crowns Teeth preparation for metal-ceramic crowns on phantoms	4
4	Clinical and laboratory stages of manufacture of all-ceramic crowns, ceramic veneers Teeth preparation for all-ceramic crowns, ceramic veneers on phantoms	4
5	The types of precious impressions Methods of taking impressions, materials Inlays, types, index of the dental occlusion surface destruction. Cavity preparation for inlays (I-V classes) and inlays' modeling technique (I-V classes).	4
6	Types of the post retained restorations, characteristics. Methods of post and core restorations fabricating Tooth preparation for post and core restorations. Modeling post and core restorations on phantoms	4
7	Clinical and laboratorial stages of cast bridges production Clinical stages of cast bridges production . Abutment teeth preparation for cast crowns on phantoms.	4
8	Final test of the 3 semester	2

	<b>“Therapeutic Dentistry “</b>	
1	Types of caries. Medium and deep caries. Methods and stages of treatment . Types of dental Liners - therapeutic, isolating. Classification. Composition , characteristic. Indications for use. Mixing and filling techniques. Mistakes	4
2	Medium and deep caries. Methods and stages of treatment The technique of filling 1,5 cavity classes	4
3	Accessories and instruments for restoration of teeth with different filling materials.. The technique of 2 class cavities filling. Contact point. The way of restoration. Application of cofferdam, matrices,wedges	4
4	The technique of 3 class cavities filling. The technique of filling class 3 carious cavities with medium and deep caries Filling class 3 carious cavities on a phantom	4
5	The technique of 4 class cavities filling The technique of filling class 4 carious cavities with medium and deep caries Filling class 4 carious cavities on a phantom	4
6	Composite chemical curing filling materials. Classification. Composition and. properties The technique of mixing and filling. Light-cured filling materials. Classification. Composition and. properties The technique of application	4
7	Periodontium. Structure, functions. Types of dental calculus. Technique of removal of supragingival dental calculus on phantom. Instruments	4

8	Final test of the 3 semester	2
4 semester		
<b>“Prosthetic and Surgical Dentistry”</b>		
1	Clinical and laboratorial steps of manufacturing fixed soldered bridges . Taking impressions and Pouring of gypsum model in the manufacture of bridges Wax modeling of the pontic.	4
2	Soldering of the bridge units. Materials, equipment. stages of manufacturing prostheses Laboratorial stages of manufacturing prostheses (thermal, chemical, mechanical treatment.) Clinical stages(fitting, cementation)	4
3	Technology of manufacturing of partial removable dentures Taking impressions and Pouring of gypsum models Manufacture of bite wax patterns ..Auxiliary materials (basic wax, gypsum)characteristics.	4
4	Recording of Centric occlusion. Mounting models in the occludator. Clasps. Materials, requirements, selection rules.Artificial teeth. Materials, requirements, rules of selection Denture base materials . Classification. Composition, properties. Types of plastic polymerization. Regime of plastic polymerization. Types of plastic porosity. Materials, instruments for the finishing of prostheses. Materials for repairing prostheses.	4
5	Anatomy of the maxilla. Maxillary teeth extraction. Steps, instruments, type of anesthesia. Indications for teeth extraction. Technique of maxillary teeth extraction Technique of maxillary teeth extraction. Steps, instruments, type of anesthesia	4
6	Anatomy of the mandible. Mandibular teeth extraction. Steps, instruments, type of anesthesia Technique of mandibular teeth extraction Mistakes, complications. Technique of mandibular teeth extraction. Steps, instruments, type of anesthesia	4
7	Assessment of practical skills of the modules "Propaedeutics of orthopedic and surgical dentistry"	2
<b>“Therapeutic Dentistry”</b>		
1	Endodontics. The concept of an endodont. Anatomical and topographic features of the tooth cavity and root canals of various groups of teeth. Endodontic instruments. ISO classification. Work technique. Pulpitis. The concept. Classification, methods of treatment of pulpitis Pulpitis. The method of vital pulpotomia. Technique. Trepanation and preparation of the crown of the intact tooth, the opening of the pulp chamber.	4
2	Pulpitis. Method of vital pulpectomy. Technique. Features of preparation of carious cavity in endodontic treatment. Diathermocoagulation. Pulpitis . Instrumental and medicamental treatment single-rooted teeth.. Indication. Technique . Control of root canal cleanliness. Errors. Protection of the dentists from HIV infection	4
3	Pulpitis Method of devitalization of the pulp. Technique. Opening of the pulpal chamber , the application of arsenic paste, painkillers, temporary fillings Pulpitis Method of devital pulpectomy . The technique of endodontic treatment of multi-rooted teeth. Pulpitis. Instrumental and medicamental treatment of root canals of multi-rooted teeth. (Step Back).	4

4	Pulpitis Method of devital pulpotomia. Technique. Impregnation resorcin-formalin method. Errors. Pulpitis . Heavy-going root canals. Reasons. Methods and technique of enlargement of heavy-going canals: chemical, physical, mechanical ( Crown down)	4
5	Periodontitis. Concept. Instrumental and medicamental treatment of root canals in patients with periodontitis. Filling materials for root canals. The choice of filling material. Methods and techniques of root canal filling.	4
6	Root canal filling. Evaluation of treatment. Posts, types. Method of root canal filling with posts. Gutta-Percha posts .Characteristic.Application of gutta-percha posts, methods Errors in endodontic manipulations, their prevention	4
7	Assessment of practical skills of the module "Propaedeutics of therapeutic dentistry"	2
	Total	188

Considered at the department meeting of Propedeutic of Dental Diseases, protocol of "\_26\_"  
\_May\_\_\_\_\_ 2025\_\_, No18\_

Head of the Department



D.V. Michalchenko