

**Thematic plan of seminars
in the discipline "Prosthetic Dentistry"
for students in the year of admission 2022
according to the educational program 31.05.03 Dentistry,
orientation (profile) Dentistry (specialty), full-time education
for the 2025-2026 academic year**

№	Thematic blocks	Practical training in the framework of the thematic block³	Hours (academic)⁴
	7 semester		
1.	Periodontal diseases. Examination of patients with periodontal diseases Methods of examination of periodontal tissues and their diagnostic significance. ¹ The concept of "periodontal tooth" and "periodontal disease". Classification of periodontal diseases. Etiology and pathogenesis of periodontal diseases. The main symptoms of periodontitis. Determination of nosological forms of periodontal diseases-focal periodontitis and generalized periodontitis. The tasks of the orthopedic stage of the complex treatment of periodontal diseases. ² Part 1.	PT	2
	Periodontal diseases. Examination of patients with periodontal diseases Methods of examination of periodontal tissues and their diagnostic significance. ¹ X-ray methods of examination of periodontal diseases. Occlusiography. Odontoparodontogram and its analysis. Gnathodynamometry. Periotestometry, measuring devices. Obtaining impressions and studying diagnostic models in the articulator. Identification of supercontacts and comparison with occlusiogram data ² Part 2.	SM	2
	Periodontal diseases. Examination of patients with periodontal diseases Methods of examination of periodontal tissues and their diagnostic significance. ¹ Formulation of the diagnosis. Drawing up a comprehensive treatment plan for periodontitis. The role and place of orthopedic treatment in complex therapy. The basics of choosing the designs of medical devices. ² Part 3.	SM	2
2.	Traumatic overload of the periodontium. Comprehensive therapy of periodontitis. ¹ The concept of traumatic occlusion and its types. The concept of functional overload of teeth. Differential diagnosis of primary and secondary traumatic occlusion. Selective grinding of teeth. Indications, methodology. ² Part 1.	SM	2
	Traumatic overload of the periodontium. Comprehensive therapy of periodontitis. ¹ Classification of splints. Requirements for splints. Comparative evaluation of removable and non-removable types of splints. Types of stabilization of the dentition. ² Part 2	SM	2

	Traumatic overload of the periodontium. Comprehensive therapy of periodontitis. ¹ Biomechanical basics of splinting. The method of temporary splinting as a therapeutic stage aimed at creating the stability of teeth and dentitions. ² Part 3	SM	2
3.	Focal periodontitis. Etiology, pathogenesis, clinic. Orthopedic treatment of focal (localized) periodontitis. ¹ Etiology, pathogenesis of focal periodontitis. Clinic of focal (localized) periodontitis. Justification of the splint or prosthesis design and their length based on periodontogram analysis data. ² Part 1	SM	2
	Focal periodontitis. Etiology, pathogenesis, clinic. Orthopedic treatment of focal (localized) periodontitis. ¹ Designs of splints and splinting prostheses: fixed, removable, combined. Requirements for fixed appliances in the presence of focal periodontitis. Carrying out the clinical stage depending on the design of the splinting apparatus or prosthesis. ² Part 2	SM	2
	Focal periodontitis. Etiology, pathogenesis, clinic. Orthopedic treatment of focal (localized) periodontitis. ¹ Carrying out the clinical stage depending on the design of the splinting apparatus or prosthesis. ² Part 3	SM	2
4.	Generalized periodontitis. Orthopedic methods of treatment of generalized periodontitis. Direct prosthetics for periodontal diseases. ¹ Etiology, pathogenesis of generalized periodontitis. Analysis of radiographs in generalized periodontitis. Rationale for the choice of splinting prosthesis design. ² Part 1	SM	2
	Generalized periodontitis. Orthopedic methods of treatment of generalized periodontitis. Direct prosthetics for periodontal diseases. ¹ Orthopedic treatment of generalized periodontitis with intact dentition. Types of medical devices. Orthopedic treatment of generalized periodontitis with partial absence of teeth. Types of medical devices. Clinical and laboratory stages of manufacturing splinting structures. ² Part 2	SM	2
	Generalized periodontitis. Orthopedic methods of treatment of generalized periodontitis. Direct prosthetics for periodontal diseases. ¹ Indications for direct prosthetics. Clinical and technical stages of manufacturing direct splint prostheses. Preparation of the model for direct prosthetics of the anterior and lateral groups of teeth. Treatment of an immediate prosthesis before application in the oral cavity. ² Part 3	SM	2
5.	Orthopedic treatment of patients with periodontal diseases with clasp splinting prostheses with a fixation system on support-retaining clasps ¹ . The way of insertion and removal of a clasp splint prosthesis. The concept of "clinical equator". Parallelometry in the manufacture of solid-cast removable splints and splint-dentures used in the treatment of periodontal diseases. ² . Part 1	SM	2
	Orthopedic treatment of patients with periodontal diseases with clasp splinting prostheses with a fixation system on support-retaining clasps ¹ .	SM	2

	The main structural materials used in the manufacture of dentures. Precision casting technology. ² Part 2		
	Orthopedic treatment of patients with periodontal diseases with clasp splinting prostheses with a fixation system on support-retaining clasps ¹ . Clinical and laboratory stages of manufacturing splinting cast prostheses with clasp fixation. ² Part 3	SM	2
6.	Orthopedic treatment of patients with periodontal diseases with clasp splinting prostheses with with a telescopic, beam or lock fixation system ¹ . Clinical and laboratory stages of manufacturing splinting cast prostheses with lock fixation. Classification of lock fasteners. ² . Part 1	SM	2
	Orthopedic treatment of patients with periodontal diseases with clasp splinting prostheses with a telescopic, beam or lock fixation system ¹ . Clinical and laboratory stages of manufacturing of clasp splints-prostheses with telescopic fixation system. ² Part 2	SM	2
	Orthopedic treatment of patients with periodontal diseases with clasp splinting prostheses with a telescopic, beam or lock fixation system ¹ . Clinical and laboratory stages of manufacturing of clasp splints-prostheses with a beam fixation system. Types of structures of beam systems and indications for their use. ² . Part 3	SM	2
	Total		36
8 semester			
№	Thematic blocks	Practical training in the framework of the thematic block	Hours (academic)
1.	The concept of aesthetics in dentistry. The main aesthetic parameters. Facial composition; dental composition; stomatofacial composition. ¹ Medical aesthetics, its structure. Research methods in medical aesthetics. Patterns in the structure of the body, face, and maxillary system of patients. ² Part 1	PT	2
	The concept of aesthetics in dentistry. The main aesthetic parameters. Facial composition; dental composition; stomatofacial composition. ¹ The main aesthetic parameters. Analysis of facial parameters in aesthetic dentistry. Aesthetic criteria of a smile. The realization of aesthetic patterns in the design of dentures. Photocall and wax modeling. ² Part 2	PT	2
	The concept of aesthetics in dentistry. The main aesthetic parameters. Facial composition; dental composition; stomatofacial composition. ¹ Aesthetic digital smile modeling and digital virtual planning (Digital Smile System, Planmeca Romexis Smile Design, etc.) Digital protocols for integrated planning of aesthetic dental treatment. ² Part 3.	PT	2

2.	Modern methods of orthopedic treatment of patients with defects in hard dental tissues using ceramic veneers.1 Indications and contraindications for the manufacture of veneers. Principles of preparation of teeth for veneers.2 Part 1	SM	2
	Modern methods of orthopedic treatment of patients with defects in hard dental tissues using ceramic veneers.1 The methods of manufacturing ceramic veneers are the method of layer-by-layer application, the method of casting or injection pressing. Materials. Characteristics of dental ceramics. Equipment..2 Part 2	SM	2
	Modern methods of orthopedic treatment of patients with defects in hard dental tissues using ceramic veneers.1 Methods of manufacturing ceramic veneers (CAD/CAM milling method). Materials. equipment. Fixing ceramic veneers.2 Part 3.	SM	2
3.	Methods of examination and determination of anatomical and topographic conditions for implantation. Indications and contraindications for dental implantation. Planning, features of orthopedic treatment based on intraosseous implants. Implantation materials 1. The implant. Definition, design features of the main types of implants, requirements for structural materials. The specifics of X-ray examinations and orthopantomogram readings. Features of examination of patients with partial and complete absence of teeth 2. Part 1.	SM	2
	Methods of examination and determination of anatomical and topographic conditions for implantation. Indications and contraindications for dental implantation. Planning, features of orthopedic treatment based on intraosseous implants. Implantation materials.1 Determination of the parameters of the volume of bone tissue of the toothless area of the jaws. Implantation under unfavorable anatomical and topographic conditions Equipment and tools. Methods of manufacturing a surgical template. 2 Part 2.	SM	2
	Methods of examination and determination of anatomical and topographic conditions for implantation. Indications and contraindications for dental implantation. Planning, features of orthopedic treatment based on intraosseous implants. Implantation materials.1 Implantation materials. Biotechnical standards for intraosseous dental implants (designs, dimensions, surface treatment, manufacturing methods, instrumentation). Morphology of implant biocompatibility (mechanisms of osteogenesis during implantation). Biocompatibility of implants. Mechanisms of osteogenesis during implantation 2. Part 3.	SM	2
4.	Concepts: one-stage implantation; two-stage implantation. Criteria for assessing the condition of implants. The sequence of clinical and laboratory stages of orthopedic treatment with the support of implants 1. The sequence of clinical and laboratory stages of orthopedic treatment of patients using single artificial crowns supported by	SM	2

	implants. The technique of obtaining impressions with a closed spoon. Materials. Fixation: cement; screw. 2. Part 1.		
	Concepts: one-stage implantation; two-stage implantation. Criteria for assessing the condition of implants. The sequence of clinical and laboratory stages of orthopedic treatment with the support of implants 1. The sequence of clinical and laboratory stages of orthopedic treatment using bridges supported by implants. The technique of obtaining impressions with an open tray with a tray. Materials 2. Part 2.	SM	2
	Concepts: one-stage implantation; two-stage implantation. Criteria for assessing the condition of implants. The sequence of clinical and laboratory stages of orthopedic treatment with the support of implants 1. Removable dentures supported by two implants by means of a locking spherical push-button lock. The use of magnetic fixation of removable dentures. Beam fastening of prostheses. The use of endossal implants in maxillofacial orthopedics 2. Part 3	SM	2
5.	Errors and complications after dental prosthetics on implants. Hygienic measures necessary in the presence of orthopedic structures on dental implants in the oral cavity.1 Periimplantitis. Mucosities. Preventive measures 2. Part 1	PT	2
	Errors and complications after dental prosthetics on implants. Hygienic measures necessary in the presence of orthopedic structures on dental implants in the oral cavity.1 Mechanical damage and fractures of components of implants and prostheses. Preventive measures 2. Part 2.	PT	2
	Errors and complications after dental prosthetics on implants. Hygienic measures necessary in the presence of orthopedic structures on dental implants in the oral cavity.1 Features of hygienic care of prosthetic structures based on dental intraosseous implants 2. Part 3.	PT	2
6.	Diagnosis and prevention of complications in orthopedic treatment of various types of dentures and devices. Errors and complications at the stages of orthopedic treatment. Principles of deontology 1. Medical errors at the stage of diagnosis and planning of orthopedic treatment of patients 2. Part 1	PT	2
	Diagnosis and prevention of complications in orthopedic treatment of various types of dentures and devices. Errors and complications at the stages of orthopedic treatment. Principles of deontology 1. Tactical, technical errors and complications in the orthopedic treatment of patients with fixed prosthesis structures. Ways to prevent and eliminate errors and complications in non-removable prosthetics2. Part 2	PT	2
	Diagnosis and prevention of complications in orthopedic treatment of various types of dentures and devices. Errors and complications at the stages of orthopedic treatment. Principles of deontology 1.	PT	2

	Tactical, technical errors and complications in the orthopedic treatment of patients with removable prosthesis structures. Ways to prevent and eliminate errors and complications in removable prosthetics 2. Part 3		
	Total		36

1 - topic

2 - essential content

3- PT - practical training, SM - simulation modules

4 - one thematic block includes several classes, the duration of one lesson is 45 minutes, with a break between classes of at least 5 minutes

Considered at the meeting of the Department for Prosthetic dentistry "17" May 2025, protocol No 11.

Head of the Department



V.I.Shemonaev