

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
Educational Institution
BELARUSIAN STATE MEDICAL UNIVERSITY

**Контрольный
экземпляр**



APPROVED

by First Vice-Rector, Professor
I.N.Moroz

03.08.2022

Reg. # UD- L.752/2223 /edu.

PROPAEDEUTICS IN DENTISTRY

**Curriculum of higher educational institution
in the academic discipline for the specialty:**

1-79 01 07 «Dentistry»

Curriculum is based on the educational program «Propaedeutics in Dentistry», approved 02.08.2022, registration # УД-Л.752/2223/уч.; on the educational plan in the specialty 1-79 01 07 «Dentistry», approved 18.05.2022, registration # L 79-1-7/2223/mf.

COMPILERS:

N.A.Gres, Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University», PhD, Associate Professor;

N.M.Poloneichik, Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University», PhD, Associate Professor;

F.R.Tagiyeva, Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University», PhD, Associate Professor;

G.G.Chistyakova, Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University», PhD, Associate Professor;

A.A.Petrouk, Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University», PhD, Associate Professor;

Yu.M.Kazakova, Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University», PhD

RECOMMENDED FOR APPROVAL:

by the Department of General Dentistry of the educational institution «Belarusian State Medical University»
(protocol # 14 of 13.06.2022);

by the Scientific and Methodological Council of the educational institution «Belarusian State Medical University»
(protocol # 6 of 29.06.2022)

EXPLANATORY NOTE

«Propaedeutics in Dentistry» is the academic discipline of the module «Propaedeutic Dentistry and Materials Science», which contains systematized scientific knowledge about the theoretical and practical foundations of dentistry, ensuring that students master the skills necessary for therapeutic and orthopedic manipulations.

The aim of the discipline «Propaedeutics in Dentistry» is the formation of basic professional competence based on the study of the composition and properties of filling materials, the functional anatomy of the dentition, teaching manual skills on simulation equipment for therapeutic and orthopedic manipulations.

The objectives of the discipline «Propaedeutics in Dentistry» are to form students' scientific knowledge about:

- basics of the organization and structure of dental care;
- functional anatomy of teeth and dentition;
- composition and physico-chemical, technological and biological properties of filling and structural materials;
- basics of operational techniques for the preparation of carious cavities and root canals;
- fundamentals of medical ethics and deontology;
- skills and abilities required for therapeutic and orthopedic manipulations on simulators (phantoms).

The knowledge, skills and abilities acquired during the study of the academic discipline «Propaedeutics in Dentistry» are necessary for the successful study of the following modules: «Medical Prevention in Dentistry», «Therapeutic Dentistry», «Prosthodontics Module».

Studying the educational discipline «Propaedeutics in Dentistry» should ensure the formation of students' basic professional competence:

BPC. Work with filling and structural materials, apply methods of restoration of teeth hard tissues, dissect hard tissues of teeth during therapeutic interventions and the manufacture of orthopedic structures.

As a result of studying the discipline «Propaedeutics in Dentistry», the student should

- know:**
- sections and directions of dentistry;
 - normative equipment and equipment of the workplace of a dentist; rules for the operation of the dental unit and dental chair;
 - fundamentals of modern ergonomics;
 - compositions and properties of filling materials for restoration of the crown part of the tooth;
 - compositions and properties of filling materials for restoring the root of the tooth;
 - functional anatomy of the dentition;
 - stages, tools, modes of preparation and filling of the cavities of the crown part of the tooth;

stages, tools, technique of filling the cavities of the crown part of the tooth;
 principles and criteria for quality control of the preparation and filling of the
 cavities of the crown part of the tooth;

endodontic instruments;

techniques of mechanical, chemical, drug treatment of root canals of teeth;

stages and technique of filling root canals of teeth;

principles and criteria for quality control of preparation and filling of root
 canals of teeth;

structure of the complex of periodontal tissues;

types of dental deposits, mechanism of formation;

instruments for individual and professional oral hygiene;

stages and techniques of individual and professional oral hygiene;

clinical stages of manufacturing orthopedic constructions;

impression materials, techniques and techniques for obtaining impressions;

fixing materials, methods of using fixing materials for temporary and
 permanent fixation;

tools and methods for removing fixed structures;

be able to:

work with basic, auxiliary and filling materials;

reproduce the anatomical shape of the teeth;

carry out the removal of dental deposits from the crowns of the teeth on
 phantoms;

perform professional oral hygiene and flossing on a phantom model;

carry out a standard method of brushing teeth on a phantom model;

prepare various classes of carious cavities on the phantom, carry out antiseptic
 treatment of the prepared cavities;

carry out the imposition of therapeutic and isolation (base) liners materials;

filling carious cavities with various filling materials;

open tooth cavities on phantoms, apply devitalizing agents;

carry out endodontic preparation of the root canal with the help of instruments;

carry out antiseptic treatment and drying of the root canal;

seal the root canal on the phantom by manual and machine methods;

make provisional prostheses (inlays, artificial crowns, small bridges, pin
 structures) on a phantom;

carry out temporary and permanent fixation of non-removable constructions on
 the phantom;

carry out the removal of fixed constructions on the phantom;

master:

techniques and methods for preparing tooth cavities on phantoms, depending
 on the choice of filling material;

techniques and methods of filling various classes of cavities on phantoms,
 depending on the choice of restorative material;

techniques and methods for treating root canals of teeth on phantoms
 (mechanical, chemical, drug, drying), depending on the method of filling and root
 sealant;

techniques and methods for sealing the root canals of teeth on phantoms, depending on the choice of filling material for root fillings;

various methods of professional oral hygiene using special tools and products;

manual skills in the manufacture of fixed constructions that eliminate defects in hard dental tissues (inlays, crowns) on phantoms;

manual skills in the manufacture of intra-root non-removable constructions on phantoms;

manual skills in the manufacture of fixed constructions that eliminate defects in the dentition on phantoms;

techniques and methods for fixing and removing fixed prostheses on a phantom;

methods of working with construction, auxiliary and clinical materials;

manual skills to reproduce the anatomical shape of the teeth in various ways.

Total number of hours for the study of the discipline is 576 academic hours. Classroom hours according to the types of studies: lectures – 24 hours, practical classes – 350 hours, student independent work (self-study) – 202 hours.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of a credit (3 semester) and examination (4 semester).

Form of higher education – full-time.

ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name Specialties	semester	Number of academic hours						Form of intermediate assessment
		total	in-class	including			out-of-class self-studies	
				lectures (including supervised independent work)	supervised student independent work	practical classes		
1-79 01 07 «Dentistry»	3	288	182	14	-	170	106	credit
	4	288	192	10	-	180	96	exam
		576	374	24	-	350	202	

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical classes
1. Functional anatomy of the maxillofacial system	4	55
1.1. General and private anatomy of teeth	1	10
1.2. Bite, its types	1	15
1.3. Biomechanics of the chewing apparatus	2	30
2. Odontopreparation of the crown part of the tooth with subsequent restoration with restorative materials	6	70
2.1. Preparation and filling of cavities according to Black	2	35
2.2. Filling materials for dental restorations	4	35
3. Odontopreparation of the crown part of the tooth with subsequent restoration of prosthetic structures	7	130
3.1. Preparation of teeth on phantoms for fixed structures (inlays, crowns, bridges, pin structures)	3	30
3.2. Methods, technique and stages of manufacturing non-removable (fixed) structures	2	55
3.3. Technique for obtaining impressions in the manufacture of fixed dentures	2	30
3.4. Fixation and removal of fixed dentures	-	15
4. Root canal preparation and obturation	6	70
4.1. Root canal preparation, instruments, methods, techniques	3	30
4.2. Root canal obturation, instruments, methods, techniques	3	35
4.3. X-ray anatomy of the dentition	-	5
5. Basics of professional oral hygiene	1	10
5.1. The mechanism of formation of dental deposits. Basics of individual oral hygiene	1	5
5.2. Stages and methods of professional oral hygiene	-	5
6. Clinical features and stages of manufacturing removable dentures	-	15
Total hours	24	350

CONTENT OF THE EDUCATIONAL MATERIAL

1. Functional anatomy of the maxillofacial system

1.1. General and private anatomy of teeth

Groups of teeth, dentition, dental formula, types of recording. Parts of the tooth, the relief of the crown of the tooth. Signs of teeth that determine whether they belong to the right or left half of the dentition. Occlusal surface of the dentition. Anatomy of the incisors of the upper jaw and lower jaw. Anatomy of the canines of the upper jaw and lower jaw. Anatomy of the premolars of the upper jaw. Anatomy of the premolars of the lower jaw. Anatomy of the molars of the upper jaw. Anatomy of the molars of the lower jaw. Anatomical and topographic features of the structure of the cavities of permanent teeth. The structure and functions of the pulp and periodontium. Characteristics of the dental, alveolar and basal arches in the upper and lower jaws. Characteristics of the occlusal surface of the dentition (sagittal and transversal occlusal curves).

1.2. Bite, its types

Articulation. Occlusion, types of occlusion. Signs that are characterize the central occlusion. Orthognathic bite. The signs that are determine the type of bite are basic and auxiliary. Semi-physiological types of the bite. Anatomy and physiology of the periodontal functions. Endurance periodontium to the load. Absolute strength of chewing muscles. chewing pressure. Definition of the concept of «periodontal reserve forces».

1.3. Biomechanics of the chewing apparatus

Vertical movements of the lower jaw. Central ratio, terminal axis of rotation, state of physiological rest, interocclusal space.

Sagittal movements of the mandible. The size of the sagittal articular path and its angle. The angle of the sagittal incisal path.

Transversal movements of the mandible. Characteristics of the working and balancing sides. Characterization of Bennett's angle and motion. The angle of the transversal incisal path. Characteristics of Bonville's three-point contact.

Devices that reproduce the movements of the lower jaw. Types of articulators, purpose. Facial arc, appointment.

2. Odontopreparation of the crown part of the tooth with subsequent restoration with restorative materials

2.1. Preparation and filling of cavities according to Black

Organization and equipment of the dental office. Types of dental units. Instruments for examination and treatment of teeth. Basic principles of ergonomics are in dentistry. Asepsis and antisepsis are in dentistry. Cofferdam: purpose, method of application.

Classification of carious cavities according to Black. Manual technique of operations in cavities of the 1st class.

Manual technique of operations in cavities of the 5th class.

Manual technique of operations in cavities of the 2nd class.

Manual technique of operations in cavities of the 3rd class.

Manual technique of operations in cavities of the 4th class.

Contact point, ways to restore it.

Principles of quality control of the performance of operational techniques in filling defects in hard tissues of the teeth in modern ergonomic conditions. Errors in technique of the preparation of the carious cavities.

Composition and form of the production of glass ionomer cements, chemically curing composites, photopolymer composite materials, liners materials, adhesive systems. Features of filling cavities of 1,2,3,4,5 class according to Black. Additional tools and devices used in the filling technique. Adhesive technique, bonding technique, sandwich technique, layered restoration technique.

2.2. Filling materials for dental restorations

Classification of the filling materials. Physical, chemical and biophysical properties of the filling materials. Adhesive systems: compositions, properties, methods of application. Materials for temporary fillings: compositions, properties, methods of application. Types of filling materials: treatment, isolating, therapeutic and combined. Glass ionomer cements: compositions, properties, methods of application. Filling materials: composites of chemical curing (compositions, properties, method of application). Filling materials: light-curing composites (compositions, properties, method of application). Amalgam: composition, properties, method of application, preparation.

3. Odontopreparation of the crown part of the tooth with subsequent restoration of prosthetic structures

3.1. Preparation of teeth on phantoms for fixed structures (inlays, crowns, bridges, pin structures)

Preparation of cavities for INLAY, ONLAY (O, MO or DO). Preparation of cavities for INLAY, ONLAY (MOD).

Preparation of the supragingival part of the root and unsealing of root canals for pin constructions. Preparation of a tooth for a cast post-and-core construction.

Preparation of teeth for artificial crowns (with and without ledge), types of ledges, tools for forming ledges.

Preparation of teeth for abutment artificial crowns of a bridge prosthesis.

Selection of an instrument for preparing cavities for inlays, operating modes (speed, pressure, cooling). Methods for protecting the pulp of prepared teeth for the period of fabrication of structures.

3.2. Methods, technique and stages of manufacturing non-removable (fixed) structures

Fabrication of a temporary crowns in one session.

The sequence of manufacturing bridges. Fabrication of a provisional bridge.

Making a simple pin tooth.

Production of a cast post-and-core construction by the direct method.

Prosthesis fitting, correction of occlusal and articulatory relationships.

3.3. Technique for obtaining impressions in the manufacture of fixed structures

Release form of impression materials of different groups, dosage for work. Devices and apparatus for kneading and introducing impression materials into the oral cavity. Obtaining working and auxiliary impressions with alginate and silicone

materials. Errors when taking impressions. Gingival retraction, purpose of retraction, means, retraction technique.

3.4. Fixation and removal of fixed structures

Materials for temporary and permanent fixation of non-removable structures. Release form of various groups of fixing materials, dosage, mixing, introduction into a fixed structure, application of the structure to the prosthetic bed.

Method of fixation of non-removable structures.

Reasons for removing dentures

Tools used to remove dentures. Methods and techniques for removing fixed prostheses.

4. Root canal preparation and obturation

4.1. Root canal preparation, instruments, methods, techniques

Endodontic instrumentation, its purpose. Principles of standardization. Method of work.

The technique of opening the cavity of the tooth in the teeth of the lower jaw. The method of opening the cavity of the tooth in the teeth of the upper jaw.

Methods of extirpation, endodontic and drug treatment of the root canal; drying.

4.2. Root canal obturation, instruments, methods, techniques

Filling materials for root canals.

Root canal filling methods. Root canal filling technique using the lateral condensation method. Efficiency criteria.

Mistakes and complications in endodontic treatment. Prevention of complications.

4.3. X-ray anatomy of the dentition

Interpretation of radiographic images of dental tissues, periodontal tissues, bone tissue. Intraoral radiography of teeth, skiological analysis. Panoramic tomography, skiological analysis. Three-dimensional image, skiological analysis.

5. Basics of professional oral hygiene

5.1. The mechanism of formation of dental deposits. Basics of individual oral hygiene

Types of dental plaque, causes, mechanism of formation of dental plaque, types of microorganisms involved in the formation of plaque. Indication of dental deposits. OHI-S index, its definition and interpretation.

Methods and means of individual oral hygiene. Teeth brushing methods.

5.2. Stages and methods of professional oral hygiene

Methods and means of professional removal of dental deposits. Dental instruments for the removal of dental deposits. Tool standardization. Methods for removing dental plaque with tools.

6. Clinical features and stages of manufacturing removable dentures

Removable dentures. General characteristics of plastic removable prostheses. Borders of prosthesis bases. Technique for manufacturing wax bases with bite occlusal rims. Types of clasps, their location on models and manufacturing techniques. Removable dentures. General characteristics of supported removable prostheses. Clasps, clasp system. Planning the design of a supported prosthesis.

Surveying. Removable dentures. Fabrication of the frame of a fullcast removable prosthesis with casting on a refractory model. Types of artificial teeth. Rules for the selection and setting of teeth in partial removable dentures, the final modeling of denture bases. Removable dentures. General characteristics of complete removable dentures. Production of individual trays and wax bases with bite rollers. Removable dentures. Construction of artificial dentition in complete removable dentures. Methods for replacing the wax composition of the base with a plastic one. Possible technical errors in the manufacture of removable dentures and their prevention. Removable dentures. Laboratory technique for repairing removable dentures. Laboratory technique for manufacturing a prosthesis with a two-layer basis.

ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	Number of classroom hours		Self-studies	Form of control
		lectures	practical		
	3 semester				
1.	Functional anatomy of the maxillofacial system	4	55	22	
1.1.	General and private anatomy of teeth				
1.2.	Bite, its types				
1.3.	Biomechanics of the chewing apparatus				
	Functional anatomy of the chewing apparatus. General characteristics. Anatomical shape of the teeth. Dental rows. Occlusal surface of the dentition	1	-	2	Interviews, tests, written reports on practical work, electronic tests
	Anatomy of teeth. Dental rows. Anatomy of the incisors of the upper jaw	-	5		
	Signs of teeth that determine whether they belong to the right or left half of the dentition. Occlusal surface of the dentition. Anatomy of the mandibular incisors	-	5	2	Interviews, tests, written reports on practical work, electronic tests
	Functional anatomy of the chewing apparatus. Articulation and occlusion. Bite, types of bite	1	-	2	Interviews, tests, written reports on practical work, abstracts, electronic tests
	Articulation. Occlusion. Bite, its types. Anatomy of the canines of the upper jaw	-	5		
	Orthognathic bite. Main and auxiliary features. Anatomy of the canines of the lower jaw	-	5	2	Interview, control work, tests, abstracts, electronic tests

	Semi-physiological types of bite. Signs that determine the type of bite. Anatomy of the premolars of the upper jaw	-	5	2	Interviews, tests, written reports on practical work, electronic tests
	Functional anatomy of the chewing apparatus. Biomechanics of the chewing apparatus. Movements of the lower jaw. Devices that reproduce the movements of the lower jaw	2	-	2	Interviews, tests, written reports on practical work, abstracts, electronic tests
	Anatomy and physiology of the periodontium. Endurance periodontium to the load. Absolute strength of chewing muscles, chewing pressure. Anatomy of the premolars of the lower jaw	-	5		
	Vertical movements of the lower jaw. Anatomy of the first molars of the upper jaw	-	5	2	Interview, control work, written reports on practical work, electronic tests
	Sagittal movements of the mandible. Anatomy of the second molars of the upper jaw	-	5	2	Interview, written reports on practical work, electronic tests
	Transversal movements of the mandible. Anatomy of the first molars of the lower jaw	-	5	2	Interviews, electronic tests
	Devices that reproduce the movements of the lower jaw. Anatomy of the second molars of the lower jaw	-	5	2	Interviews, tests, electronic tests
	Final lesson on the topic «Functional anatomy of the maxillofacial system»	-	5	2	Colloquium
2.	Odontopreparation of the crown part of the tooth with subsequent restoration with restorative materials	6	70	45	
2.1.	Preparation and filling of cavities according to Black				
2.2.	Filling materials for dental restorations				
	Principles and main stages of preparation and filling of carious cavities	2	-	2	Interviews, tests, written reports on practical work, abstracts, electronic tests
	Introduction to the specialty. Organization and equipment of the dental office. Basic principles of ergonomics in dentistry. Instruments for examination and treatment of teeth. Aseptic and antiseptic in dentistry. Cofferdam.	-	5		

Filling materials. Glass ionomer cements. Composition, properties, application	1	-	2	Interviews, electronic tests
Filling materials. Composite materials of chemical and light curing. Composition, properties, application	2	-	-	Interviews, electronic tests
Adhesive systems in dentistry	1	-	2	Interviews, electronic tests
Filling materials. Classification, properties. Materials for temporary fillings: composition, properties, application. Liners: isolation, therapeutic, combined: composition, properties, application	-	5	3	Interview, control work, abstracts, electronic tests
Classification of carious cavities according to Black. Principles of operative technique for the preparation of carious cavities. Manual technique of operations in cavities of the 1st class. Technique for working with materials for temporary fillings, therapeutic and isolation liners	-	5	3	Interviews, tests, written reports on practical work, electronic tests
Filling materials. Glass ionomer cement (GIC): composition, properties, application	-	5	3	Interviews, written reports on practical work, electronic tests
Manual technique of operations in the cavities of the 5th class according to Black. Technique for working with GIC	-	5	3	Interviews, control work, abstracts
Adhesive systems: composition, properties, application	-	5	3	Interview, control work, written reports on practical work, electronic tests
Manual technique of operations in cavities of the 2nd class according to Black. Contact point, recovery methods, instruments	-	5	3	Interviews, tests, written reports on practical work, electronic tests
Filling materials. Composites of chemical curing: composition, properties, application. Composites of light curing: composition, properties, application	-	5	3	Interview, control work, abstracts, electronic tests
Manual technique of operations in the cavities of the 3rd class according to Black. Technique for working with composite materials	-	5	3	Interviews, tests, written reports on practical work, electronic tests

	Polymerization. Polymerization devices. Polymerization shrinkage, methods of its compensation	-	5	3	Interviews, control work, tests, electronic tests
	Manual technique of operations in cavities of the 4th class according to Black. Technique for working with composite materials	-	5	3	Interviews, control work, tests, electronic tests
	Methods for processing fillings from composite materials. Mistakes and complications when working with composite materials	-	5	3	Interviews, control work, tests, electronic tests
	Preparation of cavities for inlays	-	5	3	Interviews, control work, abstracts, electronic tests
	Final lesson on the topic «Filling materials for dental restorations»	-	5	3	Colloquium
3.	Odontopreparation of the crown part of the tooth with subsequent restoration of prosthetic structures	4	45	39	
3.1.	Preparation of teeth on phantoms for fixed structures (inlays, crowns, bridges, pin structures)				
3.2.	Methods, technique and stages of manufacturing non-removable (fixed) structures				
3.3.	Technique for obtaining impressions in the manufacture of fixed structures				
3.4.	Fixation and removal of fixed structures				
	Preparation of teeth for fixed constructions. Types of impressions, methods of obtaining	1	-	1	
	Methods and sequence of manufacturing provisional prostheses	2	-	1	Interviews, electronic tests, written reports on practical work, electronic tests
	Materials for temporary and permanent fixation of fixed prostheses. Classification, composition, properties, application	1	-	1	
	Preparation of teeth for artificial crowns	-	5	4	Interviews, control work, abstracts, electronic tests
	Inlays. General characteristics. Preparation of cavities for inlays, errors. Materials and methods used for making inlays	-	5	4	Interview, control work, tests, abstracts, electronic tests
	Preparation of teeth for artificial crowns	-	5	4	Interviews, control work, abstracts, electronic tests

Artificial crowns. General characteristics. Preparation of teeth for crowns, mistakes. Materials and methods used for the manufacture of artificial crowns	-	5	4	Interviews, written reports on practical work, abstracts, electronic tests
Methods and technique of single-session production of provisional crowns. Evaluation of the quality of fitting of artificial crowns	-	5	3	Interviews, written reports on practical work, abstracts, electronic tests
Impression materials. Classification. Types of impressions. Technique of taking impressions, mistakes	-	5	4	Interview, control work, electronic tests
Impression technique with alginate and silicone materials	-	5	4	Interviews, written reports on practical work, electronic tests
Materials for fixing fixed dentures. Technique of working with fixing materials, errors	-	5	4	Interview, tests, written reports on practical work.
Temporary and permanent fixation of fixed dentures		5	4	control work Credit
4 semester				
5. Basics of professional oral hygiene	-	10	4	
5.1. The mechanism of formation of dental deposits. Basics of individual oral hygiene				
5.2. Stages and methods of professional oral hygiene				
Dental instruments for the removal of dental deposits. Ways to remove dental plaque with tools	-	5	2	Interviews, tests, written reports on practical work abstracts, electronic tests
Dental deposits. Methods and means of oral hygiene. Standard method of brushing teeth. Means of professional removal of dental deposits. OHI-S Index, definition, interpretation	-	5	2	Interview, control work, abstracts, electronic tests
4. Root canal preparation and obturation	6	65	31	
4.1. Root canal preparation, instruments, techniques, methods				
4.2. Root canal obturation, instruments, methods, techniques				
4.3. X-ray anatomy of the dentition				

Endodontic instruments. Principles of standardization	2	-	1	
Additional methods and means for endodontic treatment of root canals of teeth	1	-	1	
Methods of mechanical preparation of root canals of teeth	1	-	1	
Methods of medical treatment of root canals of teeth	1	-	1	
Endodontics. Endodontic instrumentation, its purpose. The method of opening the cavity of the tooth in the teeth of the lower jaw	-	5	2	Interviews, written reports on practical work, abstracts, electronic tests
Anatomical and topographic features of the structure of the cavities of permanent teeth. The structure and functions of the pulp and periodontum. Endodontic instruments. Principles of standardization	-	5	2	Interview, control work, electronic tests, electronic tests
Endodontics. Endodontic instrumentation, its purpose. The method of opening the cavity of the tooth in the teeth of the lower jaw	-	5	2	Interviews, written reports on practical work, abstracts, electronic tests
Methods of endodontic treatment	-	5	2	Interviews, written reports on practical work, abstracts, electronic tests
Endodontics. The method of opening the cavity of the tooth in the teeth of the upper jaw	-	5	2	Interview, control work, electronic tests, written reports on practical work, electronic tests
Root canal filling methods. Efficiency criteria	-	5	2	Interviews, written reports on practical work, electronic tests
Endodontics. Methods of extirpation, endodontic and drug treatment of the root canal, drying	-	5	2	Interview, control work, abstracts, electronic tests
Mistakes and complications in endodontic treatment. Prevention of complications	-	5	2	Interview, control work, tests, written reports on practical work, electronic tests
Endodontics. Methods of extirpation, endodontic and drug treatment of the root canal, drying	-	5	2	Interview, control work, tests, electronic tests

	Classification of filling materials for root fillings. Composition, properties and indications for use. Methods of filling root canals of the teeth	1	-	1	Interview
	X-ray anatomy of the dentition	-	5	2	Interview, control work, written reports on practical work, abstracts, electronic tests
	Endodontics. Methods for filling root canals with various filling materials (manual and machine methods)	-	5	2	Interviews, written reports on practical work, electronic tests
	Final lesson on the topic «Root canal preparation, instruments, methods, techniques», «Root canal obturation, instruments, methods, techniques» (Endodontics)	-	5	2	Colloquium
	Endodontics. Root canal filling technique using the lateral condensation method	-	5	2	Interviews, tests, abstracts, electronic tests
3.	Odontopreparation of the crown part of the tooth with subsequent restoration of prosthetic structures	3	100	57	
3.1.	Preparation of teeth on phantoms for fixed structures (inlays, crowns, bridges, pin structures)				
3.2.	Methods, technique and stages of manufacturing non-removable (fixed) structures				
3.3.	Technique for obtaining impressions in the manufacture of fixed structures				
3.4.	Fixation and removal of fixed structures				
6.	Clinical features and stages of manufacturing removable dentures				
	Prosthodontic treatment of complete defects of the tooth crown with pin structures. Types of pin teeth. Cast post-and-core construction and simple pin teeth	-	5	2	Interviews, written reports on practical work, abstracts, electronic tests
	Endodontics. Root canal filling technique using the lateral condensation method	-	5	2	Interviews, control work, abstracts, electronic tests
	Mistakes and complications in endodontic treatment. Innovative methods of processing canals of teeth	2	-	2	

Prosthodontic treatment of defects in the crown part of the tooth using pin structures	1	-	2	
Errors in the manufacture of post-and-core construction and simple pin teeth. Inside the root anchor structures	-	5	3	Interviews, control work, electronic tests, abstracts, electronic tests
Preparation of the supragingival part of the root and unsealing of root canals for pin structures	-	5	3	Interviews, electronic tests, abstracts, electronic tests
Methods for the manufacture of provisional prostheses	-	5	3	Interviews, control work, electronic tests, written reports on practical work, electronic tests
Preparation of the supragingival part of the root and unsealing of root canals for pin structures	-	5	3	Interviews, electronic tests, abstracts, electronic tests
The sequence of manufacturing fixed bridges	-	5	3	Interviews, control work, written reports on practical work, electronic tests
Modeling of the post-and-core construction by the direct method and the manufacture of an artificial abutment using anchors	-	5	3	Interviews, written reports on practical work, abstracts, electronic tests
Types of impressions and impression trays. Errors in obtaining an impression. Impression materials used in the manufacture of fixed dentures	-	5	3	Interviews, control work, electronic tests
Modeling of the post-and-core construction by the direct method and the manufacture of an artificial abutment using anchors	-	5	3	Interview, control work, tests, electronic tests
Composition, properties and application of materials for temporary and permanent fixation of fixed dentures. Reasons for removing dentures Tools for removing prostheses	-	5	3	Interview, control work, tests, electronic tests
Preparation of teeth for supporting artificial crowns of a bridge prosthesis	-	5	3	Interviews, electronic tests, written reports on practical work, abstracts, electronic tests

	Final lesson on the topic «Fixed dentures»	-	5	3	Colloquium
	Obtaining a working and auxiliary impression in the manufacture of a bridge prosthesis	-	5	3	Interview, control work, abstracts, electronic tests
	The sequence of manufacturing partial and complete removable dentures	-	5	3	Interview, control work, electronic tests, abstracts, electronic tests
	Fabrication of a provisional bridge with matrix technology. Fixation and removal of fixed dentures	-	5	3	Interviews, written reports on practical work, abstracts, electronic tests
	The sequence of manufacturing supported prostheses	-	5	2	Interviews, written reports on practical work, abstracts, electronic tests
	Fabrication of a provisional bridge with matrix technology. Fixation and removal of fixed dentures	-	5	3	Interviews, written reports on practical work, abstracts, electronic tests
	Final lesson on the topic «Removable dentures»	-	5	2	Colloquium
	Composite materials chemo- and light-cure. Composition, properties, application. Adhesive systems	-	5	3	Interviews, tests, written reports on practical work, electronic tests
5.	Basics of professional oral hygiene	1	5	4	
	Iatrogenic infections in dentistry. Prevention. Aseptic, antiseptic	1	-	1	
	Final lesson on practical skills	-	5	3	Estimation using phantoms Exam
		24	350	202	

INFORMATIONAL AND INSTRUCTIONAL UNIT

LITERATURE

Basic:

1. Powers, J. M. Dental materials: foundations and applications / J. M. Powers, J. C. Wataha. – 11 th ed. – Elsevier, 2017. – 240 p.

Additional:

2. Методы препарирования твердых тканей зубов = Methods of preparation of hard dental tissue : учеб.-метод. пособие / Н. М. Полонейчик и др. – Минск : БГМУ, 2019. – 36 с.

3. Полонейчик, Н. М. Оттисковые материалы = Impression materials : учеб.-метод. пособие. – Минск : БГМУ, 2017, 2018. – 39 с.

4. Полонейчик, Н. М. Методы изготовления гипсовых моделей : учебно-методическое пособие. – Минск : БГМУ, 2020. – 28 с.

5. Полонейчик, Н. М. Керамические материалы в стоматологии и технологические процессы, используемые при изготовлении керамических зубных протезов = Ceramic materials in dentistry and technological processes used in the fabrication of ceramic dental prostheses: учеб.-метод. пособие. – Минск : БГМУ, 2017, 2018 – 40 с.

6. Полонейчик, Н. М. Металлы и сплавы металлов в стоматологии. Технологические процессы, применяемые при изготовлении зубных протезов из сплавов металлов. = Metals and alloys of metals in dentistry. Technological processes used for production of dental prostheses of metals alloys. – учеб.- метод. пособие. – Минск : БГМУ, 2017, 2018. – 40 с.

7. Полонейчик, Н. М. Полимерные материалы в стоматологии и технологические процессы, используемые при изготовлении полимерных зубных протезов = Polymer materials in dentistry and technological processes used in the fabrication of polymer dental prostheses : учеб.- метод. пособие. – Минск : БГМУ, 2018. – 44 с.

8. Полонейчик, Н. М. Формовочные материалы, применяемые в стоматологии = Investment materials applied in dentistry : учеб.- метод. пособие. – Минск : БГМУ, 2018. – 19 с.

9. Полонейчик, Н. М. Методы изготовления гипсовых моделей = Methods of working casts and die systems production : учеб.- метод. пособие. – Минск : БГМУ, 2020. – 24 с.

10. Материалы, технологические процессы и устройства, используемые для изготовления индивидуальных оттисковых ложек = Materials, technological processes and devices used for custom impression trays fabrication : учеб.-метод. пособие / Н. М. Полонейчик [и др.]. - Минск : БГМУ, 2020. – 16 с.

11. Полонейчик, Н. М. Анатомия зубов и биомеханика жевательного аппарата = Teeth morphology and biomechanics of the masticatory system : практикум учеб. заданий . – Минск : БГМУ, 2016. – 40 с.

12. Палий, Л. И. Коффердам = Rubber dam : учеб.-метод. пособие. – Минск : БГМУ, 2017, 2018 – 16 с.

13. Провизорные протезы = Provisional restorations учеб.-метод. пособие/
Н. М. Полонейчик – Минск : БГМУ, 2017, 2018– 20 с.

14. Основы профессиональной гигиены полости рта = Basics of professional oral hygiene : учеб.- метод. пособие. – Минск : БГМУ, 2019. – 31 с.

15. Чистякова, Г.Г., Петрук, А.А. Стеклоиономерные цементы в стоматологии = Glass ionomer cements in dentistry : учеб.-метод. пособие. – Минск : БГМУ, 2022 – 40 с.

METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF INDEPENDENT WORK OF STUDENTS IN ACADEMIC DISCIPLINE

The time allotted for independent work can be used by students for:
preparation for lectures and practical exercises;
preparation for colloquia, tests and exams in the academic discipline;
preparation of thematic reports, abstracts, presentations;
implementation of practical tasks;
note-taking of educational literature.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms are used competences assessment:

Oral form:

interview;
colloquium.

Written form:

tests;
control work;
abstracts;
reports on practical work.

Oral and written form:

credit;
exam.

Technical form:

electronic tests.

Simulation form:

estimation using phantoms.

LIST OF AVAILABLE TEACHING METHODS

Traditional method (lecture, laboratory practicals);

Active (interactive) methods:

training based on simulation technologies;
Problem-Based Learning (PBL).

LIST OF PRACTICAL SKILLS

1. Organization of the workplace.
2. Preparation of the dental unit, handpieces, instruments for work.
3. Selection of a handpiece and a dental rotating instrument for preparation of enamel, dentin, filling material (glass ionomer cement (GIC), chemical curing composites, light curing composites), structural material (metal alloy, plastic, ceramics).
4. Lubrication of handpieces (straight, angled, turbine), sterilization, maintenance, storage.
5. Determination of the belonging of the tooth to the anatomical group, jaw, side of the jaw.
6. Reproduction of the anatomical shape of all teeth in the drawing, in wax, filling material (GIC, chemical curing composites, light curing composites), constructional material (plastic).
7. Differentiation of radiological signs of the structure of bone tissue, periodontal tissues, tooth tissues.
8. Dosage, kneading, introduction of various filling materials into the cavity (GIC, chemical curing composites, light curing composites).
9. Dosage, kneading, making and taking an impression with various impression materials.
10. Dosage, kneading and application of various sealers for root canal obturation.
11. Standard method for brushing teeth on a phantom model.
12. Removal of dental deposits from crowns of teeth on phantoms.
13. Professional oral hygiene and flossing on a phantom model.
14. Preparation of 1, 2, 3, 4, 5 classes of cavities on the phantom.
15. Preparation and application of treatment liner.
16. Preparation and imposition of an isolation (base) liner.
17. Filling of cavities of 1, 2, 3, 4, 5 classes with various filling materials.
18. Carrying out photopolymerization of filling materials.
19. Filling of carious cavities with cements, chemical and photopolymer composites, glass ionomers, compomers.
20. Carrying out grinding, polishing of seals.
21. Carrying out antiseptic treatment of prepared cavities of various classes.
22. Restoration of the contact point.
23. The choice of filling material depending on the type of cavity, preparation method.
24. Removal of temporary and permanent fillings.
25. Opening the cavities of teeth of different groups on phantoms.
26. The imposition of devitalizing agents.
27. Possession of the technique of working with various endodontic instruments.
28. Determining the length of the root canal.
29. Carrying out endodontic preparation of the root canal using endodontic instruments.

30. Carrying out antiseptic treatment and drying of the root canal.
31. The choice of filling material for obturation of the root canal, depending on the method of endodontic preparation.
32. Filling the root canal on the phantom by manual and machine methods.
33. Unsealing the root canal on a phantom.
34. Fabrication of provisional prostheses (inlays, artificial crowns, small bridges, pin constructions) on a phantom.
35. Temporary and permanent fixation of non-removable structures on the phantom.
36. Removal of fixed structures on the phantom.

LIST OF EQUIPMENT USED

1. Model of the upper jaw, model of the lower jaw, model of the human skull with the lower jaw, dental bridge wax, modeling tools, mock-ups of teeth, tables on the anatomy of teeth, samples of modeled teeth, departmental safety instructions, safety magazine, articulator, occluder, variator, facial bow.

2. Cofferdam, a set of instruments for examination and treatment of a dental patient, a phantom simulator, a universal collapsible model, a set of abrasive instruments for tooth preparation, a micromotor, an angled handpiece, a straight handpiece, a turbine handpiece, materials for temporary fillings, materials for treatment and isolation liners, mixing pad, cotton swabs, chemical composite, light-cure composite materials, adhesive dental systems, glass ionomer cement (GIC), GIC mixing pads and spatulas, tooth shaders, gray card, fixed dentures, tooth shape charts, photopolymerizer lamps, matrices, matrix holders, wedges.

3. Milling blanks, artificial crowns from various structural materials, sets of blanks for temporary crowns, a set of abrasive tools for preparing teeth for artificial crowns, bridges from various structural materials, self-hardening plastic, alginate impression material, silicone impression material, impression trays, a set of abrasive tools for processing plastics, pin structures made of various materials, orthodontic wire, crampon forceps, anchor systems, fiberglass pins, ashless plastic pins, retraction cords, medicines for gum retraction.

4. Materials for fixing fixed structures, a set of instruments for examination and treatment of a dental patient, glasses and notebooks for mixing materials, abrasive tools for cutting crowns, crown pushers, tools for spreading the edges of an artificial crown of a lever type.

Endodontic blocks, native teeth, micromotor, abrasive tools, endodontic tools. antiseptic, endodontic syringes, endodontic rulers, cotton swabs, devitalizing agent, materials for temporary fillings, additional products for endodontics, filling materials for root canals, dental x-rays, panoramic images of the dentition, cone-beam computed tomography of the dentoalveolar system.

5. Models of jaws with imitation of dental plaque, personal hygiene products for the oral cavity, sets of scalers, sets of curettes, index interpretation tables, personal hygiene products for the oral cavity.

6. Visual aids for removable dentures, casting stages, impressions, impression materials, standard and individual trays, sets of artificial teeth

7. Dental office, dental unit, handpeases, sets of filling materials, a set of tools for examination and treatment of a dental patient, various antiseptics.

8. Equipment of the main premises of the dental laboratory: dental table. Dental table, burner, grinding motor, plaster knife, dental hammer, spatulas, scalpel (eye), tweezers, jigsaw and file set, metal scissors, tongs, files, rubber cups, articulators and occluders. Sets of abrasive materials for processing plastics, metal alloys, ceramics.

9. Polymerization equipment. Polymerizer, collapsible cuvettes, hydraulic press, λ -form of gypsum and β -form of gypsum, 3% NaCl solution, vibrating table, vacuum mixer for plaster mixing, trimmer, pins for making collapsible models, jigsaw and nail files for separating models, retention rings, insulating materials (isokol, petroleum jelly), a polishing motor for polishing, a set of brushes and puffs, polishing pastes, a sandblaster, a steam jet, a muffle furnace, scales, a casting and melting machine, a grinder with vulcanite discs for trimming the gating system, a milling cutter, various metals for casting, molding materials for surveying, scales.

10. Plaster equipment. Impression trays. Impression materials: ZOE material, spatula for cement, paper pad for preparation of ZOE material. Thermoplastic impression material, agar-agar and silicone material for duplicating plaster models (Gelin), alginate impression material, measuring cups for water and powder. Impression materials: polyester, condensed silicone, A-type silicone (0, 1, 2 and 3 viscosities). Notebook with scale and spatula for manual mixing of materials, hand mixer for cartridges, Pentamix electric mixer, measuring cups for anhydrous elastomers of 0 and 1 viscosity types.

11. Polishing equipment. One-piece models, various types of waxes (dipping waxes, lavax, base wax, modevax, wax, formodent, clasp wax 02, sticky wax, wax for bridges, sets of standard wax profiles), spirit lamps, alcohol, spatula (dental), tool kits for modeling, wax melter, insulating varnish. Ashless plastics (standard blanks, polymer composition), silicone flasks for making plastics, a brush for working with plastics.

12. Soldering equipment. Dental handpieces, sets of dental rotary instruments, magnifying glass, vernier caliper, a set of abrasive tools, dental handpieces, measuring devices, materials for duplicating plaster models, cuvette for duplicating models, cuvette for molding plastics, fusible alloy, spoon for melting fusible alloy, spirit lamp, matches, separating (insulating) materials, separating compensating materials, covering materials.

13. Foundry equipment. Dental prostheses made of metal alloys (inlays, artificial crowns, bridges, frames of cast removable dentures, implants). Removable dentures. Forms of industrial production of base plastics: hot polymerization acrylic plastics, self-hardening acrylic plastics. Fixed plastic dentures. Forms of industrial production of composite materials of chemical and light curing. Polymeric materials used for the manufacture of individual trays and mouthguards. Composite artificial teeth. Dental prostheses made using ceramic materials. Forms of industrial production of ceramic materials: ceramic powders for layer-by-layer sintering, ceramic pastes for layer-by-layer sintering, blocks for CAD / CAM technologies, blocks for casting ceramic dentures, ceramic artificial teeth.

LIST OF LECTURES

3 semester

1. Functional anatomy of the chewing apparatus. General characteristics. Anatomical shape of the teeth. Dental rows. Occlusal surface of the dentition.
2. Functional anatomy of the masticatory apparatus. Articulation and occlusion. Bite, types of bite.
3. Functional anatomy of the chewing apparatus. Biomechanics of the chewing apparatus. Movements of the lower jaw. Devices that reproduce the movements of the lower jaw.
4. Principles and main stages of preparation and filling of carious cavities.
5. Filling materials. Glass ionomer cements. Composition, properties, application.
6. Filling materials. Composite materials of chemical and light curing. Composition, properties, application.
7. Adhesive systems in dentistry.
8. Preparation of teeth for fixed constructions. Types of impressions, methods of obtaining.
9. Methods and sequence of manufacturing provisional prostheses.
10. Materials for temporary and permanent fixation of fixed prostheses. Classification, composition, properties, application.

4 semester

1. Endodontic instruments. Principles of standardization.
2. Additional methods and means for endodontic treatment of root canals of teeth.
3. Methods of mechanical treatment of root canals of teeth.
4. Methods of medical treatment of root canals of teeth.
5. Classification of filling materials for root fillings. Composition, properties and indications for use. Methods of filling root canals of teeth.
6. Mistakes and complications in endodontic treatment. Innovative methods of processing canals of teeth.
7. Prosthodontic treatment of defects in the crown part of the tooth using pin structures
8. Iatrogenic infections in dentistry. Prevention. Aseptic, antiseptic.

LIST OF PRACTICAL CLASSES

3 semester

1. Anatomy of teeth. Dental rows. Anatomy of the incisors of the upper jaw.
2. Signs of teeth that determine whether they belong to the right or left half of the dentition. Occlusal surface of the dentition. Anatomy of the mandibular incisors.
3. Articulation. Occlusion. Bite, its types. Anatomy of the canines of the upper jaw.

4. Orthognathic bite. Main and auxiliary features. Anatomy of the canines of the lower jaw.

5. Semi-physiological types of bite. Signs that determine the type of bite. Anatomy of the premolars of the upper jaw.

6. Anatomy and physiology of the periodontium. Endurance periodontium to the load. Absolute strength of chewing muscles, chewing pressure. Anatomy of the premolars of the lower jaw.

7. Vertical movements of the lower jaw. Anatomy of the first molars of the upper jaw.

8. Sagittal movements of the lower jaw. Anatomy of the second molars of the upper jaw.

9. Transversal movements of the lower jaw. Anatomy of the first molars of the lower jaw.

10. Devices that reproduce the movements of the lower jaw. Anatomy of the second molars of the lower jaw.

11. Final lesson on the topic: «Functional anatomy of the maxillofacial system».

12. Introduction to the specialty. Organization and equipment of the dental office. Basic principles of ergonomics in dentistry. Instruments for examination and treatment of teeth. Aseptic and antiseptic in dentistry. Cofferdam.

13. Filling materials. Classification, properties. Materials for temporary fillings: composition, properties, application. Liners: isolation, therapeutic, combined: composition, properties, application.

14. Classification of carious cavities according to Black. Principles of operative technique for the preparation of carious cavities. Manual technique of operations in cavities of the 1st class. Technique for working with materials for temporary fillings, therapeutic and isolation liners.

15. Filling materials. Glass ionomer cement (GIC): composition, properties, application.

16. Manual technique of operations in the cavities of the 5th class according to Black. Technique for working with GIC.

17. Adhesive systems: composition, properties, application.

18. Manual technique of operations in cavities of the 2nd class according to Black. Contact point, recovery methods, instruments.

19. Filling materials. Composites of chemical curing: composition, properties, application. Composites of light curing: composition, properties, application.

20. Manual technique of operations in the cavities of the 3rd class according to Black. Technique for working with composite materials.

21. Polymerization. Polymerization devices. Polymerization shrinkage, methods of its compensation.

22. Manual technique of operations in cavities of the 4th class according to Black. Technique for working with composite materials.

23. Methods for processing fillings from composite materials. Mistakes and complications when working with composite materials.

24. Preparation of cavities for inlays.

25. Final lesson on the topic «Filling materials for dental restorations».
26. Preparation of teeth for artificial crowns.
27. Inlays. General characteristics. Preparation of cavities for inlays, errors. Materials and methods used for making inlays.
28. Preparation of teeth for artificial crowns.
29. Artificial crowns. General characteristics. Preparation of teeth for crowns, mistakes. Materials and methods used for the manufacture of artificial crowns.
30. Methods and technique of single-session production of provisional crowns. Evaluation of the quality of fitting of artificial crowns.
31. Impression materials. Classification. Types of impressions. Technique of taking impressions, mistakes.
32. Impression technique with alginate and silicone materials.
33. Materials for fixing fixed dentures. Technique of working with fixing materials, errors.
34. Temporary and permanent fixation of fixed dentures.

4 semester

1. Dental instruments for the removal of dental deposits. Ways to remove dental plaque with tools.
2. Dental deposits. Methods and means of oral hygiene. Standard method of brushing teeth. Means of professional removal of dental deposits. OHI-S Index, definition, interpretation.
3. Endodontics. Endodontic instrumentation, its purpose. The method of opening the cavity of the tooth in the teeth of the lower jaw.
4. Anatomical and topographic features of the structure of the cavities of permanent teeth. The structure and functions of the pulp and periodontum. Endodontic instruments. Principles of standardization.
5. Endodontics. Endodontic instrumentation, its purpose. The method of opening the cavity of the tooth in the teeth of the lower jaw.
6. Methods of endodontic treatment.
7. Endodontics. The method of opening the cavity of the tooth in the teeth of the upper jaw.
8. Root canal filling methods. Efficiency criteria.
9. Endodontics. Methods of extirpation, endodontic and drug treatment of the root canal, drying.
10. Mistakes and complications in endodontic treatment. Prevention of complications.
11. Endodontics. Methods of extirpation, endodontic and drug treatment of the root canal, drying.
12. X-ray anatomy of the dentition.
13. Endodontics. Methods for filling root canals with various filling materials (manual and machine methods).
14. Final lesson on the topic «Root canal preparation, instruments, methods, techniques», «Root canal obturation, instruments, methods, techniques».

15. Endodontics. Root canal filling technique using the lateral condensation method.

16. Prosthodontic treatment of complete defects of the tooth crown with pin structures. Types of pin teeth. Cast post-and-core construction and simple pin teeth.

17. Endodontics. Root canal filling technique using the lateral condensation method.

18. Errors in the manufacture of post-and-core construction and simple pin teeth. Inside the root anchor structures.

19. Preparation of the supragingival part of the root and unsealing of root canals for pin structures.

20. Methods for the manufacture of provisional prostheses.

21. Preparation of the supragingival part of the root and unsealing of root canals for pin structures.

22. The sequence of manufacturing fixed bridges.

23. Modeling of the post-and-core construction by the direct method and the manufacture of an artificial abutment using anchors.

24. Types of impressions and impression trays. Errors in obtaining an impression. Impression materials used in the manufacture of fixed dentures.

25. Modeling of the post-and-core construction by the direct method and the manufacture of an artificial abutment using anchors.

26. Composition, properties and application of materials for temporary and permanent fixation of fixed dentures. Reasons for removing dentures Tools for removing prostheses.

27. Preparation of teeth for supporting artificial crowns of a bridge prosthesis.

28. Final lesson on the topic «Fixed dentures».

29. Obtaining a working and auxiliary impression in the manufacture of a bridge prosthesis.

30. The sequence of manufacturing partial and complete removable dentures.

31. Fabrication of a provisional bridge with matrix technology. Fixation and removal of fixed dentures.

32. The sequence of manufacturing supported prostheses.

33. Fabrication of a provisional bridge with matrix technology. Fixation and removal of fixed dentures.

34. Final lesson on the topic «Removable dentures».

35. Composite materials chemo- and light-cure. Composition, properties, application. Adhesive systems.

36. Final lesson on practical skills.

**PROTOCOL OF THE CURRICULUM APPROVAL
BY OTHER DEPARTMENTS**

Title of the discipline requiring approval	Department	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum (date, protocol #)
1. Prosthetic Dentistry	Prosthetic Dentistry	No offers	protocol # 14 of 13.06.2022
2. Medical and Biological Physics	Medical and biological physics	No offers	protocol # 14 of 13.06.2022
3. Medical Chemistry	General chemistry	No offers	protocol # 14 of 13.06.2022
4. Bioorganic Chemistry	Bioorganic chemistry	No offers	protocol # 14 of 13.06.2022

COMPILERS:

Associate Professor of the Department of General Dentistry of the educational institution «Belarusian State Medical University», PhD, Associate Professor



N.A.Gres

Associate Professor of the Department of General Dentistry of the educational institution «Belarusian State Medical University», PhD, Associate Professor



N.M.Poloneichik

Associate Professor of the Department of General Dentistry of the educational institution «Belarusian State Medical University», PhD, Associate Professor



F.R.Tagiyeva

Associate Professor of the Department of General Dentistry of the educational institution «Belarusian State Medical University», PhD, Associate Professor



G.G.Chistyakova

Associate Professor of the Department of General Dentistry of the educational institution «Belarusian State Medical University», PhD, Associate Professor



A.A.Petrouk

Associate Professor of the Department of General Dentistry of the Educational institution «Belarusian State Medical University», PhD



Yu.M.Kazakova

Curriculum content, composition and the accompanying documents comply with the established requirements.

Dean of the Medical Faculty for International Students of the educational institution «Belarusian State Medical University»

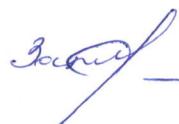
28.06.2022



O.S.Ishutin

Methodologist of the educational institution «Belarusian State Medical University»

28.06.2022



S.V.Zaturanova

Information about the authors (compilers) of the curriculum

Full Name	Gres Nonna Arkadijevna
Position, academic degree, academic title	Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University» PhD, Associate Professor
 official	
Full Name	Poloneichik Nikolai Mikhailovich
Position, academic degree, academic title	Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University» PhD, Associate Professor
 official	
Full Name	Tagieva Farida Raufovna
Position, academic degree, academic title	Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University» PhD, Associate Professor
 official	
Full Name	Chistyakova Galina Gennadijevna
Position, academic degree, academic title	Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University» PhD, Associate Professor
 official	
Full Name	Petrouk Alla Alexandrovna
Position, academic degree, academic title	Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University» PhD, Associate Professor
 official	
Full Name	Kazakova Yulia Mikhailovna
Position, academic degree, academic title	Associate Professor of the Department of General Dentistry of the Educational Establishment «Belarusian State Medical University» PhD
 official	

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical classes
1. Functional anatomy of the maxillofacial system	4	55
1.1. General and private anatomy of teeth	1	10
1.2. Bite, its types	1	15
1.3. Biomechanics of the chewing apparatus	2	30
2. Odontopreparation of the crown part of the tooth with subsequent restoration with restorative materials	6	70
2.1. Preparation and filling of cavities according to Black	2	35
2.2. Filling materials for dental restorations	4	35
3. Odontopreparation of the crown part of the tooth with subsequent restoration of prosthetic structures	7	130
3.1. Preparation of teeth on phantoms for fixed structures (inlays, crowns, bridges, pin structures)	3	30
3.2. Methods, technique and stages of manufacturing non-removable (fixed) structures	2	55
3.3. Technique for obtaining impressions in the manufacture of fixed dentures	2	30
3.4. Fixation and removal of fixed dentures	-	15
4. Root canal preparation and obturation	6	70
4.1. Root canal preparation, instruments, methods, techniques	3	30
4.2. Root canal obturation, instruments, methods, techniques	3	35
4.3. X-ray anatomy of the dentition	-	5
5. Basics of professional oral hygiene	1	10
5.1. The mechanism of formation of dental deposits. Basics of individual oral hygiene	1	5
5.2. Stages and methods of professional oral hygiene	-	5
6. Clinical features and stages of manufacturing removable dentures	-	15
Total hours	24	350