

Ukraine Ministry of Health
Kharkiv National Medical University
Faculty of Dentistry
Department of Pediatric Dentistry and Implantology
Educational Program for Training Specialists of the Second (Master's)
Level, Higher Education Training 22 "Healthcare"
in Specialty 221 "Dentistry"

SYLLABUS OF THE COURSE

PROPEDEUTIC PEDIATRIC THERAPEUTIC DENTISTRY
2^d year

Compulsory or elective educational component _____ compulsory _____

Mode of the educational component _____ off-line _____
(off-line; mixed; on-line)

Field of knowledge _____ 22 "Healthcare" _____
(code and name of the field of knowledge)

Specialty _____ 221 «Dentistry» _____
(code and name of the specialty)

Educational and professional program _____ «Dentistry» _____

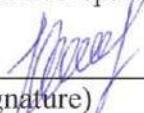
Of the second (master's) level of higher education

Course _____ second _____

The syllabus of the discipline was approved at the meeting of the Department of Pediatric Dentistry and Implantology

Protocol from
"30" August 2021 № 1

Head of Department


 _____ prof. Nazaryan RS
(signature) (surname and initials)

"30" August 2021

Approved by the methodical commission of KhNMU on problems of professional training dental profile

Protocol from
"02" September 2021 year №4

Chairman of the methodical commission of KhNMU on problems of professional training dental profile

 _____ prof. Ruzin GP
(signature) (surname and initials)

"02" September 2021

Kharkiv -2021

Developers: Nazaryan Rozana Stepanovna, Iskorostenska Olga Volodumirivna., Mys Victoria Oleksandrivna

Teachers: Kuzina V.V., Fomenko Y.V., Iskorostenska O. V., Mikulinska-Rudich Y. M., Mys V. O., Zapara S.F., Vlasov O.V., Tischenko O.V., Tkachenko M.V.

Teacher information:

Nazaryan R.S. - Doctor of Medical Sciences, Professor, Head of Pediatric Dentistry and Implantology Department of, specialization Pediatric Dentistry, Surgical Dentistry, Therapeutic Dentistry, Orthodontics.

Kuzina V.V. - Doctor of Philosophy, Associate Professor of Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Fomenko Y.V. Doctor of Philosophy, Associate Professor Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Mikulinska-Rudich Y. M. Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Mys V. O. Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Tischenko O.V. Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Zapara S.F. Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Vlasov O.V. Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Tkachenko M.V. Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry,

Contact E-mail of the department: kaf.st.dytiachoist@kntmu.edu.ua

Full-time consultations: schedule and place according to the schedule of the department.

On-line consultations: schedule and place by prior arrangement with the teacher

Location: classes are held in the UDC KhNTMU.

Information about Discipline

1. The discipline's description

"Propedeutic pediatric therapeutic dentistry"
for English-speaking 2th year students of the dental faculty

Total hours: 90/3

(lectures - 10 hours, practical classes - 30 hours, ISW - 50 hours)

Name of indicators	Field of knowledge, direction of training, educational and qualification level	Characteristics of the discipline	
		full-time education	evening form of study
Number of credits - 3,0	Training direction <u>22 "Healthcare"</u> (code and name)	Normative	
Total number of hours – 90	Specialty: <u>221 "Dentistry" masters</u> (code and name)	Year of study:	
		2-th	-
		Semester	
		3-th	-
Hours for full-time education (or evening) form of study: classrooms - 40 independent student work – 50	Education level: Specialist of the second (master's) level	Lectures	
		10 h.	-
		Practical, seminar	
		30 h.	-
		Laboratory	
		-	-
		Independent work	
		50 h.	-
Individual tasks: -			
Type of control: differential credit			

Educational program of higher education of Ukraine, second (master's) level, educational qualification, assigned - master's degree, field of knowledge - 22 Healthcare, specialty 221 "Dentistry" is based on the Law of Ukraine "«Про вищу освіту» and the resolution of the Cabinet of Ministers of Ukraine 01.02.2017 № 53 «Про внесення змін до постанови Кабінету Міністрів України від 29.04.2015 р. № 266» ", in accordance with the order of the Ministry of Education and Science of Ukraine dated 01.06.2016 № 600 «Про затвердження та введення в дію Методичних рекомендацій щодо розроблення стандартів вищої освіти»."

The program of the course determines the prerequisites for access to education, orientation and main focus of the program, the amount of ECTS credits required for a master's degree, a list of general and special (professional) competencies, normative and variable content of training, formulated in terms of learning outcomes and control requirements quality of higher education.

The department accepts qualified students of any race, national or ethnic origin, sex, age, people with special needs, any religion, sexual orientation, gender, veteran status or marital status for all rights, privileges, programs and activities, provided to university students.

Moodle discipline page: <http://31.128.79.157:8083/course/index.php?categoryid=175>

2. The purpose and objectives of the discipline

The purpose of the study of "Propedeutic pediatric therapeutic dentistry" is determined by the ultimate goals set on the basis of the OPP of training a doctor in the specialty in accordance with the block of its units and is the basis for building the content of the discipline. The description of goals is formulated through skills in the form of target tasks (actions). On the basis of the ultimate goals for each final control or unit, specific goals are formulated in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of studying the discipline.

3. Discipline status: the main format of the discipline is mixed - a discipline that has support in the Moodle system, teaching the discipline, combines traditional forms of classroom learning with elements of distance learning, which uses available interactive information technology (ZOOM, Moodle), face-to-face and distance counseling

4. Methods of training. Clinical (curation of children with dental diseases), on phantoms, digital information (presentations, video materials, methodical recommendations, lectures), scientific (participation in scientific researches in the discipline), control (tests, situational tasks, assessment of practical skills defence a case history) are used for carrying out the lessons

5. Recommended literature

1. Khomenko L.A. Therapeutic pediatric dentistry , Київ, Книга плюс, 2001.- 524р.
2. Khomenko L.A, Bidenko N.V. Practical endodontics tools, materials and methods. - Киев, Книга плюс, 2002.- 216р.
3. Bidenko NV Glass ionomer materials and their application in dentistry Киев, Книга плюс, 2003.-144р.
4. Danilevsky M.F., Grokholsky A.P., Politun A.M. Workshop on therapeutic dentistry (phantom course), Львів „Світ”, 1993.- 184р.
5. Magid E.A., Mukhin N.A. Phantom course of therapeutic dentistry. Atlas. - М.: Медицина, 1978.- 304 Khomenko L.A.and singing. Therapeutic dentistry for children, Київ, Книга плюс, 2001.- 524р.
6. Vorisenko A.V. Composite filling materials, Киев, Книга плюс, 1998.
7. Vorovsky V.V., Zhokhova N.S. Endodontic treatment (manual for doctors) Москва, Стоматология, 1997.- 64р.
8. Lukinuch L.M. Dental caries (etiology, clinic, treatment, prevention) - Нижний Новгород, НГМА, 1999.- 186р.

6. Prerequisites and co-requisites of the discipline

The discipline "Propedeutic pediatric therapeutic dentistry" is related to the disciplines of anatomy and morphology, pathological anatomy, therapeutic dentistry, propaedeutics and prevention of dental diseases in children.

6. Learning outcomes

As a result of studying the discipline "Propedeutic pediatric therapeutic dentistry" the student must be able to:

Demonstrate on phantoms:

preparation of carious cavities of temporary and permanent teeth, taking into account the type of filling material;

filling of carious cavities of temporary and permanent teeth with various filling materials;

grinding and polishing of fillings from all types of materials used at children's dental reception;

application and removal of temporary fillings and airtight bandages in the treatment of caries, pulpitis, periodontitis in children;

impregnation of hard tissues of temporary teeth;
 application of odontotropic pastes;
 impregnation of root canals;
 instrumental treatment of canals of temporary and permanent teeth;
 filling of root canals of temporary and permanent teeth with different materials. Demonstrate on phantoms the ability to use basic dental tools, materials and use dental equipment in pediatric dentistry;
 to get acquainted with the structure of the children's dental office, department, clinic;
 master the dental equipment of the children's dental clinic;
 to study the basic dental tools used in pediatric dental practice;
 to study the classification of dental filling materials, materials for root fillings used in children;
 determine the basic requirements for dental materials, their properties and indications for use in children;
 Distinguish the features of the application of the principles in asepsis and antiseptics in the clinic of pediatric therapeutic dentistry.
 to study modern requirements for sterilization of instruments in the pediatric dentistry clinic;
 understand the rules of asepsis and antiseptics at the children's dental office;
 master the rules of control over the effectiveness of sterilization;
 identify methods to prevent conditions for the spread of infection in children's institutions.

The content of the discipline

1. Thematic plan of lectures (Number of hours - 10)

№ п/п	Тема	Кіль- кість годин
1.	Historical stages in the development of pediatric dentistry. Management of a dental office. Equipment, dental instruments. Infection control in dental office	2
2.	Anatomical, morphological, histological and rentgenological features of primary and permanent teeth in children.	2
3.	Peculiarities of the preparation and filling carious cavities different classes of primary and immature permanent teeth	2
4.	Main physico-chemical and biological properties of filling materials in pediatric dentistry. Dental amalgams. Dental cements. Composite filling materials.	2
5.	Peculiarities of endodontic treatment primary and permanent teeth with unformed roots. Classification of endodontic instruments, their indication and application. Filling techniques for root canals of the primary and permanent teeth.	2
	Total	10

**2. Thematic plan of practical classes
(Number of hours - 30)**

№	Topic	Acad.hrs
1	Introduction in pediatric dentistry. Organization of work and equipment of dental office. Universal dental unit, dental handpieces. Basic dental instruments for therapeutic manipulation . Infection control in dental office. Disinfection and sterilization methods of dental equipment and basic dental instruments.	4
2	Topographical anatomy of primary teeth at different stages of development. Topographical anatomy of permanent teeth at different stages of development. Making teeth from plastic materials.	4
3	Preparation of carious cavities classes I, II, III, IV and V in primary and permanent teeth with the unformed root. Selection of instruments.	4
4	Dental cements and amalgam. Filling techniques of carious cavities classes I, II and V in primary and permanent teeth with the unformed root with dental cements and amalgam. Restoration of proximal contact and tooth crown anatomy.	4
5	Composite filling materials and compomers. Filling technique for classes I, II and V cavities in primary and permanent teeth. Technique of filling of carious cavities of class III and IV in primary and permanent teeth for children with application of composite filling materials.	4
6	Techniques of preparing of the tooth cavity in primary and permanent teeth with the unformed root. Modern endodontic instruments: types, indications, choice. Techniques of Instrumentation, medication of root canals in primary and permanent teeth with the unformed root.	4
7	The root filling The technique of root canal filling of primary and permanent teeth with the unformed root. Filling materials for temporary and permanent obturation of root canal.	4
8	<i>Final control</i>	2

**3. Independent work
(Total hours - 50)**

№ п/п	Topic	Number of hours	Types of control
1.	Preparation for practical classes (theoretical, development of practical skills, abilities), topic numbers: 1 - 9	38	Current, During practical classes
2.	Independent elaboration of topics that are not included in the classroom plan, topics: 1 - 6		
	1. Modern concepts of preparation of carious cavities: principles of preparation according to Black, Lukomsky, Mount, preparation for preventive filling. Alternative methods of removal of cariously affected	2	Current, During practical classes

	tissues (chemical-mechanical preparation of carious cavities in children, ART-technique)		
	2. Modern matrix systems and matrix holders. Technique of restoration of a contact point at filling of teeth.	2	Current, During practical classes
	3. Finishing of seals from different sealing materials: the choice of tools, accessories, technique.	2	Current, During practical classes
	4. Modern photopolymerizers: types, purpose, control of lamp power. Protective equipment for doctor and patient.	2	Current, During practical classes
	5. Modern materials for permanent obturation of root canals in permanent teeth. Calcium-containing, polymeric, glass ionomer, zinc oxide deugenol. Their properties, application technique.	2	Current, During practical classes
	6. Adhesive systems and their application in dentistry. Types, composition, properties, application technique.	2	Current, During practical classes
	Total	50	

Discipline policy and values.

In order to successfully complete the relevant course, it is necessary to regularly attend practical classes; to have theoretical preparation for practical classes, according to the subject; not to be late and not to miss classes; perform all necessary tasks and work in each lesson; be able to work with a partner or in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Students can discuss different tasks, but their performance is strictly individual. You are not allowed to write off, use any kind of software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the learning process. Students are not allowed to be late for practical classes.

Visiting patients during the curation in the hospital is possible, provided that students have the appropriate uniform, a health book with a note about the timely medical examination.

Students with special needs can meet with the teacher or warn him before the start of classes, it can be done by the head of the group on the students request. If you have any questions, please contact the teacher.

Students' participation in research and conferences on this topic is encouraged

All students of KhNMU are protected by the Regulations on prevention and settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to determine an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. on the basis of the following regulations of Ukraine: Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Prevention and Counteraction of Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for

Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation № 25 to Article 4, paragraph 1, of the Convention on the Elimination of All Forms of Discrimination against Women, General Comment № 16 (2005)

"Equal rights for men and women to use economic, social and cultural rights" (Article 3 of the International Covenant on Economic, Social and Cultural Rights; Committee on Economic, Social and Cultural Rights of the United Nations); education in the spirit of respect for human rights and fundamental freedoms (UNESCO), the Concept of the State Social Program for Equal Rights and Opportunities for Women and Men until 2021. Kharkiv National Medical University ensures education and work, that is free from discrimination, sexual harassment, intimidation or exploitation. The University admits the importance of confidentiality. All persons, responsible for the implementation of this policy, (staff of deans' offices, faculties, institutes and the Center of Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential, regarding those, who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities, granted to students or staff of the University, apply to anybody, without exception, in case they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Codex of Corporate Ethics and the Charter of KhNMU.

The rules of behavior in University and on classes

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all teachers and staff and are not fundamentally different from the generally accepted norms.

During classes it is allowed:

- leave the audience for a short time if necessary and with the permission of the teacher;
- drink soft drinks;
- take photos of presentation slides;
- take an active part in the class

Forbidden:

- eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);
- smoking, drinking alcohol and even low-alcohol beverages or drugs;
 - use obscene language or use words that offend the honor and dignity of colleagues and faculty;
 - gambling;
- to damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

Plagiarism and academic integrity

The Department of Pediatric Dentistry and Implantology maintains zero tolerance for plagiarism. Students are expected to constantly raise their awareness of academic writing. The first lessons will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

Occupational Safety control

At the beginning of the first lesson of the course the teacher will explain the basic principles of labor protection by conducting appropriate training. It is expected that everyone should know where the nearest evacuation exit is, where the fire extinguisher is, how to use it, and so on. The procedure for informing about changes in the syllabus: the necessary changes in the syllabus are approved by the methodical commission of KhNMU on the problems of professional training of dental profile and published on the website of KhNMU, the website of the Department of Pediatric Dentistry and Implantology of KhNMU.

Policy of learning activities assessment

Assessment of current learning activities (CLA)

When assessing the mastery of each topic of the discipline and for the final lesson (FL), the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" or "unsatisfactory".

The final score for the current learning activity (CLA) and the final lesson (FL) is defined as the arithmetic mean of the traditional grades for each class and FL, rounded to 2 decimal places and listed in a multi-point scale according to the standard table.

Assessment of the final lesson

The final lesson (FL) is conducted in accordance with the curriculum of the discipline and thematic plane, during classes

To help prepare for the final lesson, the following materials are available at the information stand of the department:

- basic tasks ("Krok 2. Dentistry");
- list of theoretical questions;
- list of practical skills;
- a list of drugs, for prescriptions;
- list of medical records for dentistry;
- criteria for assessing the knowledge and skills;

Differential credit

Exam in the discipline "Propedeutic pediatric therapeutic dentistry" is a process during which the following are checked:

- level of theoretical knowledge;
- development of creative thinking;
- skills of independent work;
- competencies - the ability to synthesize the acquired knowledge and apply them in solving practical problems.

The following materials for preparation for the differential credit are presented at the information stand of the department

- basic tasks ("Krok 2. Dentistry");
- list of theoretical questions;
- list of practical skills;
- a list of drugs, for prescriptions;
- list of medical records for dentistry;
- criteria for assessing the knowledge and skills of students;
- schedule of consultations on the discipline during the semester.
- schedule of exam's consultations

If the exam is not passed, the rescheduling dates are set for vacation time, until the beginning of the next semester.

Assessment of individual student tasks

At the meeting of the department should be approved a list of individual tasks (participation in reports at student conferences, profile competitions, preparation of analytical reviews with

presentations) with the definition of the number of points for their implementation, which can be added as incentives (not more than 10).

Points for individual tasks are awarded to the student only by the commission (commission - head of the department, head teacher, group teacher), once, only under the conditions of their successful implementation and defense. The total amount of points for CLA may not exceed 120 points.

Assessment of students' independent work

Assimilation of topics that are submitted only for independent work is checked during the final lesson and differential credit.