

MINISTRY OF HEALTHCARE OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Therapeutic Dentistry  
Educational year 2021-2022

**EDUCATIONAL DISCIPLINE SYLLABUS**

«FUNDAMENTALS OF DENTISTRY»  
(name of the academic discipline)

Normative or elective educational component \_\_\_\_\_ elective \_\_\_\_\_

Format of educational component \_\_\_\_\_ internal \_\_\_\_\_  
(internal; hybrid; distant)

Field of knowledge \_\_\_\_\_ 22 "Health care"  
(code and name of the field of knowledge)

Specialty \_\_\_\_\_ 222 "Medicine" - the second master's level  
(code and name of specialty)

Specialization (by availability) \_\_\_\_\_

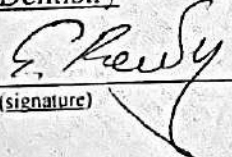
Educational and professional program "Medicine" second (master's) level of higher education

Course 5<sup>th</sup>

The syllabus of the discipline was approved at the Department of Therapeutic Dentistry meeting

Protocol from  
"30<sup>th</sup>" of August 2021 № 22

Acting Head of the Department of Therapeutic Dentistry

  
(signature)

prof. Y.M. Ryabokon  
(surname and initials)

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

Protocol from  
"02<sup>nd</sup>" of September 2021 № 4

The Chairman

  
(signature)

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**Face-to-face consultations:** by prior arrangement;

**Online consultations:** Moodle system, ZOOM system, GOOGLE MEET system according to the schedule;

**Location:** classes are held in the conditions of UDC KhNMU, remotely-in the ZOOM, GOOGLE MEET or MOODLE systems.

## INTRODUCTION

**Educational discipline syllabus** «Fundamentals of dentistry» was prepared in accordance with educational and professional program (hereinafter referred to as “EPD”) “Medicine” and Ukraine Standards for higher education (here in after referred to as “Standard”), second (master’s) level, knowledge 22 “Health care”, specialty 222 “Medicine” - the second master’s level.

Educational and professional program "Medicine" second (master's) level of higher education in the specialty 222 "Medicine" - the second master's level, Branch of knowledge 22 Health care Qualification: Master of Medicine is based on:

1. Law of Ukraine "About the Higher Education" 01.07.2014 No. 1556-VII.
2. Law "About Education" of Ukraine 05.09.2017 No. 2145-VIII.
3. Resolutions of the Cabinet of 29.04.2015 No. 266 "About the approval of the list of the industries of knowledge and specialties on which training of applicants of the higher education is carried out.
4. Resolutions of the Cabinet of Ukraine of 28.03.2018 No. 334 "About the Statement of the Procedure of a Uniform State Qualification Examination for Applicants of Educational Degree of the Master in Specialties of the Industry of Knowledge" Health care "".
5. Resolutions of the Cabinet of 23.13.2013 No. 11341 "About the statement of the National frame of qualifications".
6. National qualifier of Ukraine: "The qualifier of professions" of recreation center 003:2010//Sotsinform Publishing house - To.: 2010.
7. Order of the Ministry of Economic Development and Trade of Ukraine of November 18, 2014 No. 1361 "About the adoption of change in the national qualifier of Ukraine of recreation center 003:2010" (change No. 2).
8. The order of the Ministry of Education and Science of Ukraine of 24.06.2019 the No. 879 "About the Approval of the Standard of the Higher Education in the Specialty 221" Stomatology "for the second (master) level of the higher education.

The course program 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, gender, 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.

### **Description of the discipline (abstract).**

Fundamentals of Dentistry - a preparatory clinical course, the methods of which are aimed at the formation of knowledge and skills that contribute to the mastery of the discipline "Fundamentals of Dentistry".

The syllabus is organized with the application of modern pedagogical principles of organization of the educational process of higher education.

**The subject** of study of the discipline is the integration of pre-clinical and clinical disciplines, a holistic approach to understanding the peculiarities of the course and further conduct of inflammatory, destructive and productive processes in the maxillofacial area.

Teaching is based on the principles of evidence-based medicine using current standards (guidelines) of world professional societies.

The course covers the main practical and theoretical aspects of the future pediatrician, neonatologist, family doctor.

**Interdisciplinary links:** the study of the basics of dentistry is based on previously acquired knowledge of students in human anatomy, medical biology, pathological anatomy, pathological physiology, pharmacology, medical radiology, dermatovenereology, propaedeutics of internal medicine, internal medicine, surgical diseases and integrates with these disciplines.

**Prerequisites.** The study of the discipline involves the prior mastering of credits of basic clinical disciplines and the availability of a sufficient level of education to master the issues of the discipline program.

**Postrequisites.** The main provisions of the discipline should be applied in the study of professional disciplines, is the basis for preparation for the licensing exam EDKI, preparation for study in higher education institutions in the programs of the third educational and scientific level of higher education.

**Educational discipline MOODLE website**

<http://distance.knmu.edu.ua/course/index.php?categoryid=51>

## **1. THE PURPOSE AND OBJECTIVES OF THE EDUCATIONAL DISCIPLINE**

- 1.1. The purpose** of studying the discipline is to study the basics of dentistry in its main sections (pediatric dentistry and prevention of dental diseases, therapeutic dentistry, surgical dentistry), with emphasis on studying the principles of emergency treatment and prevention of major and most common diseases of the maxillofacial area. Provide training for highly qualified specialists in the field of pediatrics, able to solve complex problems of diagnosis and treatment of children with dental pathology.
- 1.2. The main tasks** of studying the discipline are the acquisition by students of competencies in accordance with the general and professional competencies of the educational-professional program "Medicine" of the second level of higher education in the specialty 222 "Medicine" – masters.
- 1.3. Competence and the result of the elective course**, the formation of which is facilitated by discipline (interrelation with the normative basis for the training of applicants for higher education, formulated in education result terms in EPD and Standard).

**1.3.1.** In accordance with the requirements of the standard, the discipline provides students with the acquisition of **competencies:**

### **integral:**

ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

### **general:**

ability to abstract thinking, analysis and synthesis, ability to learn and be modernly trained; ability to apply knowledge in practical situations; knowledge and understanding of the subject area and understanding of professional activity; ability to adapt and act in a new situation; ability to make an informed decision; work in a team; interpersonal skills; ability to communicate in the state language both orally and in writing; ability to communicate in a foreign language; skills of using information and communication technologies; determination and persistence in terms of tasks and responsibilities; the desire to preserve the environment; ability to act socially responsibly and consciously.

### **special (professional, subject):**

survey skills; ability to determine the necessary list of laboratory and instrumental studies and evaluate their results; ability to establish a preliminary and clinical diagnosis of the disease; ability to determine the necessary mode of work and rest, the nature of nutrition in the treatment of diseases; ability to determine the principles and nature of disease treatment; ability to diagnose emergencies; ability to determine tactics and skills of emergency medical care; skills of performing medical manipulations; ability to plan and carry out sanitary and hygienic, preventive and anti-epidemic measures, including on infectious diseases; ability to determine the tactics of management of persons subject to dispensary supervision; ability to keep medical records; ability to conduct epidemiological and medical-statistical studies of public health; ability to assess the impact of the environment on the health of the population (individual, family, population); ability to analyze the activities of a doctor, department, health care institution; ability to take measures to ensure the quality and safety of medical care; ability to carry out activities for the organization and integration of medical care and marketing of medical services.

**1.3.2.** The study of the discipline provides students with the acquisition of the following **program learning outcomes:**

**PLO 1** - acquisition by a person of general and special fundamental and professionally-oriented knowledge, skills, abilities, competencies necessary for the performance of typical professional tasks related to his / her activity in the medical field in the relevant position;

**PLO 2** - knowledge of psychophysiological features of the person, human health, health support, disease prevention, human treatment, public health;

**PLO 3** - the ability to apply the acquired knowledge, skills and understanding to solve typical problems of the doctor, the scope of which is provided by lists of syndromes and symptoms, diseases, emergencies, laboratory and instrumental studies, medical manipulations;

**PLO 4** - collection of information about the patient;

**PLO 5** - evaluation of survey results, physical examination, laboratory and instrumental research data;

**PLO 6** - establishing a preliminary clinical diagnosis of the disease;

**PLO 7** - determination of the nature, principles of treatment of diseases;

**PLO 8** - determination of the necessary diet in the treatment of diseases;

**PLO 9** - determining the tactics of contingent of persons subject to medical supervision or in need of palliative care;

**PLO 10** - diagnosing emergencies, determining the tactics of emergency medical care;

**PLO 11** - carrying out sanitary and hygienic and preventive measures;

**PLO 14** - determination of tactics of physiological childbirth and the postpartum period

**PLO 15** - performance of medical manipulations;

**PLO 17** - maintenance of medical documentation, processing of state, social and medical information;

**PLO 18** - the ability to assess human health and provide its support taking into account the impact of the environment and other health factors

**PLO 19** - the ability to assess the sanitary and hygienic condition of the environment in order to determine the sanitary and hygienic and preventive measures;

**PLO 20** - the ability to apply the acquired knowledge of the existing health care system to optimize their own professional activities and participate in solving practical problems of the industry;

**PLO 21** - the formation of a specialist with appropriate personal qualities, who adheres to the code of ethics of the doctor.

**1.3.3.** The study of this discipline forms in students of **social skills (soft skills):**

- communication (implemented through: the method of working in groups and brainstorming during the analysis of clinical cases, the method of presenting the results of independent work and their protection in the group),
- teamwork (implemented through: group work method and brainstorming during the analysis of clinical cases),
- conflict management (implemented through: business games),
- time management (implemented through: the method of self-organization during classroom work in groups and independent work),
- leadership skills (implemented through: the method of presenting the results of independent work and their defense in the group).

**Discipline status: normative; *The format of the discipline is mixed*** - a discipline that has support in the Moodle system, teaching the discipline involves a combination of traditional forms of classroom learning with elements of distance learning, which uses available interactive information technology (ZOOM, Moodle, GOOGLE MEET), face-to-face and distance counseling.

**Teaching methods.**

Clinical (curation of patients with dental pathology), phantom, electronic information (presentations, video materials, methodical recommendations, lectures), scientific (participation in scientific developments in the discipline), control (tests, situational tasks, assessment of practical skills, defense of the clinical case).

## 2. INFORMATION SCOPE OF THE DISCIPLINE

### 2.1. Description of the discipline

Name of indicators	Branch of knowledge, specialty, educational and qualification level	Characteristic of the discipline
		<b>full-time education</b>
The number of credits - 3.0	Branch of knowledge <u>22 "Health care"</u> (code and name of the field of knowledge)	Elective discipline
The total number of hours is - 90	Specialty: <u>222 "Medicine" - the second master's level</u> (code and name of the specialty)	<b>Year:</b> <b>5<sup>th</sup> year</b>
		<b>Semester</b> <b>9<sup>th</sup>, 10<sup>th</sup></b>
Hours for full-time study: Auditory - 20 independent student work - 70	Educational and qualification level: <u>THE SECOND MASTER'S LEVEL</u>	<b>Lectures</b> -
		<b>Practical</b> 20 hours
		<b>Laboratory classes -</b>
		<b>Independent student work</b> 70 hours
		<b>Individual tasks</b>
		<b>Type of control</b> <b>Credit</b>

### 2.2.1. Lectures

Not provided for in the curriculum.

### 2.2.2. Topics of seminars.

Not provided for in the curriculum.

### 2.2.3. Topics of practical classes of the elective course "Therapeutic dentistry"

#### Thematic plan of practical classes of section 4

№	Name of the topic	Number of hours	Teaching methods	Control forms
1.	Organization of dental care for the population in Ukraine. The main stages of development of temporary and permanent teeth. Terms and signs of physiological teething. Tooth and maxillofacial anomalies and deformities. Congenital malformations of the teeth. Caries of temporary and permanent teeth in children: causes of development, basic clinical signs, principles of treatment. Periodontal tissue diseases in children: gingivitis, periodontitis, periodontal syndrome. Causes of development, clinical signs of diseases, principles of treatment. Manifestations of infectious and somatic diseases of children in the oral cavity. Prevention of caries and periodontal disease. The main measures of primary prevention of dental diseases. Characteristics of modern means for hygienic care of the oral cavity.	5	story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, computer training	current control
2.	Differential diagnosis of pain syndrome in therapeutic dentistry. Emergency aid. Diseases of the hard tissues of the tooth, pulp and periodontium. Periodontal tissue diseases: clinic, prevention and principles of treatment. Relationship of periodontal diseases with pathology of organs and systems (digestive, endocrine, cardiovascular, nervous). Diseases of SOPR. Viral and bacterial lesions of SOPR. Differential diagnosis of ulcers of different genesis on SOPR. Risk factors for cancer.	5	story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, computer training	current control
3.	Anesthesia in maxillofacial surgery. Inflammatory processes of the maxillofacial area. Benign, malignant neoplasms of the maxillofacial area. Damage to soft tissues and bones of the maxillofacial area. Craniofacial trauma	5	story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, computer training	current control
4.	<b>Final control</b>			Credit (including computer training)
	<b>Totally</b>	<b>20</b>		

### 2.2.4. Topics of laboratory classes.

Not provided for in the curriculum.



### 2.2.5. Independent work.

№	Topic	Number of hours	Teaching methods	Control forms
1.	Preparation for practical classes - theoretical training and development of practical skills.	15	videos, webinar, virtual consultation, computer training	current control
2.	Independent work on topics that are not included in the lesson plan:			
2.1.	Oral sepsis (chroniosepsis). The role and influence of dental diseases on the development of systemic diseases of the body.	5	videos, webinar, virtual consultation, computer training	offset
2.2.	Occupational lesions of SOPR, periodontal tissues and teeth. Environmental, industrial and household factors in the development of dental diseases.	5	videos, webinar, virtual consultation, computer training	offset
3.	Individual VTS - review of educational and methodical literature, writing essays, conducting research.	25	videos, webinar, virtual consultation, computer training	essays, report, speech on a given topic, poster report
4.	Preparation for the final control	20	videos, webinar, virtual consultation, computer training	offset
<b>Total</b>		<b>70</b>		

**Tasks for independent work:** preparation for practical classes - theoretical training and development of practical skills; preparation for final control - theoretical training and development of practical skills; individual SRH - review of educational and methodical literature, writing essays, conducting research.

## Teaching methods

**Teaching methods** are tested and systematically functioning ways of interconnected activity of those who teach (teaching methods) and those who learn (teaching methods), aimed at solving certain educational, upbringing and developmental tasks in the educational process.

The following teaching methods are used in the study of the discipline:

- **verbal** (lecture, explanation, story, conversation, instruction);
- **visual** (observation, illustration, demonstration);
- **practical** (different types of exercises, graphic work, experiment, practice).
- **explanatory-illustrative or information-receptive**, which provide for the presentation of ready-made information by the teacher and its assimilation by students;
- **reproductive**, which is based on the performance of various tasks on the model;
- **method of problem presentation**, which is that the teacher poses a problem and solves it himself, demonstrating the contradictions that characterize the process of cognition, while the task of students is to control the sequence of presentation of material, materiality of evidence, predicting the next steps of the teacher; this MN is realized by training students in problem situations for the purpose of successful preliminary preparation for future work in real conditions of practical medical institutions;
- **partial-search or heuristic**, aimed at mastering certain elements of search activity, for example: the teacher formulates a problem, students - a hypothesis;
- **research**, the essence of which is to organize the teacher search creative activities of students by setting new problems and problems.

Teaching methods can also be divided into:

- methods that provide **perception and assimilation** of knowledge by students (lectures, independent work, instruction, consultation);
- methods of **applying knowledge and acquiring and consolidating skills and abilities** (practical classes, control tasks, work in the clinic, practice);
- methods of **testing and assessing knowledge, skills and abilities**;
- methods of **encouragement and punishment**.

It should be remembered that the maximum effectiveness of training can be achieved only with a rational (systemic) combination of different methods.

## Policy assessment

### Control methods

The general purpose of control is subordinated to the main task - to ensure a high theoretical and scientific level of educational work and, consequently, quality training. The specific purpose of control is to determine the quality of learning material, the degree of compliance of the formed competencies with the goals and objectives of teaching the discipline.

**Principles of control:** comprehensive nature, systematicity, purposefulness, objectivity, efficiency, unity of requirements, constant improvement of all its forms and methods.

The effective functioning of the system of pedagogical control requires compliance with certain conditions:

- teachers and students, assessing the state of educational work, act on the only agreed criteria, the justification of which is known to all in advance;
- assessments obtained as a result of control are considered inviolable, are not in doubt both by those who control and by those who are controlled, as they are based on objective criteria known to both parties;
- control and its results require publicity, so that everyone could study them carefully, make reasonable conclusions based on this, which set up for active positive work aimed at the necessary adjustment of the educational process.

The following requirements are set for the control of knowledge, skills and abilities:

- **objectivity** - the creation of conditions under which the knowledge, skills and abilities of students would be most accurately expressed, the introduction of uniform requirements, fair treatment of each student, the inadmissibility of elements of bias, the desire to find negative facts or impose purely personal views on these or those theoretical problems, methodical receptions, etc. ; at the same time, it should be remembered that the objectivity of control is incompatible with a liberal attitude to shortcomings and errors, superficiality and narrowness in the analysis and evaluation of the work being audited;
- **validity of assessments** - their argumentation;
- **regularity** - an important psychological factor that contributes to the formation of such qualities as organization and discipline, forms perseverance and focus on achieving the goal;
- **individual and differentiated approach to the assessment of knowledge, skills and abilities** involves the use of such didactic conditions that reduce psychological tension, take into account the characteristics of the student's

nervous system, his character, potential, abilities, etc., making the teacher able to more fully, correctly and more objectively identify and evaluate the knowledge of each student;

- **comprehensiveness and optimality implies:** first, the adequacy of control over learning objectives, i.e. the substantive side of control should control what students are taught and take into account the amount of material to be mastered; secondly, the validity of the control, it should cover all the knowledge, skills and abilities that are controlled; thirdly, reliability - the stability of the results obtained by repeated control after a certain time, as well as the proximity of the results during the control by different teachers;
- **professional orientation of control**, which is due to the targeted training of the specialist and thus helps to increase the motivation of cognitive activity of students - future professionals.

#### **Forms of control:**

- by student coverage: frontal, individual, pair, group;
- by method of implementation: oral, written;
- by way of organization: teacher control, mutual control, self-control;
- on the use of teaching aids: control with the help of printed media, three-dimensional means (models, models, simulators, devices), technical means, computer systems, including support for multimedia files;
- by level of standardization: standardized, non-standardized.

Each of the forms of control has features and is determined by the purpose, content, methods and nature of learning.

**Oral questioning** allows you to control not only knowledge but also verbal abilities, helps to correct speech errors. Reproduction of the material contributes to its better memorization, active use of scientific concepts, which is impossible without sufficient application of them in speech.

A **written survey** helps to determine the level of mastery of the material, but the possibility of copying should be ruled out and students should be closely monitored during this survey. Written work requires a fairly large amount of teacher time to test.

An integral part of the system of educational process in higher medical educational institutions of III and IV levels of school accreditation is **testing** as a standardized assessment method that meets the new goals and objectives of higher medical education and promotes individualization and manageability of the educational process.

All forms of control, with their skillful implementation, are accompanied by instructions, advice and recommendations of the student's teacher. Control in all cases allows you to draw the right conclusions for the future.

#### **Assessment and mark.**

The practical application of any form of pedagogical control ends with assessments and marks.

**Assessment** is a method and result of establishing the fact of conformity or inconsistency of acquired knowledge and formed skills and abilities to the goals and objectives of training. The assessment also involves identifying the reasons that hindered learning and the means of organizing learning activities to address gaps in knowledge.

**Mark** - a numerical analogue of the assessment and has several rank values.

The assessment of the quality of knowledge, skills and abilities of students is based on the requirements of programs in academic disciplines, but regardless of the specifics of the subject, the general requirements are as follows:

- understanding and degree of mastering the question, completeness, which is measured by the amount of program knowledge about the object being studied;
- depth, which characterizes the set of connections between the knowledge perceived by students;
- methodological substantiation of knowledge;
- acquaintance with the basic literature on the discipline, as well as with modern periodical domestic and foreign literature in the specialty;
- ability to apply theory in practice, solve situational problems, etc. ; efficiency, ie the number of situations in which the student can apply their knowledge in practice;
- acquaintance with the history and current state of science and prospects for its development;
- logic, structure, answer style and ability of the student to defend the scientific and theoretical positions put forward, awareness, generalization, concreteness;
- flexibility, i.e. the student's ability to independently find situations in which knowledge is applied;

- strength of knowledge.

In the process of pedagogical control, it should be taken into account that:

- it is inexpedient to control what should be mastered by the student at the level of acquaintance, initial representation or recognition;
- control should not be applied if the teacher is sure that all students will cope with the task 100%, at the same time it is sometimes advisable to give such tasks that most students can cope with, because in this way students' faith in their strength is stimulated;
- well-organized phased control reduces the need for the final or even makes the latter unnecessary;
- it is necessary to vary the means of control;
- creating a calm and friendly atmosphere in the control process contributes to the better work of students and has a positive effect on its results.

**Assessment of the current educational activity of the student** is carried out at mastering of each theme of the section by passing estimation on a 4-point traditional scale; at the end the average estimation which is converted into points is calculated.

**The maximum number of points** for the current educational activities of the student is **120 points**.

Assessment of students' independent work, which is provided in the topic together with the classroom work, is carried out during the current control of the topic in the relevant classroom.

### 3. EVALUATION CRITERIA

**3.1. Evaluation of the success of education** of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU" from 21.08.2021 №181

Teachers make sure that each student receives the necessary competence in the areas included in the topics of practical classes. Assimilation of the topic (current control) is controlled in a practical lesson in accordance with specific goals. The following tools are used to assess the level of preparation of students: tests, solving situational problems, interpretation and evaluation of laboratory tests, methods of prescribing therapy, monitoring the acquisition of practical skills. Assessment of current learning activities (PND) in each practical lesson is carried out on the traditional 4-point scale: "excellent", "good", "satisfactory" and "unsatisfactory".

The final lesson (FL) is conducted in accordance with the program of the discipline during the semester according to the schedule, during classes. The grade in the discipline is given to the student at the last (final) lesson after solving a package of test tasks on the content of the educational material of the section in the amount of 30 tests. Evaluation criterion - 90% of correctly solved tasks; "Passed" or "failed"), assessment of the development of practical skills (assessment criteria - "performed" or "failed"). The level of mastering practical skills by students is assessed by the teacher based on the results of practical classes in the relevant section. Assessment of students' theoretical training is carried out by interviewing a list of control questions.

The final score for PND and the final lesson (FL) is defined as the arithmetic mean of traditional grades for each lesson and FL, rounded to 2 decimal places (to the nearest hundredth), which are converted into points in accordance with the "Instructions for assessing student learning. »Using Table 2 or the average grade (to the nearest hundredth) for IPA and its conversion into ECTS points, the teacher automatically receives using the electronic journal ACS. The minimum number of points that a student must score for current activities during the study of the discipline is 120 points, the maximum number of points - 200 points.

#### **Evaluation of current learning activities (CLA)**

The current control of knowledge of students is carried out at each practical lesson in accordance with the specific objectives of the topic. The following means of diagnosing the level of preparation of students are used: computer tests; solving situational problems; structured written works; structured according to the procedure control of practical skills.

During the assessment of mastering each subject of the discipline (CLA) and the final lesson (FL) the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

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

The recalculation of the average grade for current educational activities (CLA) in a multi-point scale, for disciplines

that end with a test, is carried out in accordance with Table 1. For enrollment, the student must receive from 120 to 200 points.

**Table 1**

**Recalculation of the average score for current activities in a multi-point scale  
(for disciplines that end with offset)**

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.22-4,23	169	3.45-3,46	138
4.97-4,99	199	4.19-4,21	168	3.42-3,44	137
4.95-4,96	198	4.17-4,18	167	3.4-3,41	136
4.92-4,94	197	4.14-4,16	166	3.37-3,39	135
4.9-4,91	196	4.12-4,13	165	3.35-3,36	134
4.87-4,89	195	4.09-4,11	164	3.32-3,34	133
4.85-4,86	194	4.07-4,08	163	3.3-3,31	132
4.82-4,84	193	4.04-4,06	162	3.27-3,29	131
4.8-4,81	192	4.02-4,03	161	3.25-3,26	130
4.77-4,79	191	3.99-4,01	160	3.22-3,24	129
4.75-4,76	190	3.97-3,98	159	3.2-3,21	128
4.72-4,74	189	3.94-3,96	158	3.17-3,19	127
4.7-4,71	188	3.92-3,93	157	3.15-3,16	126
4.67-4,69	187	3.89-3,91	156	3.12-3,14	125
4.65-4,66	186	3.87-3,88	155	3.1-3,11	124
4.62-4,64	185	3.84-3,86	154	3.07-3,09	123
4.6-4,61	184	3.82-3,83	153	3.05-3,06	122
4.57-4,59	183	3.79-3,81	152	3.02-3,04	121
4.54-4,56	182	3.77-3,78	151	3-3,01	120
4.52-4,53	181	3.74-3,76	150	<b>Less than 3</b>	<b>Not enough</b>
4.5-4,51	180	3.72-3,73	149		
4.47-4,49	179	3.7-3,71	148		
4.45-4,46	178	3.67-3,69	147		
4.42-4,44	177	3.65-3,66	146		
4.4-4,41	176	3.62-3,64	145		
4.37-4,39	175	3.6-3,61	144		
4.35-4,36	174	3.57-3,59	143		
4.32-4,34	173	3.55-3,56	142		
4.3-4,31	172	3.52-3,54	141		
4,27-4,29	171	3.5-3,51	140		
4.24-4,26	170	3.47-3,49	139		

**Assessment of independent work of students**

Assessment of students' independent work, which is provided in the topic along with classroom work, is carried out during the current control of the topic in the relevant classroom.

Assimilation of topics that are submitted only for independent work and are not included in the topics of classroom training, is controlled during the final control (during offset).

**Assessment of the final lesson**

**he final lesson (FL)** must be held during the semester on schedule, during classes. Acceptance of FL is carried out by the teacher of the academic group or the exchange of related groups between teachers.

To prepare for FL on the information stand of the department, in the methodical office of the department, in the workbooks of students, the relevant materials are presented:

- list of theoretical questions (including questions on independent work);
- list of practical skills;
- criteria for assessing the knowledge and skills of students;
- schedule of students completing missed classes during the semester;
- test tasks.

### **Conducting the final lesson:**

1. Solving a package of test tasks on the content of the educational material of the section in the amount of 30 tests. Evaluation criterion - **90%** of correctly solved tasks; "Passed" or "did not pass");
2. Assessment of the acquisition of practical skills (assessment criteria - "performed" or "failed"). The level of mastering practical skills by students is assessed by the teacher based on the results of practical classes in the relevant section;
3. During the assessment of the student's knowledge on theoretical issues included in this final lesson (FL), the student is given a traditional grade, which is converted into a multi-point scale together with the grades for CLA (Table 1).

### *Evaluation criteria.*

Grades "excellent" are given to students who have shown detailed, systematic and in-depth knowledge of the curriculum, the ability to freely perform the tasks provided by the program, and who have mastered the basic and familiar with additional literature recommended by the program.

The grade "good" is given to students who have shown the systematic nature of knowledge in therapeutic dentistry and are able to independently replenish and update them in the course of further educational work and professional activities.

A grade of "satisfactory" is given to students who answer only those questions that are included in the mandatory minimum list; who are familiar with the main literature recommended by the program.

Grades "unsatisfactory" are given to students who have identified gaps in knowledge of the basic curriculum, who have made fundamental errors in the tasks provided by the program, who can not continue their studies without additional classes in therapeutic dentistry.

### **Grade from the discipline**

The maximum number of points that an student can score for studying the discipline - 200 points, including the maximum number of points for current educational activities. The minimum number of points is 120, including the minimum current educational activity.

## **3.2. The list of theoretical questions for the test of the elective course**

### **"Fundamentals of dentistry"**

1. Pediatric dentistry, its main sections: therapeutic dentistry, surgical dentistry and maxillofacial surgery, orthodontics.
2. The main stages of development of temporary teeth in the antenatal and postnatal periods and the timing of eruption. Physiological signs of eruption of temporary teeth, the causes of their violation.
3. The main stages of development of permanent teeth. Factors influencing the development and formation of permanent teeth in the antenatal and postnatal periods. Terms of eruption of permanent teeth, formation of root and periodontal tissues.
4. Congenital malformations of teeth, non-carious lesions of the teeth, adentia. Causes of development, principles of treatment.
5. Caries of temporary and permanent teeth in children: causes of development, clinical signs, principles of treatment. Prevention.
6. Diseases of periodontal tissues in children: gingivitis, periodontitis, periodontal syndrome. Causes of development, clinical manifestations, principles of treatment.
7. Manifestations of infectious and somatic diseases in the oral cavity in children.
8. Primary prevention of major dental diseases. The concept of endogenous and exogenous prevention. Means used to prevent dental caries and periodontal disease.
9. Anomalies of occlusion in children. Classification. Treatment.
10. Therapeutic dentistry, its sections, goals and objectives.
11. Methods of examination of the patient in the clinic of therapeutic dentistry (basic and auxiliary).
12. Non-carious lesions of the teeth. Treatment and prevention

13. Caries, its complications. Treatment and prevention.
14. Periodontal disease. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment and prevention.
15. Diseases of the oral mucosa. Connection with somatic pathology. Tactics of family doctor treatment and prevention.
16. Examination of the patient in the surgical department of the dental clinic and hospital. Medical documentation: medical history.
17. Types of local anesthesia in dentistry, in the maxillofacial area.
18. Chronic odontogenic inflammatory foci in patients with somatic local and systemic pathology. Tactics of patient management.
19. Classification of inflammatory processes in the maxillofacial area.
20. Odontogenic infections: abscesses, phlegmons of the maxillofacial area: diagnosis, clinic, principles of complex treatment.
21. Lymphadenitis of the maxillofacial area: classification, clinic, diagnosis, treatment.
22. Benign tumors and tumor-like formations of the maxillofacial area. Classification. Diagnostic signs. Principles of treatment.
23. Malignant tumors of soft tissues and bones of the maxillofacial area. Diagnostic signs. Principles of treatment.
24. Traumatic injuries of the maxillofacial area. Classification, features of damage to the tissues of the maxillofacial area. Temporary (transport) immobilization for bone injuries of the maxillofacial area. Damage to the tongue, bottom of the mouth and neck: features of the clinical course and care. Complication.
25. Asphyxia, bleeding from damage to the tissues of the maxillofacial area: classification, features of the clinical course. Providing care to patients.
26. Congenital nonunion of the upper lip and palate. Overview. The role of pediatricians in treatment.

### **List of practical skills for credit from the elective course**

1. Be able to collect complaints, medical history and life.
2. Be able to conduct an objective examination of the dental patient: appearance, examination of the maxillofacial area and oral cavity.
3. Be able to examine the condition of the maxillofacial area, hard tissues of the teeth, periodontium, SOPR (examination, probing, percussion, palpation).
4. Be able to prescribe (if necessary) additional methods of examination
5. Be able to determine the need for referral to a dentist or specialist.

### **3.3. Control questions and tasks for independent work**

Tasks for independent work: preparation for practical classes - theoretical training and development of practical skills; preparation for certifications - theoretical training and development of practical skills; independent study of topics that are not included in the classroom plan; individual SRH - review of educational and methodical literature, writing essays, conducting research.

**3.4. Individual tasks** (the list approved at the meeting of the department with the determination of the number of points for their performance, which can be added as incentives):

### Evaluation of individual tasks of applicants

№	Name of individual tasks	Number of evaluation points
1.	Participation in the competition Olympiad among Ukrainian universities	up to 10 points
2.	Participation in conferences with a report	up to 10 points
3.	Participation in conferences with a poster report	up to 8 points
4.	Participation in conferences (confirmed by a certificate)	up to 2 points
5.	Participation in competitions on professional skills	up to 10 points
6.	Scientific publications (articles)	up to 8 points
7.	Scientific publications (abstracts)	up to 6 points
8.	Analytical review with a multimedia presentation on the topic of the section	up to 6 points
9.	Production of a visual aid (stand, phantom model, etc.)	up to 8 points

The table lists individual tasks (participation with reports in student conferences, profile competitions, preparation of analytical reviews with presentations with plagiarism testing, etc.) 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 once as a commission (commission - head of the department, head teacher, group teacher) only if they are successfully completed and defended. In no case may the total amount of points for IPA exceed 120 points.

**3.5. Other incentives** (conditions for accruing additional points for various types of informal and informal activities, which may include conferences, research, participation in surveys, symposia, etc.): decided in each case individually.

### 3.6. Rules for appealing the assessment

If the student does not agree with the grade obtained in class, he can appeal it. The appeal is assessed in accordance with the provision "On the appeal of the results of the final control of students of the Kharkiv National Medical University", the order of 30.09.2020. No252.

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=1226%3A2013-03-25-12-07-55&catid=4%3A2011-05-04-07-20-12&Itemid=19&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=1226%3A2013-03-25-12-07-55&catid=4%3A2011-05-04-07-20-12&Itemid=19&lang=uk)



## 4. DISCIPLINE POLICY

### Teacher's policy (department)

#### Academic expectations from students

##### Course requirements

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 educational process. Students are not allowed to attend practical classes.

Curation of patients is possible provided that students have the appropriate form of clothing, a health book with a mark on vaccination against diphtheria, the results of the examination for the stress of immunity to measles (or a mark on vaccination).

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

Students are expected to attend all classes. If they missed classes, it is necessary to work it out (according to the schedule on the information stand of the department)

Written and homework must be completed completely and on time, if students have questions, you can contact the teacher in person or by e-mail, which the teacher will provide in the first practical lesson.

Active participation during the discussion in the audience, students should be ready to understand the material in detail, ask questions, express their point of view, discuss. During the discussion it is important:

- respect for colleagues,
- tolerance for others and their experience,
- receptivity and impartiality,
- the ability to disagree with the opinion, but to respect the personality of the opponent,
- careful argumentation of his opinion and the courage to change his position under the influence of evidence,
- self-expression, when a person avoids unnecessary generalizations, describes his feelings and formulates his wishes based on their own thoughts and emotions,
- mandatory acquaintance with primary sources.

A creative approach in its various manifestations is welcome. Students are expected to be interested in participating in city, national and international conferences, competitions and other events in the subject profile. Students' participation in research and conferences on this topic is encouraged.

All students of KhNMU are protected by the Regulations on Prevention, Prevention and Settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to define an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. This Regulation is developed on the basis of the following normative legal acts of Ukraine: the 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 paragraph 1 of Article 4 of the Convention on the Elimination of All Forms of Discrimination against Women; General Comment № 16 (2005) "Equal rights for men and women to enjoy economic, social and cultural rights" (Article 3 of the International Covenant on Economic, Social and Cultural Rights; UN Committee on Economic, Social and Cultural Rights); in the spirit of international mutual understanding, cooperation and peace and 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 provides education and work that is free from discrimination, sexual harassment, intimidation or exploitation. The University recognizes the importance of confidentiality. All persons responsible for the implementation of this policy (staff of deans' offices, faculties, institutes and the Center for Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential about 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 all without exception, provided they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Code of Corporate Ethics and the Charter of KhNMU.

### **Occupational safety and health**

The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that every higher education seeker should know where the evacuation exit closest to the audience is, where the fire extinguisher is, how to use it, and so on.

### **Behavior in the audience**

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 faculty 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 (see Academic expectations from students).

**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;
- 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.

## **5. PLAGIARISM AND ACADEMIC INTEGRITY**

**The Department of Therapeutic Dentistry 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.

Observance of academic integrity at the department takes place according to the current legislation:

- Code of Academic Integrity of KhNMU.
- Order №305 of 27.08.19 on the organization of the educational process in KhNMU.
- Order № 165 of 02.07.2020 on measures to develop the system of academic integrity in KhNMU.
- Order № 157 of 27.08.2021 on strengthening measures to comply with the principles of academic integrity in KhNMU.

## **6. RECOMMENDED LITERATURE**

### **Basic**

1. Therapeutic dentistry: Textbook: In 4 volumes. - Vol. 1. Phantom course / MF Danilevsky, A.V. Borisenko, A.M. Politun and others. - K.: Medicine, 2009. - 400 p.
2. Therapeutic dentistry: Textbook: In 4 volumes. - Vol. 2. Caries. Pulpit. Periodontitis. Oral sepsis / N.F. Danilevsky, A.V. Borisenko, A.M. Politun et al. - K.: Medicine, 2010. - 544 p.

### **Auxiliary**

1. Hupp, James R., Edward Ellis, and Myron R. Tucker. Contemporary Oral and Maxillofacial Surgery. Seventh edition. St. Louis: Elsevier, 2019.
2. K. Moharamzadeh Diseases and conditions in dentistry: an evidence-based reference /Hoboken, NJ : Wiley, 2018.

**MOODLE website:**

<http://distance.knmu.edu.ua/course/index.php?categoryid=51>

**Repository website:**

<http://repo.knmu.edu.ua/handle/123456789/189>

**The procedure for informing about changes in the syllabus:** the necessary changes in the syllabus are approved by the methodical commission of KhNMU on dental problems and published on the website of KhNMU, the website of the Department of Therapeutic Dentistry of KhNMU.