

MINISTRY OF HEALTHCARE OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Therapeutic Dentistry
Educational year 2021-2022

EDUCATIONAL DISCIPLINE SYLLABUS

«FUNDAMENTALS OF AESTHETIC RESTORATION OF TEETH»
(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 _____ 221 "Dentistry" - the second master's level _____
(code and name of specialty)

Specialization (by availability) _____

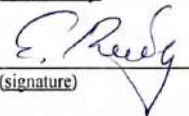
Educational and professional program "Dentistry" second (master's) level of higher education

Course 5th

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

Protocol from
"30th" of August 2021 № 22

Acting Head of the Department of Therapeutic
Dentistry

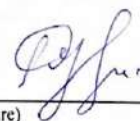

(signature)

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

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

Protocol from
"02nd" of September 2021 № 4

The Chairman


(signature)

prof. G.P. Ruzin
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MOODLE website: <http://distance.knmu.edu.ua/course/index.php?categoryid=51>

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

Offline consultations: by prior arrangement;

On-line consultations: MOODLE system, ZOOM system, GOOGLE MEET system free of charge;

Location: UDC KhNMU, remotely - in the systems ZOOM, GOOGLE MEET or MOODLE.

INTRODUCTION

Educational discipline syllabus «Fundamentals of aesthetic restoration of teeth» was prepared in accordance with educational and professional program (hereinafter referred to as “EPD”) “Dentistry” and Ukraine Standards for higher education (hereinafter referred to as “Standard”), second (master’s) level, knowledge 22 “Health care”, specialty 221 “Dentistry” - master.

Educational and professional program "Dentistry" of the second (master's) level of higher education in the specialty 221 Dentistry knowledge 22 Health care Qualification: Master of Dentistry is based on:

1. Law of Ukraine "On Higher Education" 01.07.2014 561556-VII.
2. Law of Ukraine "On Education" 05.09.2017 №2145-VIII.
3. Resolutions of the Cabinet of Ministers of 29.04.2015 № 266 “On approval of the list of branches of knowledge and specialties for which higher education students are trained.
4. Resolutions of the Cabinet of Ministers of Ukraine dated March 28, 2018 № 334 "On approval of the Procedure for conducting a single state qualification exam for applicants for a master's degree in the field of knowledge "Health".
5. Resolutions of the Cabinet of Ministers of 23.13.2013 3411341 "On approval of the National Qualifications Framework".
6. National Classifier of Ukraine: "Classifier of Professions" DK 003: 2010 // Publishing House "Sotsinform". - K.: 2010.
7. Order of the Ministry of Economic Development and Trade of Ukraine of November 18, 2014 № 1361 “On approval of the amendment to the national classifier of Ukraine DK 003: 2010” (amendment № 2).
8. Order of the Ministry of Education and Science of Ukraine dated 24.06.2019 № 879 "On approval of the standard of higher education in the specialty 221" Dentistry "for the second (master's) level of 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).

The spread of pathology of the hard tissues of the teeth in modern society makes it necessary to study the aesthetic methods of restoration of defects. Acquired in this way special (professional) competencies students then use in the treatment of dental patients of therapeutic profile, along with acquaintance with the organization and operation of clinical offices, preparation of the necessary documentation.

The study of the discipline "Fundamentals of aesthetic restoration of teeth" is carried out by students in the 5th year of study in the ninth semester.

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

The subject of study is the anatomical and histological features of the structure of teeth, tissues and organs of the oral cavity, equipment of the dental office, principles, methods and stages of preparation of carious cavities of different localization, composition, properties and methods of dental fillings, methods of restoration of cavities of different localization.

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

The course covers important practical and theoretical aspects of the future dentist.

Interdisciplinary connections. The discipline "Fundamentals of Aesthetic Restoration of Teeth" has links with such disciplines as "Biological and Bioorganic Chemistry", "Physiology", "Human Anatomy", "Medical Chemistry", "Histology, Cytology and Embryology", "Clinical Anatomy and operative surgery", "Propaedeutics of therapeutic dentistry", "Pharmacology", "Therapeutic dentistry" and integrates with these disciplines.

The discipline belongs to the elective disciplines.

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

Postrequisites. The main provisions of the discipline provide a direct link between theory and practice and are used in the study of therapeutic dentistry, is the basis for 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 teaching the discipline "Fundamentals of Aesthetic Restoration of teeth " is to train a dentist who can diagnose and treat dental diseases, provide specialized medical care to patients at a high professional level using modern technologies, tools and materials.\

1.2. The objectives of the elective course "Fundamentals of Aesthetic Restoration of teeth" in the normative discipline "Therapeutic Dentistry" are: mastering basic manual skills in dental treatment - preparation and filling of carious cavities of I-V classes according to Black, atypical carious cavities, filling dental cavities with various filling materials, mastering modern technologies of tooth restoration, restoration of anatomical integrity and functional abilities of the dental apparatus, primary and secondary prevention of the most common diseases in the clinic of therapeutic dentistry.

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 complex problems and problems in the field of health care in the specialty "Dentistry" in a professional activity or in the learning process, which involves research and / or innovation and is characterized by uncertainty of conditions and requirements.

general:

1. Ability to abstract thinking, analysis and synthesis.
2. Knowledge and understanding of the subject area and understanding of professional activity.
3. Ability to apply knowledge in practice.
4. Ability to communicate in the state language both orally and in writing.
5. Ability to communicate in English.
6. Skills in the use of information and communication technologies.
7. Ability to search, process and analyze information from various sources.
8. Ability to adapt and act in a new situation.
9. Ability to identify, pose and solve problems.
10. Ability to be critical and self-critical.
11. Ability to work in a team.
12. The desire to preserve the environment.
13. The ability to act socially responsibly and consciously.
14. The ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.
15. Ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, use different types and forms of motor activities for active recreation and a healthy lifestyle.

special (professional, subject):

1. Ability to collect medical information about the patient and analyze clinical data.
2. Ability to interpret the results of laboratory and instrumental research.
3. Ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergencies.
4. Ability to plan and implement measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial region.
5. Ability to design the process of providing medical care: to determine approaches, plan, types and principles of treatment of diseases of organs and tissues of the oral cavity and maxillofacial region.
6. Ability to determine the rational mode of work, rest, diet in patients in the treatment of diseases of organs and tissues of the oral cavity and maxillofacial region.
7. Ability to determine the tactics of management of patients with diseases of organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.
8. Ability to perform medical and dental manipulations.
9. Ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region.
10. Ability to organize and conduct medical and evacuation measures.
11. Ability to determine tactics, methods and provide emergency medical care.
12. Ability to organize and conduct screening examinations in dentistry.
13. Ability to assess the impact of the environment on the health of the population (individual, family, population).
14. Ability to maintain regulatory medical records.

15. Processing of state, social and medical information.
16. Ability to organize and conduct rehabilitation measures and care for patients with diseases of the oral cavity and SLE.
17. Ability to legally support their own professional activities.
18. Ability to provide home care according to the protocols of tactical medicine.

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

PLO 1. Identify and identify the leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge of the person, his organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2).

PLO 2. Collect information about the general condition of the patient, assess the psychomotor and physical development of the patient, the condition of the maxillofacial area, based on the results of laboratory and instrumental studies to assess information about the diagnosis (list 5).

PLO 3. Assign and analyze additional (mandatory and optional) methods of examination (laboratory, radiological, functional and / or instrumental) according to list 5, patients with diseases of organs and tissues of the oral cavity and maxillofacial region for differential diagnosis of diseases (according to list 2).

PLO 4. Determine the final clinical diagnosis in accordance with the relevant ethical and legal norms, by making an informed decision and logical analysis of the obtained subjective and objective data of clinical, additional examination, differential diagnosis under the supervision of a physician-manager in a medical institution (according to the list 2.1).

PLO 5. To diagnose emergencies under any circumstances (at home, on the street, in a medical institution), in an emergency, martial law, lack of information and limited time (according to list 4).

PLO 6. Plan and implement measures for the prevention of dental diseases among the population to prevent the spread of dental diseases.

PLO 7. Analyze the epidemiological situation and carry out measures of mass and individual, general and local drug and non-drug prevention of dental diseases.

PLO 8. To determine the approach, plan, type and principle of treatment of dental disease (according to list 2) by making an informed decision according to existing algorithms and standard schemes.

PLO 9. To determine the nature of the mode of work, rest and the necessary diet in the treatment of dental diseases (according to list 2) on the basis of preliminary or final clinical diagnosis by making an informed decision according to existing algorithms and standard schemes.

PLO 10. To determine the tactics of managing a dental patient with somatic pathology (according to list 3) by making an informed decision according to existing algorithms and standard schemes.

PLO 11. To carry out treatment of the basic stomatologic diseases according to existing algorithms and standard schemes under the control of the doctor-manager in the conditions of medical institution (according to the list 2.1).

PLO 12. Organize medical and evacuation measures among the population, servicemen, in emergency situations, including martial law, during the detailed stages of medical evacuation, taking into account the existing system of medical and evacuation support.

PLO 13. Determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances on the basis of a diagnosis of emergency in a limited time (according to list 4).

PLO 14. Analyze and evaluate state, social and medical information using standard approaches and computer information technologies.

PLO 15. Assess the impact of the environment on the health of the population in a medical institution by standard methods.

PLO 16. To form the purposes and to define structure of personal activity on the basis of result of the analysis of certain public and personal needs.

PLO 17. Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.

PLO 18. To be aware of and guided in its activities by civil rights, freedoms and responsibilities, to raise the general cultural level.

PLO 19. Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

PLO 20. To organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

PLO 21. Perform medical manipulations on the basis of preliminary and / or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and in different conditions (according to list 6).

PLO 22. Perform medical dental manipulations on the basis of preliminary and / or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and in different conditions (according to list 7).

PLO 23. Perform manipulations of emergency medical care, using standard schemes, under any circumstances on the basis of a diagnosis of emergency (according to list 4) in a limited time (according to lists 6, 7).

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: selective; 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, protection of the clinical case).

2. INFORMATION SCOPE OF THE DISCIPLINE

2.1. Description of the discipline

Name of indicators	Branch of knowledge, direction of training, educational and qualification level	Characteristics of the discipline
		full-time education
Number of loans - 4.0	Training direction <u>22 "Health care"</u> (code and name)	Elective discipline
the total number of hours - 120	Specialty: <u>221 "Dentistry" - masters</u> (code and name)	Year of preparation: 5th
		Semester 9th
Hours for full-time study: classrooms - 50 independent student work - 70	Educational and qualification level: <u>SECOND MASTER'S LEVEL</u>	Lectures -
		Practical, seminar 50 hours
		Laboratory -
		Independent work 70 hours
		Individual tasks
		Type of control: credit

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 "Fundamentals of aesthetic restoration of teeth"

№	Topic of the lesson	Number of hours	Teaching methods	Control forms
1	The concept, goals and objectives of the course "Fundamentals of Aesthetic Restoration of teeth". Indications and contraindications to dental restoration. Consistency in the development of creative potential in the artistic restoration of the tooth.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
2	Aesthetic analysis of the face and teeth. The concept of shape, micro- and macrostructure of teeth. The value of the photo-protocol at the stages of restoration of hard tissues of teeth. Equipment, methods of photo-protocol.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
3	Tools and accessories used in dental restoration. Methods and conditions of preparation.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
4	Types isolation of the working field. Indications and contraindications to the use of a rubber dam. Completing systems to rubber dams. Placement planning and methods of applying a rubber dam. Errors and complications in working with the rubber dam and ways to eliminate them. Imposition of a rubber dam in unusual situations. Alternative field insulation systems.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
5	Composite filling materials. Adhesive systems for sealing with composites. The mechanism of joining composites to the enamel surface. The mechanism of joining composites to the dentin surface.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
6	Methods of application of composite filling materials. Planning the construction of the restoration and the choice of shade of filling material. Stages of restoration of the anatomical shape of the masticatory group of teeth. Restoration of 1-class	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations,	oral examination; individual tasks

	destruction. Method of occlusive silicone key.		work in the clinic (standardized patient, non-standardized patient)	
7	Restoration of the 2nd class of destruction. The concept and role of the contact point. Contraindications to the establishment of a contact point. Elements for creating a contact point. Tools for restoring class 2 destruction. Classification of matrices. Contact point recovery technique, access options.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
8	Techniques of direct restoration. Techniques for building composite restoration. Errors in the restoration of teeth with proximal lesions. Restoration of the 5th class of destruction.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
9	Methods of restoring the contact point of the frontal group of teeth. Indications for the use of veneers. Indications for the use of pins in the front group of teeth. Technique of using a silicone template.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
10	Errors in violation of the method of light polymerization of filling materials. Errors in violation of the rules of operation of photopolymerizing devices.	4	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
11	Causes and types of discoloration of teeth. Classification and methods of eliminating tooth discoloration. History of teeth whitening. Professional bleaching. Indication. Contraindication. Equipment and methods of teeth whitening. The concept of intra-crown whitening, equipment and methods.	5	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks
12	Questions of aesthetic periodontology. Features of tooth restoration in periodontal diseases. The concept of "white" and "pink" aesthetics. Observations of patients with aesthetic restorations. Methods and means of individual hygiene. Final control.	5	story-explanation, conversation, illustration, presentation, videos, videos, work with simulation equipment, phantoms, demonstration, observation, modeling of processes and situations, work in the clinic (standardized patient, non-standardized patient)	oral examination; individual tasks , Differentiated offset
	Total	50		

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 independent development of practical skills in a phantom classroom under the guidance of a teacher.	60	theoretical training and development of practical skills	oral examination, individual tasks
2.	Preparation for the final control.	10	theoretical training and development of practical skills	oral examination, individual tasks, test control
3.	Individual work - review of educational and methodical literature, writing essays, conducting research.		review of educational and methodical literature, writing essays, conducting research	Offset
Total		70		

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 an 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 education success of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU", approved by the order of KhNMU from 21.08.2021 №181.

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.

**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	Less than 3	Not enough
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.

Assessment of the final lesson

The 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

If the discipline is studied for 2 or more semesters, the grade is determined as the arithmetic mean of the scores for all semesters during which the discipline was studied, which are translated into a 120-point ECTS scale (Table 1) with the addition of points obtained directly to diff. offset.

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 - 120 points, as well as the maximum number of points for the results of difzalik - 80 points. The minimum number of points is 120, including the minimum current educational activity - 70 and the results of diff. credit - 50 points.

3.2. The list of theoretical questions for the test of the elective course "Fundamentals of aesthetic restoration of teeth"

1. The concept, goals and objectives of the course "Fundamentals of Aesthetic Restoration of teeth".
2. Indications and contraindications to dental restoration.
3. Consistency in the development of creative potential in the artistic restoration of the tooth.
4. Aesthetic analysis of the face and teeth.
5. The concept of shape, micro- and macrostructure of teeth.
6. The value of the photo-protocol at the stages of restoration of hard tissues of the teeth. Equipment, methods of conducting.
7. Tools and accessories used in dental restoration.
8. Methods and conditions of preparation.
9. Types of insulation of the working field.
10. Cofferdam. Indications and contraindications to the use of a rubber dam.
11. Components of a rubber dam system.
12. Placement planning and methods of applying a rubber dam.
13. Errors and complications in working with the rubber dam and ways to eliminate them.
14. Applying a rubber dam in unusual situations.
15. Alternative systems of isolation of a working field.
16. Composite sealing materials.
17. Adhesive systems for sealing with composites.
18. The mechanism of connection of composites with the enamel surface.
19. The mechanism of connection of composites with the dentin surface.
20. Methods of clinical application of composite filling materials.
21. Planning the construction of the restoration and the choice of color of the filling material.
22. Stages of restoration of the anatomical shape of the masticatory group of teeth.
23. Restoration of the 1st class of destruction. Technique of occlusive silicone template.
24. Restoration of the 2nd class of destruction. The concept and role of the contact point.
25. Contraindications to the establishment of a contact point.
26. Elements for creating a contact point.
27. Tools for the restoration of class 2 destruction. Classification of matrices.
28. Technique of contact point restoration. Access options.
29. Techniques of direct restoration.
30. Techniques for construction of composite restoration.
31. Errors in the restoration of teeth with proximal lesions.
32. Restoration of the 5th class of destruction.
33. Methods of restoring the contact point of the frontal group of teeth.
34. Indications for the use of veneers.
35. Indications for the use of pins in the restoration of frontal teeth.
36. Technique of using a silicone template.
37. Causes and types of discoloration of the teeth. Classification and methods of eliminating tooth discoloration. History of teeth whitening.
38. Professional bleaching. Indication. Contraindication. Equipment and methods of teeth whitening.
39. The concept of intracoronary whitening. Equipment and methods of conducting.
40. Questions of aesthetic periodontology. Features of tooth restoration in periodontal diseases. The concept of "white" and "pink" aesthetics.
41. Errors related to the preparation of the operating field for the restoration of hard tissues of the teeth.
42. Errors related to devices for photopolymerization, polymerization techniques and techniques for restoration of hard tissues of teeth.
43. Observations of patients with aesthetic restorations.
44. Methods and means of individual hygiene of patients with aesthetic restorations of hard tissues of teeth.

List of practical skills for credit from the elective course

1. Master the concept of aesthetic analysis of the dental system.
2. Have a detailed idea of the shape, micro- and macrostructure of the teeth.
3. Learn to implement a photo-protocol at the stages of restoration of hard tissues of teeth.
4. Know the equipment and tools used for restoration.
5. Distinguish and be able to use dental tools for restoration.
6. Master the skills to prepare the work area for restoration: cleaning the work surface for further insulation and preparation.
7. Have an idea of the adhesion of composites to enamel and dentin.
8. Have modern skills in various adhesion techniques.
9. Learn to use different adhesive systems.

10. Master the methods of application of composite filling materials.
11. Learn to choose the color of the filling material for the restoration of hard tissues of the teeth.
12. Master the techniques of restoring the contact point of the lateral group of teeth.
13. Learn to use a silicone template to restore the masticatory surface of the lateral group of teeth.
14. Master the techniques of restoring the contact point of the front group of teeth.
15. Learn to use a silicone template to restore the palatal, lingual surface of the frontal group of teeth.
16. Improve manual skills of photopolymerization technique.
17. To improve manual skills of professional hygiene in patients with aesthetic restorations of hard tissues of teeth.
18. To supplement the initial level of knowledge with modern ideas about methods and means of personal hygiene depending on the condition of dental and periodontal tissues.

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; preparation for writing a medical history.

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

№ з/п	Назва індивідуальних завдань	Кількість балів оцінювання
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. №252.

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 READING

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.

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.

