

MINISTRY OF HEALTH OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of _____ Orthopedic Dentistry _____

Academic year _____ 2021-2022 _____

SYLLABUS OF THE DISCIPLINE

"PROPEDEUTICS OF ORTHOPEDIC DENTISTRY"

(name of educational component)

Normative or selective educational component _____ Basic _____

Educational component format _____ Mixed _____
(full-time; mixed; distance)

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 the specialty)

Educational and professional program (educational and scientific program) _____ "Dentistry" _____

The second (master's) level of higher education

Course _____ II _____

The syllabus of the discipline was considered
at the meeting of the department
orthopedic dentistry

Protocol from
"30" _____ August _____ 2021 № 14

Head of Department



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Approved by the methodical commission of
KhNMU on problems dental profile

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Protocol from
"02" __ September _____ 2021__year №_4_

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INTRODUCTION

Syllabus training discipline «Propaedeutics of Prosthetic dentistry» compiled in accordance with the educational and professional program (hereinafter - OPP) "Dentistry" and the Standard of Higher Education of Ukraine (hereinafter - the Standard), the second (master's) level, field of knowledge 22 "Health", specialty 221 "Dentistry".

Description of the discipline (abstract) This discipline, a separate course of which is to gain knowledge of examination and diagnosis of defects of hard tissues of teeth and small partial defects of the dentition and allows students to master in the clinic certain dental manipulations used in the treatment of patients with these pathologies. The spread of such problems in modern society and the need to remove them only in an orthopedic clinic makes it necessary to study methods of treatment of these defects with different designs of microprostheses and the basis of classical methods and modern ones. The special (professional) competencies acquired in this way are further used by educators in the process of treatment of orthopedic dental patients together with acquaintance with the organization and work of clinical offices, preparation of the necessary documentation.

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

The subject study of the discipline is orthopedic treatment of diseases of the dental apparatus:

- defects of the coronal part of individual teeth
- partial loss of teeth.

Interdisciplinary connections: The study involves the prior mastering of disciplines in medical biology, normal and pathological anatomy, histology, embryology and cytology of normal and pathological physiology, bioorganic and inorganic chemistry, biochemistry, medical physics, microbiology, materials science in dentistry, dentistry, propaedeutics, propaedeutics of pediatric therapeutic dentistry, general hygiene.

Prerequisites. The study of the discipline involves the prior mastering of disciplines in medical biology, normal and pathological anatomy, histology, embryology and cytology of normal and pathological physiology, bioorganic and inorganic chemistry, biochemistry, medical physics, microbiology, materials science in dentistry, dentistry, propaedeutics propaedeutics of pediatric therapeutic dentistry, general hygiene.

Postrequisites. The main provisions of the discipline should be applied in the study of related disciplines for 5 years of study, 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.

Link to the discipline page in MOODLE <http://distance.knmu.edu.ua/course/index.php?categoryid=234>

1. PURPOSE AND TASKS OF THE COURSE

1.1. The purpose of teaching the discipline "Propaedeutics of Prosthetic dentistry" is to provide training for highly qualified specialists in the field of medicine, namely, in dentistry, able to solve complex problems of diagnosis, treatment and prevention of diseases.

1.2. The main tasks of studying the discipline "Propaedeutics of Prosthetic dentistry" is the acquisition by students of competencies in accordance with the general and professional competencies of the educational-

professional program "Dentistry" of the second level of higher education in the specialty 221 Dentistry (discipline "Prosthetic dentistry").

1.3. Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the OPP and Standard).

1.3.1. The study of the discipline provides students with the acquisition of competencies: In accordance with the requirements of the standard, the discipline provides education for students

– *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 apply knowledge in practice; skills of using information and communication technologies; ability to search, process and analyze information from various sources; ability to adapt and act in a new situation; ability to work in a team; 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, techniques and technologies. active recreation and leading a healthy lifestyle.

– *special (professional, subject)*:

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; ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region; ability to maintain regulatory medical records; ability to provide legal support for one's own professional activity; ability to provide home care according to the protocols of tactical medicine.

1.3.2. The study of the discipline ensures the acquisition by students of the following program learning outcomes:

The course covers the main aspects of training a future orthopedic dentist.

According to the training program in the discipline "Propaedeutics of Prosthetic dentistry", the applicant will acquire theoretical knowledge, methodological training, practical skills and abilities in the following areas:

- 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 about the person, his organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2).
- Collect information about the general condition of the patient, assess the psychomotor and physical development of the patient, the condition of the organs of the maxillofacial area, based on the results of laboratory and instrumental studies to assess information about the diagnosis (list 5).
- 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.
- Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.
- Adhere to the requirements of ethics, bioethics and deontology in their professional activities.
- 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). Biomechanics of lower jaw movements.

1.3.3. The study of the discipline provides the acquisition by students of the following social skills (Soft skills):

- communicativeness (realized through: the method of group work 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).

2. INFORMATION SCOPE OF THE COURSE

2.1 Description of the discipline

Description of the discipline

Name of indicators	Field of knowledge, specialty, educational and qualification level	Characteristics of the discipline
		full-time education
Number of credits - 4.0	Branch of knowledge <u>22 "Health care"</u> (code and name)	Normative
The total number of hours is 120	Specialty: <u>221 "Dentistry»</u> (code and name)	Year of preparation:
		2nd
		Semester
		3 and 4
Hours for day (or evening) form of study: classrooms - 70 independent work of the student - 50	Education level: Second (master's) EPP <u>Dentistry</u>	Lectures
		6 years
		Practical, seminar
		64 years
		Laboratory
		0 years
		Individual work
50 years		
		Individual tasks:
		Type of control: Differentiated credit

2.2.1 Lectures

№ s / n	Name topics	Number hours	Type of lecture
1	Prosthetic dentistry as a medical science. Organs of the dental-maxillary system and their functions.	2	
2	Examination of patients in the clinic of Prosthetic dentistry (part 1)	2	
3	Examination of patients in the clinic of Prosthetic dentistry (part 2)	2	
	Hours in general	2	

2.2.2 Seminars

№ s / n	Name topics	Number hours	Teaching methods	Forms of control
1				
2				
...				
	Hours in general			

2.2.3 Practical classes

№ s / n	Name topics	Number hours	Teaching methods	Forms of control
1	Organizational principles of the orthopedic office.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
2	Functional anatomy of the masticatory apparatus.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
3	Neuromuscular complex of the human dental and maxillofacial apparatus.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
4	Anatomical features of the structure of the temporomandibular joint.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
5	Teeth, dentitions. Groups of teeth, anatomotopography.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.

6	Physiological and pathological types of bites.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
7	Articulation and occlusion.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
8	Examination of patients in the clinic of Prosthetic dentistry. FINAL LESSON	4	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
9	Classification of prints and impression materials.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
10	Solid crystallization impression materials, their characteristics and applications.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
11	Thermoplastic impression materials, their characteristics and applications.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
12	Alginate impression materials, their characteristics and applications.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster

			situations, case method, project method, debate, brainstorming method.	report and others.
13	Silicone impression materials, their characteristics and applications.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
14	Materials for duplicating models and materials for making refractory models.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
15	Obtaining models of jaws. Apparatus that reproduce the movements of the lower jaw.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
16	Modeling materials.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
17	Plastic dental construction materials. FINAL LESSON	4	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
18	Construction alloys of metals to dentures	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
19	Classification of denture designs.	2	Narrative-explanation, conversation, lecture, illustration, demonstration,	Oral interview (individual and frontal); written survey; test control; creative tasks;

			presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
20	Clinical application of stamped crowns.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
21	Clinical application of plastic crowns.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
22	Clinical application of cast crowns.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
23	Clinical application of solid combined crowns. FINAL LESSON.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
24	Clinical application of stamped-soldered bridges (mechanical, chemical, electrolytic).	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
25	Clinical application of solid bridge prostheses	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.

26	Clinical application of combined bridges. FINAL LESSON.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
27	Clinical use of partial removable dentures.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
28	Clinical use of clasp prostheses.	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
29	Clinical use of complete removable dentures. FINAL LESSON	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
30	DIFFERENTIAL CREDIT	2	Narrative-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, modeling of processes and situations, case method, project method, debate, brainstorming method.	Oral interview (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; mutual control; self-control; report; declamation; poster report and others.
	Hours in general	64		

2.2.4. Laboratory classes

№ s / n	Name topics	Number hours	Teaching methods	Forms of control
1				
2				
...				
	Hours in general			

2.2.5. Individual work

№ s / n	Name topics	Number hours	Teaching methods	Forms of control
1	Topic 1.1. History of development of Prosthetic dentistry .	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 2.1. The contribution of Ukrainian scientists to the development of Prosthetic dentistry. Kharkiv School of Orthopedic Dentists.	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 3.1. Master the ability to draw the mUDCular apparatus of the upper and lower jaw and explain the mechanisms of the main and additional functions of the masticatory mUDCles.	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 4.1. Master the ability to draw the structure and explain the mechanisms of movement of the temporomandibular joint.	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 5.1. Master the ability to draw the anatomical structure of the upper and lower jaw.	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 6.1. Explain the vertical movements of the lower jaw.	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 7.1. Explain lateral transverse movements of the mandible.	3	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 8.1. Examination of patients in the clinic of Prosthetic dentistry. Additional methods of examination of patients	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.

	in the clinic of Prosthetic dentistry			
	Topic 9.1. Physico-chemical properties of basic and auxiliary materials used in the manufacture of solid crowns.	4	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
6	Topic 20.1. Methods of stamping metal crowns.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 21.1. Technology of making plastic crowns.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 22.1. Technology of production of combined crowns.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 23.1. Methods of casting metal crowns.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 24.1. Methods and technology of processing plastic, combined crowns.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 24.2. Anesthesia during the preparation of abutment teeth for solid crowns and bridges.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 25.1. Types of the intermediate part of bridges.	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 25.2. Technology of soldering and processing of bridges (mechanical, chemical, electrolytic).	2	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 26.1. Casting.	2	Study and analysis of basic	Oral interview; creative tasks;

	Technology of casting the intermediate part and the entire frame of the bridge.		and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
7	Topic 27.1. Modeling rules and technology of making solid prostheses.	1	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 29.1. Methods of parallelometry.	1	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Topic 29.2. Rules of modeling and technology of making clasp prostheses.	1	Study and analysis of basic and auxiliary literature, videos, videos, discussion, case method, "Brainstorming", webinar, virtual consultation.	Oral interview; creative tasks; individual tasks; abstracts; portfolio method; self-control; report; declamation; poster report and others.
	Hours in general	50		

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"

Evaluation of current and general educational activities (IPA)

IPA is considered fulfilled if the applicant in the current semester has completed all the missed classes and lectures, and the average score for all topics of the PC is 3 points or higher, in which case the statement is marked "completed" and indicates the average score in 4-point system (is calculated automatically within the functionality of the electronic journal of ACS), or "unfinished", if the applicant in the current semester has unfinished missed classes and lectures, or an average score below 3 points.

Final score for **HDPE** in the semester is defined as the arithmetic mean of national grades for each lesson and PC, rounded to 2 decimal places and converted into a multi-point scale according to Table 1 in accordance with "Instructions for evaluating the educational activities of higher education seekers in KhNMU ».

General educational activity (CIS) is considered completed if the applicant has completed all the missed classes and lectures, and the average score for all PC topics is equal to 3 points and above. CIS scores for disciplines with the form of control "differentiated credit" are calculated as the arithmetic mean of PC scores for all topics of all semesters, during the entire period of study of the discipline (to the nearest hundredth) according to table 1 "Conversion of average score for current control within the functionality of the electronic journal of the ACS. FAR is defined in points from 70 to 120. FAR is defined in points from 120 to 200.

Table 1

Recalculation of the average score for current activities in a multi-point scale (for disciplines ending in d / s)

4-point scale	200-point scale	4-point scale	200-point scale
5	120	3.91-3.94	94
4.95-4.99	119	3.87-3.9	93
4.91-4.94	118	3.83- 3.86	92

4-point scale	200-point scale	4-point scale	200-point scale
4.87-4.9	117	3.79- 3.82	91
4.83-4.86	116	3.74-3.78	90
4.79-4.82	115	3.7- 3.73	89
4.75-4.78	114	3.66- 3.69	88
4.7-4.74	113	3.62- 3.65	87
4.66-4.69	112	3.58-3.61	86
4.62-4.65	111	3.54- 3.57	85
4.58-4.61	110	3.49- 3.53	84
4.54-4.57	109	3.45-3.48	83
4.5-4.53	108	3.41-3.44	82
4.45-4.49	107	3.37-3.4	81
4.41-4.44	106	3.33- 3.36	80
4.37-4.4	105	3.29-3.32	79
4.33-4.36	104	3.25-3.28	78
4.29-4.32	103	3.21-3.24	77
4.25- 4.28	102	3.18-3.2	76
4.2- 4.24	101	3.15- 3.17	75
4.16- 4.19	100	3.13- 3.14	74
4.12- 4.15	99	3.1- 3.12	73
4.08- 4.11	98	3.07- 3.09	72
4.04- 4.07	97	3.04-3.06	71
3.99-4.03	96	3.0-3.03	70
3.95- 3.98	95	Less 3	Not enough

Conducting and evaluating differentiated credit. For disciplines, the form of control is "differentiated credit" it is assumed that the admission to the DR is calculated in points of CIS from 70 to 120 points. Directly DZ is estimated from 50 to 80 points.

Differentiated credit is made by the teacher of the group, or another teacher of the department at the last practical lesson, the score is recalculated according to tables 5 and 6, according to "Instructions for evaluating the educational activities of higher education seekers in KhNMU ».

Table 5

**Criteria for scoring practical skills,
which are included in differentiated tests**

Number of skills	«5»	«4»	«3»	The answer to the tickets of the practical part	For each practical skill the student receives from 5 to 8 points, which corresponds to: "5" - 8 points; "4" - 6.5 points; "3" - 5 points.
1	8	6.5	5		
2	8	6.5	5		
3	8	6.5	5		
4	8	6.5	5		
5	8	6.5	5		
	40	32.5	25		

Table 6

**Criteria for scoring theoretical knowledge,
which are included in differentiated tests**

Number of questions	«5»	«4»	«3»	Oral answer for tickets, which include the theoretical part of the discipline	For each answer the student receives from 5 to 8 points, which

1	8	6.5	5	corresponds to: "5" - 8 points; "4" - 6.5 points; "3" - 5 points.
2	8	6.5	5	
3	8	6.5	5	
4	8	6.5	5	
5	8	6.5	5	
	40	32.5	25	

Grade from the discipline

For disciplines, the form of control is "differentiated credit" it is assumed that the admission to the DR is calculated in points of CIS from 70 to 120 points. Directly DZ is estimated from 50 to 80 points. The grade in the discipline is the sum of points for ZND, IZZ and DZ and ranges from 120 to 200 points.

After conducting semester control for the discipline, ending with the form of control "differentiated test", responsible for the organization of educational and methodical work at the department or the teacher is exhibited to the applicant the corresponding assessment according to table 3 "Assessment scale in KhNMU", which is attached (Annex 3) to the individual curriculum of the applicant and fills in the progress of the discipline on the basis of "Instructions for evaluating the educational activities of higher education seekers in KhNMU», From 21.08.2021 №181.

Table 3

Evaluation scale at KhNMU

Rating on a 200-point scale	Assessment on the ECTS scale	Score for four-point scale
180–200	AND	Perfectly
160–179	IN	Fine
150–159	WITH	Fine
130–149	D	Satisfactorily
120–129	E	Satisfactorily
Less than 120	F, Fx	Unsatisfactorily

3.2. Questions for credit and exam:

A list of theoretical questions to prepare students for the final lesson

«Propaedeutics of Prosthetic dentistry »

Morphological and functional anatomy of the human masticatory apparatus. Diagnosis in Prosthetic dentistry

1. Prosthetic dentistry - definition, purpose, tasks. Scientists who have contributed to the development of domestic Prosthetic dentistry.
2. Organizational principles of the orthopedic department and office. Asepsis and antiseptics.
3. Anatomical structure of the upper and lower jaw. Common features and differences in their development and structure.
4. The structure of the temporomandibular joint, the connection of the lower jaw with the base of the skull.
5. The relationship between the structure and function of the temporomandibular joint.
6. Chewing mUDCles and their functions are normal.
7. Facial mUDCles, its functions.
8. Teeth, dentition, occlusion.
9. Characteristics of orthognathic occlusion.
10. Physiological variants of orthognathic occlusion, their characteristics.
11. Pathological bites. The concepts of "articulation" and "occlusion". Types of occlusion. Signs of central occlusion.
12. Clinical methods of examination of an orthopedic patient.
13. Chewing force, chewing efficiency, chewing pressure, chewing strength. Methods for determining masticatory efficiency.
14. Determination of chewing efficiency by PI Atipov, IM Oksman.

15. Functional chewing tests according to IS Gelman, IS Rubinov, Christensen.
16. Mastication and its analysis.
17. Classification of dentition defects according to Kennedy.
18. Imprints, their classification. Impression spoons, their characteristics.
19. Stages of obtaining anatomical prints. The boundaries of the anatomical imprint on the upper and lower jaw.
20. Classification of impression materials. Requirements for impression material.
21. Features of obtaining anatomical prints from the upper and lower jaw.
22. Possible complications in obtaining fingerprints and their prevention.
23. Crystallizing impression materials. Physico-chemical properties of gypsum.
24. Methods of obtaining anatomical impressions of plaster from the upper and lower jaw. Phases of gypsum crystallization.
25. Incisions of the plaster cast on the upper and lower jaw.
26. Zinc eugenous masses. Physico-chemical properties.
27. Thermoplastic impression materials. Physico-chemical properties.
28. Stages of obtaining prints with thermoplastic materials.
29. Alginate impression materials. Physico-chemical properties. Stages of obtaining prints by alginate masses.
30. Silicone impression materials.
31. Combined prints. Methods of obtaining combined impressions from the upper and lower jaw.
32. Obtaining models of jaws and design of their bases.
33. Features of obtaining models of prints from different impression materials.
34. Devices that reproduce the movements of the lower jaw.
35. Plastering of models in an occluder at various groups of defects of dentitions.
36. Plastering of models in the articulator at various groups of defects of dentitions.
37. Modeling materials. Classification. Requirements for modeling materials.
38. Physico-chemical properties of modeling materials. Storage. Application.
39. Basic and auxiliary materials used for the manufacture of inlays and splined teeth.
40. Physico-chemical properties of basic and auxiliary materials used for the manufacture of artificial crowns.
41. Physico-chemical properties of basic and auxiliary materials used for the manufacture of bridges.
42. Physico-chemical properties of basic and auxiliary materials used for the manufacture of partial removable prostheses.
43. Physico-chemical properties of basic and auxiliary materials used for the manufacture of complete removable prostheses.
44. Tabs. Indications for manufacture. Clinical and laboratory stages of manufacture.
45. Shpenikov teeth. Indications for manufacture. Clinical and laboratory stages of manufacture.
46. Artificial crowns. Indications, manufacturing requirements. Classification.
47. Clinical and laboratory stages of making artificial crowns.
48. Bridge prostheses. Classification. Indications for manufacture. Requirements for bridges.
49. Classification of defects of dentitions according to AI Bethelman, Kennedy.
50. Clinical and laboratory stages of manufacturing bridge bridges.
51. Removable prostheses (partial). Indications for manufacture.
52. Removable prostheses (complete). Classification of edentulous jaws according to Schroeder, Keller.
53. Be able to diagnose an orthopedic patient according to the classifications of dentition defects according to Bethelman and Kennedy.
54. Be able to calculate chewing efficiency.
55. Be able to model the anatomical crown and root of teeth (incisors, canines, premolars, molars).
56. Be able to choose a impression spoon on the upper and lower jaw depending on the impression mass.
57. Be able to prepare a crystallizing impression mass.
58. Be able to prepare a thermoplastic impression mass.
59. Be able to prepare an alginate impression mass.
60. Be able to prepare a silicone impression mass.
61. Have the technique of obtaining an anatomical impression of the upper and lower jaw crystallizing impression mass.

62. Be able to make sections of plaster prints.
63. Have the technique of obtaining an anatomical impression of the upper and lower jaw thermoplastic impression mass.
64. Have the technique of obtaining an anatomical impression of the upper and lower jaw alginate impression mass.
65. Have the technique of obtaining an anatomical impression of the upper and lower jaw with a silicone impression mass.
66. Be able to assess the quality of the print.
67. Have the technique of making models of the upper and lower jaw and the design of their base.
68. Be able to plaster models of jaws in the occluder and articulator.
69. To have the technique of preparation of carious cavities of the I class according to Black under tabs.
70. To have the technique of preparation of carious cavities of the II class according to Black under tabs.
71. To possess the technique of preparation of carious cavities of the III class according to Black under tabs.
72. Have the technique of preparation of carious cavities of class IV according to Black for tabs.
73. Have the technique of preparation of carious cavities of class V according to Black for tabs.
74. Be able to model the intermediate part of the bridge.
75. To be able on models to carry out preparation of teeth for production of fixed designs of prostheses.

PROGRAM OF THE SEMESTER DIFFERENTIAL CREDIT ON PROPEDEUTICS OF PROSTHETIC DENTISTRY FOR EDUCATORS OF THE 2TH COURSE OF DENTISTRY.

1. Prosthetic dentistry, purpose and tasks.
2. History of development of Prosthetic dentistry.
3. Organization and structure of the orthopedic department of the dental clinic.
4. Clinic and dental laboratory equipment.
5. Acquaintance with the workplace of an orthopedist and dental technician.
6. Medical documentation in the orthopedic department.
7. Fundamentals of occupational health of doctors and medical staff.
8. Functional anatomy of the masticatory apparatus.
9. Anatomical structure of the upper and lower jaw. General features and differences in their development and structure.
10. The contribution of Ukrainian scientists to the development of Prosthetic dentistry. Kharkiv School of Orthopedic Dentists
11. Biomechanics of the dental system.
12. Neuromuscular complex of the human dental apparatus.
13. Anatomical features of the structure of the temporomandibular joint.
14. Teeth, dentitions. Groups of teeth, anatomotopography.
15. Anatomical structure of the upper and lower jaw.
16. Physiological and pathological types of bites.
17. Articulation and occlusion.
18. Methods for determining the height of the bite (central occlusion).
19. Signs of central occlusion in orthognathic occlusion.
20. Sagittal movements of the lower jaw.
21. Transverse movements of the lower jaw.
22. Playing devices movements of the lower jaw.
23. The act of chewing and swallowing.
24. Examination of patients in the clinic of Prosthetic dentistry.
25. Methods of examination of patients and diagnosis.
26. Instrumental and instrumental methods of examination.
27. X-ray examination methods.
28. Anthropometric study of jaws and dental arches.
29. Absolute strength of masticatory muscles, masticatory pressure and methods of their determination.
30. Methods for determining masticatory efficiency.

31. Methods of studying the general condition of the organism.
32. Content and formulation of the diagnosis.
33. Preparing the patient for dental prosthetics.
34. Special preparation for prosthetics.
35. Classification of materials used in Prosthetic dentistry.
36. Requirements for dental materials and their properties.
37. Basic and auxiliary materials.
38. Imprints and impression materials in the clinic of Prosthetic dentistry.
39. Characteristics of prints and methods of obtaining them.
40. Models and materials for their manufacture.
41. Modeling materials and their use.
42. Metals and alloys used in Prosthetic dentistry. Features of their application.
43. Artificial teeth.
44. Plastics in dentures.
45. Composite materials for dentures.
46. Ceramic masses, their types and applications.
47. Molding masses.
48. Materials for processing of dental products.
49. Materials for fixing fixed structures.
50. Classification of tooth defects and their replacement.
51. Clinical use of tabs.
52. Restoration of damaged teeth with pin structures.
53. Artificial crowns. Restoration of damaged teeth with artificial crowns.
54. Plastic crowns.
55. Clinical application of combined crowns
56. Production of stamped metal crowns.
57. Technology of making solid crowns.
58. Clinical application of metal-plastic crowns.
59. Treatment of patients with dental defects with metal-ceramic crowns.
60. Methods and technology of metal-ceramic crowns processing.
61. Anesthesia during the preparation of abutment teeth for solid crowns and bridges.
62. Replacement of partial defects of the dentition with bridges.
63. Stamped-brazed bridges.
64. Types of the intermediate part of bridges.
65. Technology of soldering and processing of bridges (mechanical, chemical, electrolytic).
66. Replacement of dentition defects with solid bridges.
67. Technology of casting the intermediate part and the entire frame of the bridge.
68. Modeling rules and technology of making solid prostheses.
69. Metal-plastic bridge prostheses.
70. Replacement of dentition defects with metal-ceramic bridges.
71. Errors and complications that may occur when using bridges.
72. Technique of cutting and removing metal crowns.
73. Replacement of dentition defects by partial removable denture structures.
74. Production of partial removable plate prostheses.
75. Replacement of dentition defects with clasp dentures.
76. Rules of modeling and technology of making clasp prostheses.
77. Complications and errors in the case of clasp prostheses.
78. Clinical picture and prosthetics in case of complete absence of teeth.
79. Production of complete removable plate prostheses.
80. Methods and techniques of making individual spoons.
81. Functional prints.
82. The reaction of the tissues of the prosthetic bed to removable prostheses.

83. Methods of repairing removable plate prostheses.
84. The sequence of manipulations in determining the height of the central ratio by the anatomical-functional method.
85. Methods of plastering in a polymerization cuvette.
86. Methods of preparation of basic plastics, phases of plastic maturation.
87. Technology of replacement of wax reproductions of prostheses with plastic.
88. Modes of polymerization of base plastics of hot and cold hardening.
89. Types of porosity of plastics.
90. Materials for restoration of bases of removable prostheses.

3.3. Control questions and tasks for independent work

Independent work of students, which is provided by the topic of the lesson along with classroom work, is assessed during the current control of the topic in the relevant lesson.

Topic 1.1. History of development of Prosthetic dentistry.

Topic 2.1. The contribution of Ukrainian scientists to the development of Prosthetic dentistry. Kharkiv School of Orthopedic Dentists.

Topic 3.1. Master the ability to draw the mUDCular apparatus of the upper and lower jaw and explain the mechanisms of the main and additional functions of the masticatory mUDCles.

Topic 4.1. Master the ability to draw the structure and explain the mechanisms of movement of the temporomandibular joint.

Topic 5.1. Master the ability to draw the anatomical structure of the upper and lower jaw.

Topic 6.1. Explain the vertical movements of the lower jaw.

Topic 7.1. Explain lateral transverse movements of the mandible.

Topic 8.1. Examination of patients in the clinic of Prosthetic dentistry. Additional methods of examination of patients in the clinic of Prosthetic dentistry.

Topic 9.1. Physico-chemical properties of basic and auxiliary materials used in the manufacture of solid crowns.

Topic 20.1. Methods of stamping metal crowns.

Topic 21.1. Technology of making plastic crowns.

Topic 22.1. Technology of production of combined crowns.

Topic 23.1. Methods of casting metal crowns.

Topic 24.1. Methods and technology of processing plastic, combined crowns.

Topic 24.2. Anesthesia during the preparation of abutment teeth for solid crowns and bridges.

Topic 25.1. Types of the intermediate part of bridges.

Topic 25.2. Technology of soldering and processing of bridges (mechanical, chemical, electrolytic).

Topic 26.1. Casting. Technology of casting the intermediate part and the entire frame of the bridge.

Topic 27.1. Modeling rules and technology of making solid prostheses.

Topic 29.1. Methods of parallelometry.

Topic 29.2. Rules of modeling and technology of making clasp prostheses.

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):

Types of individual research work of students are the preparation of reports and presentations in accordance with the thematic plan of the module, as well as participation in the work of a scientific student group in Prosthetic dentistry.

3.5. Other incentives

Assessment of individual tasks applicant (hereinafter - IZZ) contribute to a more in-depth study of the theoretical material by the student, the formation of skills to use knowledge to solve relevant practical problems. IE is performed by the applicant independently with the receipt of the necessary advice from the researcher.

- report of the student's abstract on a practical lesson 0 - 2 points;

- report with presentation at the practical lesson 0 - 3 points,
- report at scientific and practical conferences of the department, university, writing abstracts, articles 0 - 5 points;
- participation in the All-Ukrainian Olympiad - 5 - 10 points

SRI is evaluated in points (not more than 10), which are added to the points scored for ZND at the end of the study of the discipline, when conducting a "test".

The total amount of points for ZND and IZZ cannot exceed 200 points.

3.6. Rules for appealing the assessment

The appeal of the assessment received by the applicant of higher education is carried out according to

"Regulations on the appeal of the results of the final control of students of KhNMU", approved by the Order of KhNMU from 30.09.2020 No. 252.

4. DISCIPLINE POLICY

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.

Applicants for education can discuss different tasks, but their implementation is strictly individual. It is not allowed to write off, use various 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 be late for practical classes.

Applicants for education with special needs can meet with the researcher and warn him before the start of classes, at the request of the student, this can be done by the head of the group. If you have any questions, please contact the researcher.

The participation of students in conducting 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 Preventing and Combating 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 Economic, Social and Cultural Rights Committee); Recommendations on education 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 employees 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.

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

- allowed:
 - to leave the audience for a short time if necessary and with the permission of the researcher;
 - drink soft drinks;
 - take photos of presentation slides;
 - take an active part in the lesson).
- 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;
 - to use obscene language or use words that offend the honor and dignity of colleagues and faculty;
 - gaff;
 - to damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
 - shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

5. ACADEMIC INTEGRITY

The Department of Prosthetic dentistry maintains zero tolerance for plagiarism. Applicants are expected to constantly raise their awareness of academic writing. The first classes will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

Occupational 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.

6. RECOMMENDED LITERATURE

Basic:

1. Rozhko MM, Nespryadko VP "Prosthetic dentistry". - К .: Книга плюс, 2020. - 552 с. 11. - 228.
2. Rozhko MM, Nespryadko VP "Dental prosthetics". - К .: Книга плюс, 2017. - 543 с.
3. Propaedeutics of Prosthetic dentistry / ed. King MD - Vinnytsia: New book, 2019. - 240 p.
4. King MD, Odzhubeykaya OD "Cement for fixing fixed prostheses". - Vinnytsia: New book, 2006.-96 p.
5. Vlasenko AZ, Strelkovsky KM for order. Fleece P.S. "Dental materials science". - Kyiv "Health" 2017.-332 p.

Auxiliary:

1. Abdurakhmanov AN, Kurbanov OR Materials and technologies in Prosthetic dentistry. Textbook. - М .: Медицина, 2013. - 208 с.
2. Abolmasov NG, Abolmasov NN Prosthetic dentistry. - М .: Med. Press-inform, 2016. - 576 p.
3. Vlasenko AZ, Strelkovsky KM for order. Fleece P.S. "Technology of making dentures using ceramic and composite materials." - Kyiv "Health" 2017.-164 p.

7. INFORMATION RESOURCES.

Methodical instructions:

1. Sanitary and epidemiological regime of the orthopedic department of the dental clinic. Golik VP, Yanishen IV, Yushchenko PL, Dyudina IL, Berezhnaya EO -2018

<http://repo.knmu.edu.ua/handle/123456789/22246>

<http://repo.knmu.edu.ua/handle/123456789/9145>

2. Cements for permanent fixation of orthopedic structures. Golik VP, Yanishen IV, Maslovsky AS, Berezhnaya EO, Pogorelaya AV -2017

<http://repo.knmu.edu.ua/handle/123456789/9040>

3. Modern methods of examination of dental patients. Preparation of the oral cavity before orthopedic intervention. Drawing up a treatment plan for a dental patient. Yanishen IV, Pereshivailova IO, Pogorila AV, Yarina IM - 2018

<http://repo.knmu.edu.ua/handle/123456789/22247>

Lectures:

1. Excessive attrition of hard tissue teeth. Dudina IL - 2018.

<http://repo.knmu.edu.ua/handle/123456789/8698>

2. Prosthetic dentistry as the medical science. Organs of masticatory system and their function. Dudina IL-2020.

<http://repo.knmu.edu.ua/handle/123456789/8746>

3. Occlusion. Factors of occlusion. The clinical meaning recovery the individual occlusion, means and stages it's achievements. Dudina IL - 2018.

<http://repo.knmu.edu.ua/handle/123456789/8745>

4. Maxillofacial orthopedics. Goals and objectives. Classification of jaw fractures. Clinical, diagnostic, orthopedic treatment. Tomilin, VG -2020.

<http://repo.knmu.edu.ua/handle/123456789/12147>

5. Patient's examination in Prosthetic dentistry clinic. Clinical methods of examination. Additional (special) methods of examination. Diagnostic procedures in Prosthetic dentistry. Tomilin, VG -2021.

<http://repo.knmu.edu.ua/handle/123456789/12141>

6. Dental materials science is the applied science of materials for dentistry. Maslovsky AS -2019

<http://repo.knmu.edu.ua/handle/123456789/12121>

7. Orthopedic methods of treatment in the complex treatment of periodontal diseases. Maslovsky AS -2020

<http://repo.knmu.edu.ua/handle/123456789/12139>

8. Adaptation to removable prosthesis in orthopedic treatment of dentition partial defects. Mistakes and complications in orthopedic treatment by removable dentures. Tomilin, VG -2021.

<http://repo.knmu.edu.ua/handle/123456789/12144>

8. OTHER

Active links:

1. <http://www.nmu.edu.ua/kaf59.php>
2. <http://eduport.nmu.edu.ua/>
3. <http://goo.gl/enEezy>.