



Syllabus «Prosthetic dentistry»

1. General information	
Faculty name	Dentistry faculty
Educational program (specialty, level of higher education, teaching form)	22 Healthcare, 221 Dentistry, second (master's) level of higher education, full-time
Academic year	2022-2023
Name of discipline, code	Prosthetic dentistry OK 52
Department	Department of prosthetic dentistry Lviv, Pekarska St. 69a tel/fax: (032) 276-06-41 Kaf_prostheticdent@meduniv.lviv.ua
The head of department	Assoc. Prof. Kukhta Viktor Stepanovych viktor.kukhta@gmail.com
Year of study	The third
Semester	5 semester 6 semester
Type of discipline / module	Mandatory discipline
Teachers	Assoc. Prof Kulinchenko R.V. Kaf_prostheticdent@meduniv.lviv.ua
Erasmus yes/no	No
The person responsible for the syllabus	Assoc. Prof. Klyuchkovska N.R. Assoc. Prof Kulinchenko R.V.
Number of ECTS credits	7 credits ECTS
Number of hours	L – 16 hours P – 89 hours S – 105 hours
Learning language	English
Information about consultations	According to the calendar schedule of consultations
Address, telephone and regulations of the clinical base, bureau	Lviv, Pekarska St. 69a tel/fax: (032) 276-06-41

2. Short annotation to the course

Prosthetic dentistry is a discipline that allows students to master in the clinic certain dental manipulations used in the treatment of patients with defects of the crown of the tooth, with partial defects of the dentition. Acquired in this way special (professional) competencies students later use in the treatment of dental patients of orthopedic profile. Students get acquainted with the organization and work of clinical offices, documentation.

3. The purpose and objectives of the course

The purpose of teaching the discipline "Orthopedic Dentistry" is mastery of patients in the technique of certain dental manipulations used in the treatment of patients with defects of the crown of the tooth, with partial adentia, for their further use in the treatment of patients and the formation of special (professional) competences in dentistry/

The main tasks of studying the discipline "Orthopedic Dentistry" are: Examination of patients in the clinic of orthopedic dentistry

- Functional anatomy and clinical biomechanics of the dental apparatus
- Anesthesia in the clinic of orthopedic dentistry. Emergencies
- Clinical and laboratory stages of making artificial crowns
- Clinical and laboratory stages of manufacturing bridge-like prostheses
- Examination of patients with partial tooth loss. General characteristics and design planning of partial removable dentures
- Clinical and laboratory stages of manufacturing partial removable plate prostheses
- Clinical and laboratory stages of manufacturing clasp prostheses and prostheses with cast metal base
- Adaptation to removable dentures and the impact of dentures on oral tissues

3K:

1. Ability to abstract thinking, analysis and synthesis; ability to learn and be modernly trained.
2. Knowledge and understanding of the subject area and understanding of the profession.
3. Ability to apply knowledge in practical situations.
4. Ability to communicate in the state language both orally and in writing. Ability to communicate in a second language.
5. Skills in the use of information and communication technologies.
6. Ability to search, process and analyze information from various sources.
7. Ability to adapt and act in a new situation; ability to work autonomously.
8. Ability to identify, pose and solve problems.
9. Ability to choose a communication strategy.
10. Ability to work in a team.
11. Interpersonal skills.
12. Ability to act on the basis of ethical considerations (motives).
13. Skills for safe activities
14. Ability to evaluate and ensure the quality of work performed.
15. The desire to preserve the environment.
16. Ability to act socially responsible and civic conscious.

ΦK:

1. Recognize the moral, ethical and professional rules of the dentist
2. Understand the moral and deontological principles of a medical specialist and the rules of professional subordination in the clinic of orthopedic dentistry
3. Learn to promote a healthy psychological microclimate in the team; to master the legal norms of the dentist-patient relationship
4. To establish the preliminary and final diagnosis on the basis of survey data (clinical and laboratory);
5. Make a plan of orthopedic treatment;
6. To make the plan of preparation of an oral cavity of the patient for prosthetics;
7. To receive an imprint for production of all-cast fixed designs;
8. To receive an imprint for production of stamped and stamped-soldered prostheses;
9. To fix the central occlusion at 1 group of defects by means of occlusal blocks;
10. Determine the position of the upper jaw with a facial arch;

11. Know the methods of anesthesia for tooth preparation;
 12. To carry out retraction of gums;
 13. Prepare phantom teeth under a stamped metal crown;
 14. Prepare phantom teeth under a solid metal and combined crown;
 15. Plan the design of the bridge;
 16. Check the design of artificial crowns;
 17. Check the design of the bridge;
 18. Fix crowns and bridges;
 19. Remove the crowns.
 20. Get an impression of the lower and upper jaws for the manufacture of partial removable dentures;
 21. To fix the central ratio of jaws at 2,3 groups of defects by means of occlusal rollers;
 22. Plan the design of a partial removable prosthesis;
 23. Carry out parallelometry of the diagnostic model and plan the clasp fixation of the clasp prosthesis;
 24. Check the design of a partial removable prosthesis;
 25. To correct a partial removable prosthesis;
 26. Relocate a partial removable prosthesis;
 27. Distinguish features of application of principles in asepsis and antiseptics in clinic of orthopedic dentistry:
 28. To study modern requirements for sterilization of instruments in the pediatric dentistry clinic;
 29. To learn the importance of following the rules of asepsis and antiseptics at the dental office;
 30. Master the rules of control over the effectiveness of sterilization;
 31. Determine methods of preventing conditions for the spread of infection in medical institutions
- ЗН: 1. Know the current trends in the industry and the indicators that characterize them
2. Know the features of the professional activity of a dentist
 3. Know the methods of implementing knowledge in solving practical problems
 4. Know the state language, including professional orientation. Know a foreign language at a level sufficient for professional communication
 5. Have modern knowledge in the field of information and communication technologies used in professional activities
 6. Have the necessary knowledge in the field of information technology used in professional activities
 7. Know the methods of realization of knowledge in solving practical problems
 8. Know the methods of implementing knowledge in identifying, setting and solving problems of professional activity
 9. Know the methods of implementing knowledge in choosing a strategy for communicating with patients and colleagues
 10. Know the ways of collective interaction while working in a team
 11. Know the ways of interpersonal interaction when communicating with colleagues and patients
 12. Know the moral and ethical principles of a medical specialist and the rules of professional subordination
 13. Ability to assess the level of danger when performing professional tasks
 14. Ability to assess and ensure quality in the performance of professional tasks
 15. Ability to assess the state of the environment
 16. Know your social and community rights and responsibilities
 17. Know the basic provisions of the Code of Ethics of a dentist
 18. Know the moral and deontological principles of a medical specialist and the rules of professional subordination in the clinic of orthopedic dentistry
 19. Know the current legal norms of the relationship between dentist and patient
 20. Know the equipment of the dental office, the main dental tools, composition, properties and indications for the use of dental materials used in the clinic of orthopedic dentistry
 21. Know the execution algorithms on phantoms
 22. Know the basic principles of asepsis and antiseptics in the clinic of orthopedic dentistry, modern methods of disinfection and sterilization of dental equipment and tools
- УМ.: 1. To be able to analyze professional information, make informed decisions, acquire modern knowledge
2. Be able to carry out professional activities that require updating and integration of knowledge

3. Be able to use professional knowledge to solve practical problems
 4. Be able to use the state language and a foreign language for professional activities and communication
 5. Be able to use information and communication technologies in the professional field, which requires updating and integration of knowledge
 6. Be able to use information technology in the professional field to search, process and analyze new information from various sources
 7. Be able to use professional knowledge to adapt and act in a new situation
 8. Be able to use professional knowledge to identify, formulate and solve problems of professional activity
 9. Be able to use knowledge to choose a strategy for communicating with patients and colleagues
 10. Be able to use knowledge to choose a communication strategy during collective interaction
 11. Be able to use knowledge to choose a communication strategy during interpersonal interaction
 12. Use in practice the moral and ethical principles of the medical specialist and the rules of professional subordination
 13. Be able to carry out professional activities in compliance with safety rules
 14. Know the methods of assessing performance indicators
 15. Be able to analyze indicators of the quality of the environment.
 16. To form the civil consciousness, to be able to act according to it
 17. To use in practice the code of ethics of the dentist
 18. To use in practice the moral and deontological principles of a medical specialist and the rules of professional subordination in the clinic of orthopedic dentistry
 19. Use in practice the legal norms of the relationship between dentist and patient.
 20. Be able to form a healthy psychological microclimate in the team
 21. To be able to use the equipment of a stomatologic office, the basic stomatologic tools and the dental materials used in clinic of orthopedic stomatology;
 22. Be able to perform dental manipulations on phantoms.
 23. Be able to organize disinfection and sterilization of dental equipment and tools; to monitor the effectiveness of sterilization
- AB: 1. To be responsible for the timely acquisition of modern knowledge
2. To be responsible for continuous professional development with a high level of autonomy
 3. To be responsible for the validity of the decisions made.
 4. To be responsible for continuous professional development with a high level of autonomy
 5. To be responsible for the continuous development of professional knowledge and skills
 6. To be responsible for the continuous development of professional knowledge and skills
 7. To be responsible for the quality of professional tasks in a new situation
 8. To be responsible for the validity of the decisions made on the decision problems of professional activity
 9. To be responsible for continuous professional development with a high level of autonomy
 10. To be responsible for continuous professional development
 11. To be responsible for continuous professional development with a high level of autonomy
 12. To bear personal responsibility for observance of moral and ethical principles of the medical specialist and rules of professional subordination
 13. To bear personal responsibility for observance of safety rules at performance of professional tasks
 14. Establish connections to ensure quality work
 15. To bear personal responsibility for observance of rules of preservation of environment at performance of professional tasks
 16. Be responsible for your civic position and activities
 17. To bear personal responsibility for observance of provisions in practical activity
- Code of Ethics for Dentists
18. To bear personal responsibility for observance of moral and deontological principles of the medical specialist and rules of professional subordination in clinic of orthopedic stomatology
 19. To bear personal responsibility for observance of the current legal norms of the dentist-patient relationship
 20. To bear personal responsibility for correct use of the equipment of a stomatologic office, the basic stomatologic tools and the stomatologic materials used in clinic of orthopedic stomatology.

21. To bear personal responsibility for the correct execution of dental manipulations on phantoms
 22. Identify methods to prevent conditions for the spread of infection in medical institutions.
 23. To bear personal responsibility for observance of norms of asepsis and antiseptics at stomatologic reception

4. Course details

Interdisciplinary connections: "Orthopedic dentistry" as a discipline
 a) is based on previous study of human anatomy by students; histology, embryology and cytology, medical biology, medical chemistry, biological and bioorganic chemistry, medical physics, microbiology, virology and immunology and integrates with these disciplines;
 b) lays the foundations for students to study such clinical disciplines as orthopedic dentistry, therapeutic dentistry, orthodontics, surgical dentistry;
 c) is based on the study by students of propaedeutic disciplines of dental profile: propaedeutics of orthopedic dentistry, propaedeutics of therapeutic dentistry and propaedeutics of pediatric therapeutic dentistry and integrates with these disciplines;
 d) integrates with the following clinical disciplines: prevention of dental diseases, pediatric therapeutic dentistry and therapeutic dentistry, surgical dentistry.

5. Program learning outcomes

List of learning outcomes

Learning outcome code	The content of the learning outcome	Link to the matrix code competencies Symbol of the Program Learning Outcome Code in the Higher Education Standard
<i>Knowledge (Зн)</i>	Presented in section 3. Purpose and goals	<i>ПП-6, ПП-7, ПП-16, ПП-17, ПП-19, ПП-20</i>
<i>Skills (Ум)</i>	Presented in section 3. Purpose and goals	<i>ПП-1, ПП-2, ПП-3, ПП-4, ПП-5, ПП-6, ПП-7, ПП-10, ПП-13, ПП-18, ПП-19, ПП-20</i>
<i>Competences (ЗК, ФК)</i>	Presented in section 3. Purpose and goals	<i>ФК: ПП-1, ПП-2, ПП-3, ПП-4, ПП-5, ПП-8, ПП-10, ПП-11, ПП-20, ПП-22, ПП-23 ЗК: ПП-6, ПП-7, ПП-9, ПП-16, ПП-18, ПП-19, ПП-20</i>
<i>Autonomy and responsibility (АВ)</i>	Presented in section 3. Purpose and goals	<i>ПП-2, ПП-3, ПП-4, ПП-5, ПП-6, ПП-8, ПП-9, ПП-15</i>

6. Format and scope of the course

Course format (specify full-time or part-time)	Full-time course	
Type of classes	Number of hours	Number of groups
Lectures	16 h	
Practical classes	89 h	
Seminars	-	

Selfstudy		105 h		
7. Topics and content of the course				
Code type classes	Topic	Learning content	Learning result code	Teacher
L-1	Examination of patients in the clinic of orthopedic dentistry. Basic and additional methods of examination. Diagnosis. Anesthesia in the clinic of orthopedic dentistry.	<p>Modern methods of examination in orthopedic dentistry. Issues of asepsis and antiseptics. The general scheme of examination of the patient in the clinic of orthopedic dentistry. Features of examination of the patient in the clinic of orthopedic dentistry.</p> <p>Diagnostic methods necessary for the final diagnosis in the clinic of orthopedic dentistry. Classification of additional examination methods used in the clinic of orthopedic dentistry. Plan of differential diagnosis of a patient with diseases of the maxillofacial area. Treatment plan for a patient with diseases of the maxillofacial area. The sequence of examination of the general and local status of the thematic patient. What tools are needed to examine the patient? What are the essential signs of the disease? What are the complaints of a patient with orthopedic problems? Special methods of examination. X-ray methods of research (orthopantomography, TMJ tomography, electromyography), radiography with contrast (sialography, sinusography, fistulography), - electroodontometry; aesthesiometry; rheography; polarography; echoosteometry, luminescent diagnostics;</p> <p>Methods and tasks of studying diagnostic models. The structure of the orthopedic treatment plan. Forms of current and final reporting in the practice of orthopedic dentist.</p> <p>Pain, its components, leading pathways of pain, the importance of pain in medicine, dentistry, local anesthetics and medications used for local. Types of local anesthesia, potentiated place of anesthesia. Classification of local</p>	3H-2, 3H-3, 3H-13, 3H-19, YM-1, YM-2, YM-11, YM-13, ФК-2, ФК-3, ФК-4, ФК-5, ФК-6, 3K-1, 3K-3, 3K-4, 3K-5, 3K-6, 3K-7, 3K-9, AB-3, AB-6, AB-7, AB-17, AB-20, AB-23	Assoc. Prof. Kulinchenko R.V.

		<p>anesthesia, indications and contraindications for its implementation in orthopedic dentistry. Instrumental and medical equipment for local anesthesia. Premedication and substances used for it in the clinic and hospital. Premedication regimens for patients according to the indications, allergic tests before local anesthesia. Emergency medical care for patients in case of local or general complications before, during, after local anesthesia. Classification of anesthetics. Indications and contraindications for use in orthopedic dentistry. Mechanism of action of local anesthetics. Analgesic effect in local anesthetics of amide groups and esters. Local and general complications that occur during and after local anesthesia</p>		
L-2	<p>Indications, clinical and technological stages of manufacturing of artificial crowns</p>	<p>Features of examination of patients with defects of dental crowns. Construction planning and material selection for artificial crowns. Indications and contraindications to the manufacture of artificial crowns. Classification of artificial crowns. Methods of preparation. Complications during preparation. Gum retraction techniques. Modern methods of fingerprinting. Aesthetic crowns (porcelain, zirconium oxide, composite, plastic). Physico-chemical properties of materials for the manufacture of crowns. Methods of making crowns. Advantages and disadvantages of artificial crowns. Clinical and technological rules for the manufacture of artificial crowns. Requirements for artificial crowns. Application of the facial arch. Provisional crowns, purpose of application, clinical and laboratory stages of production. Criteria for checking the quality of artificial crowns. Marginal fit of artificial crowns. Fixation of artificial crowns. Cements used to fix crowns. Classification of</p>	<p>3H-2, 3H-3, 3H-7, 3H-10, 3H-14, 3H-20, YM-7, YM-9, YM-10, YM-11, YM-21, YM-22, YM-23, ФК-5, ФК-6, ФК-7, ФК-8, ФК-9, ФК-13, ФК-14, ФК-15, ФК-16, ФК-18, ФК-19, 3K-1, 3K-10, 3K-11, AB-1, AB-3, AB-5, AB-13, AB-14,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

		cements. Fixation mechanism.	AB-20, AB-21, AB-22, AB-23	
L-3	Indications, clinical and technological stages of manufacturing of bridge-like prostheses	Classification of dentition defects according to Kennedy. Classification of bridges: by material; by design; by the nature of the mount; in relation to the intermediate part to the alveolar process; by placement of abutment teeth, by functional purpose; by the design of the support part. Methods of preparation for bridges. Types of cervical ledges. Adhesive bridges, advantages, disadvantages. Solid bridge prostheses, classification, indications and anti-indications. Solder bridges. Comparative characteristics of solid and soldered bridges. Biomechanics of bridge prostheses, design features. Cantilever bridges, indications for use. Casting, methods and materials used in the manufacture of bridges. Collapsible models, manufacturing technology, materials, purpose of application. Method of fixing bridges. Cements, their classification. Technique of fixing bridges. Factors that ensure the fixation of bridges.	3H-1, 3H-5, 3H-7, 3H-9, 3H-11, 3H-13, 3H-14, 3H-19, YM-1, YM-3, YM-8, YM-13, YM-19, YM-21, YM-22, ФK-3, ФK-5, ФK-6, ФK-7, ФK-9, ФK-10, ФK-11, ФK-12, ФK-15, ФK-17, ФK-18, ФK-30, 3K-1, 3K-6, 3K-10, 3K-13, 3K-14, AB-4, AB-5, AB-8, AB-10, AB-11, AB-19, AB-22	Assoc. Prof. Kulinchenko R.V.
L-4	Indications, clinical and technological stages of manufacturing of metal-free fixed dentures.	Aesthetics in fixed prosthetics. Classification of carious cavities of teeth according to Black. Classification of inlays. Characteristics of IDOST (index of destruction of the occlusal surface of the tooth). Indications for replacement of defects of hard tissues of the tooth with inlays. Features of preparation of cavities under a tab. Clinical and laboratory stages of prosthetic prosthetics.	3H-2, 3H-3, 3H-7, 3H-10, 3H-14, 3H-20, YM-7, YM-9, YM-10, YM-11, YM-21, YM-22, YM-23,	Assoc. Prof. Kulinchenko R.V.

		<p>Direct and indirect methods of making tabs Technologies of making tabs and crowns by CAD / CAM method. Methods of preparation for metal-free structures. Classification metal-free structures (tabs, veneers, luminaires, crowns, bridges).</p> <p>General indications and contraindications to the manufacture of veneers. Indications and contraindications to the manufacture of porcelain crowns. Indications and contraindications to the manufacture of plastic crowns. Clinical and laboratory stages of making veneers, porcelain crowns. International classification of tabs. Fixation techniques without metal fixed prostheses. Classification of cements for fixing.</p>	<p>ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-10, ФК-15, ФК-16, ФК-18, ФК-19, 3К-1, 3К-10, 3К-11, АВ-1, АВ-3, АВ-5, АВ-13, АВ-14, АВ-20, АВ-21, АВ-22, АВ-23</p>	
L-5	<p>Anatomical and physiological features of masticatory system in case of partial tooth loss. Examination of patients. Design features and comparative characteristics of different types of removable partial dentures (RPD), indications for use. Pre-prosthetic preparation.</p>	<p>Features of examination of patients with partial absence of teeth. Additional research methods for patients with partial absence of teeth. Anatomical and histological structure of the oral mucosa. Anatomical and physiological features of the oral cavity with partial loss of teeth. Methods of preparation of the oral cavity in the manufacture of removable dentures. Changes in the dental-maxillary system due to partial tooth loss. Clinical aspects of partial tooth loss. Morphological changes in the oral cavity with partial loss of teeth. Classification of the length of the dentition. Classification of dentition defects according to Kennedy. Establishment of preliminary and final diagnosis in case of partial tooth loss. Indications for replacement of dentition defects with partial dentures. Comparative characteristics of partial removable prostheses and bridges. Comparative characteristics of partial removable prostheses and clasp prostheses. Characteristics of design features of modern removable prostheses, their</p>	<p>3H-1, 3H-2, 3H-4, 3H-6, 3H-7, 3H-14, 3H-17, 3H-18, 3H-19, 3H-20, 3H-21, УМ-1, УМ-3, УМ-4, УМ-7, УМ-8, УМ-9, УМ-17, УМ-21, УМ-22, ФК-4, ФК-5, ФК-20, ФК-21, ФК-22, ФК-23, ФК-27, ФК-30, ФК-31, 3К-1, 3К-4, 3К-5,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

		functional value. The main components of partial removable dentures. Dental prosthesis design planning.	3K-6, 3K-9, 3K-13, 3K-14, AB-4, AB-8, AB-10, AB-13, AB-18, AB-20, AB-21, AB-22	
L-6	Factors that ensure the fixation of RPD. Planning the design of the RPD depending on the clinical conditions: the choice of abutment teeth and fixing elements, the boundaries of the base of lamellar prostheses. Determination of the relation of the jaws in 1-3 groups of defects of the dentition. Placement of teeth in RPD. Check of a design RPD.	Anatomical, biophysical, mechanical methods of fixation of partial removable prostheses. Selection of abutment teeth. Requirements for abutment teeth. Types of clasp lines on the upper and lower jaws. The choice of support elements when planning the design of a partial removable prosthesis. Preparation of abutment teeth, determination of denture boundaries. The boundaries of partial removable dentures depending on the topography of dentition defects. Characteristics of the prosthetic bed and prosthetic field. The boundaries of the prosthesis with the included defects of the dentition. Limits of the prosthesis with distally unlimited defects of the dentition. Point, linear, planar fixation of partial removable dentures. Characteristics of groups of dentition defects. Methods of determination and fixation of central occlusion. Methods for determining the height of the bite. Fixation, stabilization, balance of removable prostheses, factors that provide them. Rules for placing teeth in partial removable dentures. Placing teeth on the inflow and artificial gums. The mechanism of connection of artificial teeth with the base of the prosthesis. Checking the design of partial removable dentures.	3H-2, 3H-3, 3H-5, 3H-8, 3H-10, 3H-13, 3H-15, 3H-18, 3H-20, 3H-21, 3H-22, YM-2, YM-3, YM-5, YM-8, YM-13, YM-14, YM-20, YM-22, ΦK-2, ΦK-5, ΦK-24, ΦK-25, ΦK-26, ΦK-30, ΦK-31, 3K-1, 3K-2, 3K-3, 3K-4, 3K-7, 3K-13, AB-3, AB-4, AB-8, AB-12, AB-13, AB-14, AB-20, AB-22, AB-23	Assoc. Prof. Kulinchenko R.V.
L-7	Cast RPD - types of fixing elements, variants of arrangement of arches of	The patient's treatment plan, the choice of fixing elements in the design of the clasp prosthesis.	3H-2, 3H-4, 3H-5,	Assoc. Prof. Kulinchenko R.V.

	<p>cast RPD on the upper and lower jaws. Planning the design of cast RPD. Surveying (parallelometry). Duplication of models. Refractory masses. Casting of frameworks and metal bases. Compression and casting of plastics, polymerization of plastics.</p>	<p>Parallelometry, methods of studying models in parallelometer. The nature of the distribution of masticatory load in various defects of the dentition with the use of locks, telescopic system, beam system, magnetic clamps. functions that should provide fixing elements. Classification of attachments. The choice of the type of fixing element in the clasp prosthesis depending on the clinical picture of the oral cavity. Varieties of clamps of the Ney system and indications for their use, as well as the nature of the redistribution of masticatory load in various defects of the dentition. Passage of boundary lines and rules of planning of clasp elements. The nature of the distribution of masticatory load in various defects of the dentition with the use of locks, telescopic system, beam system, magnetic clamps. Options for the location of arches on the upper and lower jaws. Features of placement of arches on the upper and lower jaws. Parallelometers. Tasks and methods of parallelometry. Free method of parallelometry. The method of determining the average slope of the long axes of the abutment teeth according to Novak. Method of choice. Duplicate models. Technique of duplication of models. Classification of duplicate masses. Modeling of a wax composition of a clasp prosthesis on a refractory model. Casting of clasp prosthesis frames on refractory models. Rules for building a foundry and food system. Methods of melting and casting of metals. Processing of frames of clasp prostheses from packing masses. Design of artificial dentitions and production of clasp denture bases. Technology of making a clasp prosthesis with removal of wax reproduction from the model. Production of clasp prostheses with beam fixation. Repair of clasp prostheses. Hot</p>	<p>3H-8, 3H-10, 3H-13, 3H-20, 3H-21, 3H-22, YM-3, YM-5, YM-7, YM-9, YM-13, YM-14, YM-15, YM-20, YM-21, ΦK-4, ΦK-5, ΦK-6, ΦK-20, ΦK-21, ΦK-23, ΦK-24, ΦK-29, 3K-1, 3K-5, 3K-8, 3K-12, 3K-14, 3K-15, AB-1, AB-2, AB-6, AB-8, AB-10, AB-17, AB-19, AB-21</p>	
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		polymerization plastics for the manufacture of removable dentures. Method of polymerization of plastics.		
L-8	Imposition and correction of RPD. Relining and repair of RPD. Influence of RPD bases on oral tissues. Prosthetic stomatitis. Adaptation to RPD.	Method of imposing PRP. Checking the fit of the staples. Checking the stability of the prosthesis on the upper and lower jaw. Checking the degree of fixation of a partial removable prosthesis on the upper and lower jaw. Isolation of the palatine torus. Checking the central occlusion. Check of occlusal contacts, at grinding of artificial teeth. Phases of adaptation to PRP. Patient recommendations. Prosthesis correction. Rules of correction of PRP. Toxic, side, allergic, traumatic effect of plastic base. Reasons. Clinical manifestations and methods of treatment. Errors and complications in the restoration of defects of the dentition of the PRP. Functional efficiency of PRP. The term of use of the PRP. Influence of removable plate prostheses on oral tissues. Classification, diagnosis. Prosthetic stomatitis. Traumatic prosthetic stomatitis. Toxic stomatitis. Differential diagnosis of isolated ulcers. "Greenhouse effect". Clinic, differential diagnosis, treatment of toxic-chemical and allergic action of PRP bases. Causes and clinical manifestations of allergic action on the basis of PRP. The mechanism of action of an allergic reaction to the mucous membrane of the prosthetic bed. Terms and features of re-treatment of patients who use removable prostheses. Procurement processes for removable dentures. Evaluation of the effectiveness of prosthetics: subjective feelings of the patient, the condition of the tissues of the prosthetic bed and abutment teeth, fixation and stabilization of the prosthesis, the possibility of chewing, restoring the patient's appearance, speech purity, mastication data, masticatory tests. Rules for using removable	3H-1, 3H-3, 3H-5, 3H-6, 3H-10, 3H-12, 3H-13, 3H-15, 3H-16, 3H-19, 3H-21, 3H-22, YM-1, YM-4, YM-7, YM-9, YM-13, YM-15, YM-17, YM-19, YM-20, YM-22, ФК-5, ФК-24, ФК-25, ФК-26, ФК-23, ФК-27, ФК-29, ФК-31, 3K-2, 3K-4, 3K-5, 3K-10, 3K-14, 3K-15, AB-4, AB-9, AB-10, AB-14, AB-19, AB-21, AB-22	Assoc. Prof. Kulinchenko R.V.

		dentures. Methods of relocation of prostheses. Repair of the basis of PRP, indications, contraindications, clinical, laboratory methods.		
P - 1	Examination of patient in clinic of prosthetic dentistry. Clinical and auxiliary diagnostic methods. Clinical diagnosis	Examination of patients in orthopedic dentistry - stages, basic and additional methods of examination, medical documentation Subjective examination stage. Pathological conditions and somatic diseases that are risk factors at the dental office Examination of the temporomandibular joint (basic and additional methods) Chewing muscle examination (basic and additional methods). Examination of the oral mucosa. Mobility and pliability of the mucous membrane, classification by Supli. Examination of teeth and dentitions (basic and additional methods). Classifications of dentition defects according to Kennedy and Bethelmann Examination of periodontal tissues (basic and additional methods) X-ray examination methods in orthopedic dentistry Methods of recording movements of the lower jaw Electromyography Evaluation of occlusal ratios of dentitions. Occlusiography. Electronic analysis of T-Scan occlusion Static and dynamic methods of chewing efficiency assessment Preliminary and final diagnosis. Features of diagnosis in the clinic of orthopedic dentistry. Planning orthopedic treatment and pre-prosthetic training	3H-2, 3H-3, 3H-13, 3H-19 YM-1, YM-2, YM-11, YM-13 ΦK-2, ΦK-3, ΦK-4 ΦK-5, ΦK-6, ΦK-29, ΦK-31, 3K-1, 3K-3, 3K-4, 3K-5, 3K-6, 3K-7, 3K-9, 3K-11, 3K-12, AB-3, AB-6, AB-7, AB-17, AB-20, AB-23	Assoc. Prof. Kulinchenko R.V.
P - 2	Etiology, classifications, methods of replacement of defects of hard tissues of teeth. Indications for prosthetics with artificial crowns. Classifications of crowns. Preparation of teeth for artificial crowns - general rules, techniques, tools. Complications during	Etiology of defects of the crown of the teeth. Defect classifications, Milikevich index. Types of orthopedic structures to replace defects of the coronal part of the teeth, indications Artificial crowns - indications, classifications, comparative characteristics. Materials and technologies for making artificial	3H-1, 3H-5, 3H-7, 3H-9, 3H-11, 3H-13, 3H-14, 3H-19, YM-1, YM-3,	Assoc. Prof. Kulinchenko R.V.

	tooth preparation. Protection of vital teeth during and after preparation.	crowns Preparation of the oral cavity for prosthetics. Requirements for teeth used as a support for fixed orthopedic structures Indications for depulping of abutment teeth. Indications for reinforcement of abutment teeth with pin structures. Tools for tooth preparation for fixed orthopedic structures Rules of preparation of teeth under fixed orthopedic designs, safety measures, methods of control of depth of preparation of hard fabrics Protection of vital teeth during and after preparation. Provisional structures, dentin sealants Complications during and after tooth preparation - causes, consequences, ways to prevent Methods of preparation of teeth for artificial crowns Marginal adaptation of artificial crowns, options for incisal preparation, types of ledges Gum retraction, types, methods, indications.	YM-8, YM-13, YM-19, YM-21, YM-22, ΦK-3, ΦK-5, ΦK-6 ΦK-7, ΦK-9, ΦK-10, ΦK-11, ΦK-12, ΦK-15, ΦK-17, ΦK-18, ΦK-30, 3K-1, 3K-6, 3K-10, 3K-13, 3K-14, AB-4, AB-5, AB-8, AB-10, AB-11, AB-19, AB-22	
P - 3	Inlay, onlay, overlay, pinlay. General characteristics. Classification. Indications. Manufacturing. Materials. Biomechanical principles of functioning.	An inlay is a restoration which lies within the confines of the cusps. These restorations are considered to be more conservative than onlays or crowns because less tooth structure is removed in preparation for the restoration. They are usually used when tooth destruction is less than half the distance between cusp tips. An onlay is a method of tooth restoration, which covers, protects or reinforces one or more cusps. Onlays are methods for restoring teeth in an indirect way. Onlays are often used when teeth present extensive destruction due to caries or to trauma.	3H-1, 3H-5, 3H-8, 3H-10, 3H-12, 3H-13, 3H-17, 3H-18, 3H-20, YM-2, YM-7, YM-10, YM-14, YM-16, YM-21, YM-22, ΦK-4, ΦK-5, ΦK-6, ΦK-21, ΦK-9, ΦK-20, ΦK-21, ΦK-29, 3K-1, 3K-5, 3K-6,	Assoc. Prof. Kulinchenko R.V.

			3K-9, 3K-11, AB-3, AB-5, AB-10, AB-14, AB-17, AB-21, AB-22, AB-23	
P - 4	Clinical and laboratory stages of manufacturing swaged metal and combined crowns	Swaged metal and combined crowns - indications and contraindications, clinical stages of manufacture Swaged metal and combined crowns - laboratory stages of manufacture	3H-1, 3H-2, 3H-4, 3H-5, 3H-11, 3H-12, 3H-14, 3H-17, 3H-19, 3H-21, YM-1, YM-2, YM-7, YM-10, YM-14, YM-16, YM-20, YM-21, YM-22, ΦK-4, ΦK-5, ΦK-6, ΦK-21, ΦK-9, ΦK-21, ΦK-23, ΦK-31, 3K-2, 3K-5, 3K-7, 3K-9, 3K-10, 3K-16, AB-3, AB-5, AB-10, AB-14, AB-17, AB-21, AB-22, AB-23	Assoc. Prof. Kulinchenko R.V.
P - 5	Indications, clinical and laboratory stages of manufacturing cast metal crowns.	Metal alloys for the manufacture of fixed orthopedic structures - classifications, properties, application technologies Technology of casting frames of	3H-3, 3H-5, 3H-6, 3H-7, 3H-19,	Assoc. Prof. Kulinchenko R.V.

		<p>fixed orthopedic structures. Shrinkage of alloys and methods of its compensation Foundry systems - types, rules of construction. Methods of melting and casting of metal alloys Refractory masses - types, composition, properties Full metal crowns - indications and contraindications, clinical stages of manufacture Full metal crowns - laboratory stages of production.</p>	<p>3H-20 YM-1, YM-11, YM-13, YM-19, YM-21, YM-23, ΦK-3, ΦK-6, ΦK-11, ΦK-30, ΦK-31, 3K-2, 3K-9, 3K-13, 3K-14, AB-3, AB-5, AB-10, AB-13, AB-20, AB-22. AB-23</p>	
P - 6	<p>Indications, clinical and laboratory stages of manufacturing combined metal-plastic crowns.</p>	<p>Indications, clinical stages of prosthetics with combined metal-plastic crowns. Metal alloys for the manufacture of fixed orthopedic structures - classifications, properties, application technologies Technology of casting frames of fixed orthopedic structures. Shrinkage of alloys and methods of its compensation Cast systems - types, rules of construction. Methods of melting and casting of metal alloys Refractory masses - types, composition, properties</p>	<p>3H-3, 3H-5, 3H-6, 3H-7, 3H-19, 3H-20 YM-1, YM-11, YM-13, YM-19, YM-21, YM-23, ΦK-3, ΦK-6, ΦK-11, ΦK-30, ΦK-31, 3K-2, 3K-9, 3K-13, 3K-14, AB-3, AB-5, AB-10, AB-13, AB-20, AB-22. AB-23</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>
P - 7	<p>Indications and clinical and laboratory stages of manufacturing metal-ceramic crowns. Materials, manufacturing technology.</p>	<p>Physico-chemical properties of dental ceramics. Technologies of ceramic facing of metal-ceramic constructions. Features of modeling and</p>	<p>3H-1, 3H-2, 3H-5, 3H-8, 3H-13,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

		manufacturing of a metal cap.	3H-20, 3H-21, 3H-22, УМ-7, УМ-9, УМ-10, УМ-11, УМ-21, УМ-22, ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-10, ФК-15 ФК-1 ФК-18, ФК-19, 3К-1, 3К-10, 3К-11, АВ-1, АВ-3, АВ-5, АВ-13, АВ-14, АВ-20, АВ-21, АВ-22, АВ-23	
P - 8	Preparation of teeth for metal-ceramic crowns - general rules, techniques, tools..	Tools for tooth preparation for fixed orthopedic structures Rules of preparation of teeth under fixed orthopedic designs, safety measures, methods of control of depth of preparation of hard fabrics Protection of vital teeth during and after preparation. Provisional structures, dentin sealants Complications during and after tooth preparation - causes, consequences, ways to prevent Methods of preparation of teeth for artificial crowns Marginal adaptation of artificial crowns, options for incisal preparation, types of ledges Gum retraction, types, methods, indications	3H-1, 3H-2, 3H-5, 3H-8, 3H-13, 3H-20, 3H-21, 3H-22, УМ-7, УМ-9, УМ-10, УМ-11, УМ-21, УМ-22, ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-10, ФК-15 ФК-1 ФК-18, ФК-19, 3К-1,	Assoc. Prof. Kulinchenko R.V.

			3K-10, 3K-11, AB-1, AB-3, AB-5, AB-13, AB-14, AB-20, AB-21, AB-22, AB-23	
P-9	Indications for replacement of dentition defects with bridges. Design features and biomechanics of bridges.	Bridge prostheses - indications, classifications, materials and methods of manufacture. Features of preparation of abutment teeth. Comparative characteristics of solid and stamped-brazed structures Biomechanics of bridge prostheses, design features, types of support elements. The relationship of the intermediate part to the alveolar process.	3H-2, 3H-3, 3H-7, 3H-10, 3H-14, 3H-20, YM-7, YM-9, YM-10, YM-11, YM-21, YM-22, YM-23, ΦK-2, ΦK-4, ΦK-5, ΦK-6, ΦK-7, ΦK-8, ΦK-9, ΦK-13, ΦK-14, ΦK-15, ΦK-17, ΦK-18, 3K-1, 3K-10, 3K-11, AB-1, AB-3, AB-5, AB-13, AB-14, AB-20, AB-21, AB-22,	Assoc. Prof. Kulinchenko R.V.
P-10	Indications and clinical and laboratory stages of manufacturing metal-ceramic bridges. Materials, manufacturing technology.	Features of construction of metal-ceramic orthopedic bridge structures. Metal alloys for the manufacture of fixed orthopedic structures - classifications, properties, application technologies Technology of casting frames of fixed orthopedic structures.	3H-1, 3H-4, 3H-6, 3H-8, 3H-12, 3H-13, 3H-14, 3H-19, YM-1,	Assoc. Prof. Kulinchenko R.V.

		<p>Shrinkage of alloys and methods of its compensation</p> <p>Cast systems - types, rules of construction. Methods of melting and casting of metal alloys</p> <p>Refractory masses - types, composition, properties</p>	<p>УМ-2, УМ-7, УМ-13, УМ-15, УМ-21, УМ-22, ФК-3, ФК-4, ФК-5, ФК-6 ФК-7, ФК-9, ФК-10, ФК-11, ФК-12, ФК-15, ФК-17, ФК-18, ФК-30, ЗК-1, ЗК-6, ЗК-10, ЗК-14, АВ-4, АВ-5, АВ-8, АВ-11, АВ-19, АВ-22</p>	
P-11	<p>Indications and clinical and laboratory stages of manufacturing Metal-free fixed structures. Materials, manufacturing technology.</p>	<p>Technologies of manufacturing metal-free orthopedic structures.</p>	<p>ЗН-3, ЗН-7, ЗН-10, ЗН-11, ЗН-14, ЗН-18, УМ-1, УМ-3, УМ-9, УМ-14, УМ-20, УМ-21, УМ-22, УМ-23, ФК-1 ФК-4, ФК-5, ФК-6, ФК-9, ФК-16, ФК-18, ФК-30, ЗК-1, ЗК-6, ЗК-10, ЗК-14, АВ-4,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

			AB-5, AB-10, AB-19, AB-22	
P-12	Provisional (temporary, protective) crowns - indications, types, materials and methods of manufacture. Production of temporary crowns by direct and indirect (laboratory) methods.	Provisional crowns - indications, purpose, types. Materials for the manufacture of temporary crowns Methods of direct manufacture of temporary structures Laboratory method of making temporary crowns Acrylic plastics - composition, properties, phases and modes of polymerization of plastics	3H-3, 3H-7, 3H-10, 3H-11, 3H-14, 3H-18, YM-1, YM-3, YM-9, YM-14, YM-20, YM-21, YM-22, YM-23, ΦK-1 ΦK-4, ΦK-5, ΦK-6, ΦK-9, ΦK-16, ΦK-18, ΦK-30, 3K-1, 3K-6, 3K-10, 3K-14, AB-4, AB-5, AB-10, AB-19, AB-22	Assoc. Prof. Kulinchenko R.V.
P-13	Anesthesia in the clinic of orthopedic dentistry. Local and general complications of injectable anesthesia. Emergencies - clinical manifestations, first aid.	Pain, mechanism of occurrence, ways of carrying out. Theories of toothache. Innervation of the maxillofacial area Types of anesthesia in outpatient dental practice. Indications for local anesthesia in orthopedic dentistry Conductive anesthesia on the upper jaw, methods Conductive anesthesia on the lower jaw, methods Methods of infiltration anesthesia in the oral cavity, indications Anesthesia during the preparation of the front teeth of the upper jaw. Anesthesia during the preparation of the premolars of the upper jaw. Anesthesia during the preparation	3H-3, 3H-5, 3H-6, 3H-7, 3H-19, 3H-20 YM-1, YM-11, YM-13, YM-19, YM-21, YM-23, ΦK-3, ΦK-6, ΦK-11, ΦK-30, ΦK-31, 3K-2, 3K-9, 3K-13, 3K-14,	Assoc. Prof. Kulinchenko R.V.

		<p>of the molars of the upper jaw. Anesthesia during the preparation of the front teeth of the mandible. Anesthesia during the preparation of the premolars of the mandible. Anesthesia during the preparation of the molars of the mandible.</p> <p>Modern local anesthetics - mechanism of action, classification, indications for use General complications of injectable anesthesia - causes, ways to prevent Local complications of injectable anesthesia - causes, ways to prevent Urgent conditions at the dental office - allergic reactions of the immediate type. Clinical picture, first aid Urgent conditions at the dental office - hypertensive crisis, angina pectoris, myocardial infarction. Clinical picture, first aid Emergencies at the dental office - dizziness, collapse. Clinical picture, first aid Urgent conditions at the dental office - an attack of bronchial asthma. Clinical picture, first aid</p>	<p>AB-3, AB-5, AB-10, AB-13, AB-20, AB-22, AB-23</p>	
P-14	<p>Factors that ensure the fixation of fixed prostheses. Materials for temporary and permanent fixation of fixed constructions - composition, physicochemical properties, indications and methods of application.</p>	<p>Factors that ensure the fixation of fixed prostheses. Indications for temporary fixation of fixed structures. Materials for temporary fixation of orthopedic structures. Provisional cements Zinc - phosphate cements - composition, physicochemical properties, indications and methods of application Glass ionomer cements - composition, physicochemical properties, indications and methods of application Composite cements - composition, physicochemical properties, indications and methods of application</p>	<p>3H-3, 3H-5, 3H-6, 3H-7, 3H-19, 3H-20 YM-1, YM-11, YM-13, YM-19, YM-21, YM-23, ΦK-3, ΦK-6, ΦK-11, ΦK-30, ΦK-31, 3K-2, 3K-9, 3K-13, 3K-14, AB-3, AB-5, AB-10, AB-13,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

			AB-20, AB-22. AB-23	
P-15	Examination of a patient with partial tooth loss - basic and additional methods. Changes in masticatory system with partial loss of teeth.	Basic and additional methods of examination of patients with partial tooth loss Structural and functional changes of the dental apparatus with partial tooth loss Anatomical formations of the oral cavity, which are important in removable prosthetics. Flexibility and mobility of the mucous membrane, their consideration in removable prosthetics. Assessment of the condition of alveolar processes in edentulous areas, Elbrecht classification Preparation of the oral cavity for prosthetics with partial removable prostheses (RPD). Requirements for abutment teeth	3H-1, 3H-2, 3H-4, 3H-6, 3H-7, 3H-14, 3H-17, 3H-18, 3H-19, 3H-20, 3H-21, YM-1, YM-3, YM-4, YM-7, YM-8, YM-9, YM-17, YM-21, YM-22, ФК-4, ФК-5, ФК-20, ФК-21, ФК-22, ФК-23, ФК-27, ФК-30, ФК-31, 3K-1, 3K-4, 3K-5, 3K-6, 3K-9, 3K-13, 3K-14, AB-4, AB-8, AB-10, AB-13, AB-18, AB-20, AB-21, AB-22	Assoc. Prof. Kulinchenko R.V.
P-16	Types of removable partial dentures (RPD) and indications for their use. Methods of fixation of RPD. Requirements for abutment teeth. Types of clasp lines.	Constructions of RPD, their constituent parts. Features of masticatory pressure transformation by different types of RPD Partial removable plate prostheses - indications, clinical stages of manufacture Partial removable plate	3H-2, 3H-3, 3H-5, 3H-8, 3H-10, 3H-13, 3H-15, 3H-18, 3H-20,	Assoc. Prof. Kulinchenko R.V.

		<p>prostheses with a metal base -3H-21, indications, clinical stages of3H-22, manufacture YM-2, Clasp prostheses - indications, YM-3, design planning depending on YM-5, clinical conditions. Selection of YM-8, abutment teeth, requirements, YM-13, training YM-14, Checking the design of partial YM-20, removable dentures YM-22, Planning the design of dentures ΦK-2, while maintaining single teeth on ΦK-5, the jaws ΦK-24, RPD fixation planning. Clasp ΦK-25, lines. Factors influencing the ΦK-26, choice of fixing elements in ΦK-30, removable dentures ΦK-31, 3K-1, 3K-2, 3K-3, 3K-4, 3K-7, 3K-13, AB-3, AB-4, AB-8, AB-12, AB-13, AB-14, AB-20, AB-22, AB-23</p>		
P-17	Features of obtaining impressions and gypsum models in the manufacture of RPD. Determining the boundaries of RPD.	Obtaining working imprints for the manufacture of RPD - materials and techniques. Indications for imprints with individual tray.	<p>3H-1, 3H-2, 3H-4, 3H-6, 3H-7, 3H-11, 3H-14, 3H-17, 3H-21, 3H-22, YM-2, YM-4, YM-5, YM-7, YM-11, YM-18, YM-21 ΦK-3, ΦK-4, ΦK-5, ΦK-6, ΦK-20, ΦK-23, 3K-3,</p>	Assoc. Prof. Kulinchenko R.V.

			3K-4, 3K-5, 3K-8, 3K-15, AB-9, AB-13, AB-18, AB-20, AB-21, AB-22, AB-23	
P-18	Manufacturing of wax occlusal rims on wax bases. Determination and fixation of the relations of jaws in groups I, II, III of dentition defects.	Groups of Betelman dentition defects, clinical characteristics Methods for determining and fixing the central ratio of the jaws in the second group of Betelman defects Methods for determining and fixing the central ratio of the jaws in the third group of Betelman defects. Methods for determining the occlusal height. Methods for determining the central ratio of the jaws Method of fixing the central occlusion with occlusal blocks and gypsum blocks. Technology of production of occlusal rollers, requirements to rollers Methods of hot and cold methods of fixing the central ratio using occlusal rollers Errors in determining and fixing the ratio of the jaws	3H-1, 3H-3, 3H-4, 3H-6, 3H-8, 3H-11, 3H-18, 3H-21, 3H-22, YM-2, YM-4, YM-5, YM-7, YM-11, YM-18, YM-21 ФК-4, ФК-5, ФК-6, ФК-21, 3K-2, 3K-3, 3K-5, 3K-9, 3K-14, AB-9, AB-12, AB-21, AB-22	Assoc. Prof. Kulinchenko R.V.
P-19	Arrangement of artificial teeth in RPD.	Artificial teeth for removable dentures - materials, types. Comparative characteristics of porcelain, composite, acrylic teeth. Rules of selection of artificial teeth Methods of artificial teeth in RPD; options for placing teeth in the frontal area. Anatomical landmarks for teeth placement. Occlusal concepts in partial removable prosthetics	3H-1, 3H-5, 3H-7, 3H-13, 3H-15, 3H-20, 3H-21, YM-6, YM-7, YM-13, YM-14, YM-22, ФК-1, ФК-5, ФК-21, ФК-22,	Assoc. Prof. Kulinchenko R.V.

			3K-3, 3K-4, 3K-8, 3K-10, 3K-14, 3K-15 AB-3, AB-6, AB-14, AB-15, AB-21	
P-20	Checking the design of RPD. Technology of manufacturing RPD. Compression and casting of plastics. Thermoplastics.	Technology of compression pressing of plastics. Methods of plastering reproductions of prostheses in the cuvette Technology of foundry pressing of plastics. Equipment, materials. Directed polymerization mode. Plastics for the manufacture of denture bases. Classifications, composition, properties. Types and modes of polymerization Errors when working with plastic, types of porosity	3H-1, 3H-2, 3H-4, 3H-5, 3H-7, 3H-13, 3H-15, 3H-20, 3H-21, 3H-22, YM-1, YM-5, YM-6, YM-7, YM-9, YM-13, YM-14, YM-15, YM-21, YM-22, ΦK-1, ΦK-6, ΦK-20, ΦK-21, ΦK-22, ΦK-23, ΦK-24, ΦK-25, ΦK-26, ΦK-27, 3K-3, 3K-4, 3K-7, 3K-8, 3K-10, 3K-15 AB-3, AB-4, AB-14, AB-21, AB-22	Assoc. Prof. Kulinchenko R.V.
P-21	Imposition of RPD. Correction of RPD. Adaptation to RPD.	Methods of imposition and correction of RPD, recommendations to the patient on prosthesis care. Phases of	3H-1, 3H-4, 3H-7, 3H-13,	Assoc. Prof. Kulinchenko R.V.

		adaptation to removable prostheses according to Courland	3H-20, 3H-21, УМ-1, УМ-7, УМ-9, УМ-13, УМ-14, УМ-21, УМ-22, ФК-4, ФК-5, ФК-24, ФК-25, ФК-27, ЗК-3, ЗК-4, ЗК-8, ЗК-14, ЗК-15 АВ-6, АВ-10, АВ-14, АВ-21	
P-22	Repair and relining of RPD. RPD with elastic lining.	Recommended terms of use of different types of RPD. Indications for prosthesis replacement. Relocation of removable dentures - indications, methods, materials Denture repair (bracket replacement, tooth addition, base repair) - technology. Causes of fracture of bases	3H-1, 3H-2, 3H-4, 3H-7, 3H-13, 3H-20, 3H-21, 3H-22, УМ-1, УМ-5, УМ-9, УМ-13, УМ-14, УМ-21, УМ-22, ФК-5, ФК-24, ФК-25, ФК-26, ЗК-3, ЗК-4, ЗК-7, ЗК-8, ЗК-14 АВ-6, АВ-14, АВ-15, АВ-21, АВ-22	Assoc. Prof. Kulinchenko R.V.
P-23	Indications for replacement of dentition defects with cast RPD. Design features of cast RPD depending on	Planning of fixing elements in clasp prostheses depending on clinical conditions Ney stapler system, indications	3H-2, 3H-4, 3H-5, 3H-8,	Assoc. Prof. Kulinchenko R.V.

	the clinical situation. Selection of abutment teeth.	for use Characteristics of abutment teeth for fixing a clasp prosthesis with a clasp fixation system	3H-10, 3H-13, 3H-20, 3H-21, 3H-22, УМ-3, УМ-5, УМ-7, УМ-9, УМ-13, УМ-14, УМ-15, УМ-20, ФК-4, ФК-5, ФК-6, ФК-20, ФК-21, ФК-23, ФК-24, ФК-29, 3К-1, 3К-5, 3К-14, 3К-15, АВ-2, АВ-6, АВ-8, АВ-10	
P-24	Surveying (Parallelometry). Purpose, tasks, methods of surveying. Diagnostic models. Selection of abutment teeth.	Parallelometry - purpose, tasks, methods Planning of fixing elements in clasp prostheses depending on clinical conditions. Calibration of models	3H-2, 3H-8, 3H-10, 3H-20, 3H-21, УМ-3, УМ-5, УМ-13, УМ-20, ФК-5, ФК-6, ФК-23, ФК-24, ФК-30, 3К-5, 3К-8, 3К-15, АВ-1, АВ-6, АВ-10, АВ-21	Assoc. Prof. Kulinchenko R.V.
P-25	Classification of clasps, indications for use. Attachments, bar and telescopic systems for fixing cast RPD.	The concept of fixation, stabilization, balance of removable dentures and the factors that provide them Staples - classifications, designs, manufacturing methods. Factors	3H-1, 3H-4, 3H-6, 3H-7, 3H-12, 3H-20,	Assoc. Prof. Kulinchenko R.V.

		determining the choice of staple type Attachments - classifications, constructions, indications Bar - types, designs, indications Telescopic systems - types, designs, indications Ney clasps system, indications for use	YM-1, YM-3, YM-13, YM-16, YM-21, YM-22, ΦK-4, ΦK-5, ΦK-22, ΦK-23, ΦK-24, 3K-2, 3K-6, 3K-13, AB-3, AB-8, AB-9, AB-13	
P-26	Technological stages of manufacturing cast RPD. Preparing the model for duplication. Duplicate masses.	Preparation of models for duplication. Duplicate masses - types, composition, application technology. Production of refractory models Modeling of wax reproduction of the clasp prosthesis frame. Types of cast system, construction rules	3H-2, 3H-3, 3H-5, 3H-11, 3H-14, 3H-17, YM-7, YM-11, YM-14, ΦK-23, ΦK-31, 3K-3, 3K-9, 3K-10, 3K-13, 3K-16, AB-3, AB-7, AB-10	Assoc. Prof. Kulinchenko R.V.
P-27	Wax-up fabrication of cast RPD framework. Methods of compensation of alloy shrinkage during casting. Molding (investment) masses. Metal alloys for the manufacture of cast RPD. Casting technology of RPD frameworks. Errors in casting.	Classification of molding compounds, composition, properties, indications for use Metal alloys for the manufacture of clasp prostheses and prostheses with a metal base. Cobalt-chromium alloy - composition, technological and physicochemical properties, temperature regime Shrinkage of alloy during casting, types. Methods of compensation of alloy shrinkage during casting of frames of removable and non-removable structures Casting technology in dentistry. Methods of melting and casting of metals. Foundry systems	3H-1, 3H-2, 3H-6, 3H-7, 3H-8, 3H-14, 3H-15, 3H-20, 3H-21, YM-3, YM-5, YM-7, YM-13, YM-14, YM-15, ΦK-1, ΦK-3, ΦK-5, ΦK-15,	Assoc. Prof. Kulinchenko R.V.

		types, rules of construction	ФК-17, ЗК-2, ЗК-3, ЗК-4, ЗК-5, ЗК-8, ЗК-13, ЗК-14, АВ-1, АВ-5, АВ-7, АВ-11, АВ-13, АВ-14	
P-28	Checking the design of cast RPD. Imposition of cast RPD.	Methods of imposition and correction of cast RPD, recommendations to the patient on prosthesis care. Phases of adaptation to removable dentures.	ЗН-1, ЗН-3, ЗН-5, ЗН-6, ЗН-10, ЗН-12, ЗН-13, ЗН-15, ЗН-16, ЗН-19, ЗН-21, ЗН-22, УМ-1, УМ-4, УМ-7, УМ-9, УМ-13, УМ-15, УМ-17, УМ-19, УМ-20, УМ-22, ФК-5, ФК-24, ФК-25, ФК-26, ФК-23, ФК-27, ФК-29, ФК-31, ЗК-2, ЗК-4, ЗК-5, ЗК-10, ЗК-14, ЗК-15, АВ-4, АВ-9, АВ-10, АВ-14, АВ-19, АВ-21,	Assoc. Prof. Kulinchenko R.V.

			AB-22	
P-29	<p>Errors and complications in prosthetics with RPD.</p> <p>Influence of bases of RPD on the mucous membrane of oral cavity. Prosthetic stomatitis - classification, etiology, diagnosis, treatment.</p>	<p>Factors of influence of prosthesis bases and prosthetic materials on prosthetic bed tissues.</p> <p>Classifications of prosthetic stomatitis</p> <p>Traumatic prosthetic stomatitis. Etiology, clinical manifestations, differential diagnosis and treatment</p> <p>Toxic prosthetic stomatitis. Etiology, clinical manifestations, differential diagnosis and treatment</p> <p>Allergic prosthetic stomatitis. Etiology, clinical manifestations, differential diagnosis and treatment</p> <p>Additional laboratory methods of examination of patients with prosthetic stomatitis</p> <p>Errors at the stage of fixing the ratio of the jaws and determining the occlusal height</p> <p>Errors in obtaining prints</p> <p>Errors at the stage of manufacturing a plastic base</p> <p>Errors in the examination of patients and planning the design of RPD</p> <p>Errors at the stage of casting prosthesis frames</p> <p>Errors in the imposition and correction of prostheses</p>	<p>3H-1, 3H-3, 3H-5, 3H-6, 3H-10, 3H-12, 3H-13, 3H-15, 3H-16, 3H-19, 3H-21, 3H-22, YM-1, YM-4, YM-7, YM-9, YM-13, YM-15, YM-17, YM-19, YM-20, YM-22, ФК-5, ФК-24, ФК-25, ФК-26, ФК-23, ФК-27, ФК-29, ФК-31, 3K-2, 3K-4, 3K-5, 3K-10, 3K-14, 3K-15, AB-4, AB-9, AB-10, AB-14, AB-19, AB-21, AB-22</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>
S-1	<p>Functional anatomy and biomechanics of the dental apparatus. Clinical analysis of occlusion, its significance for the design of dentures.</p>	<p>Functional anatomy of the masticatory muscles. Components of the masticatory system and their functional interaction. The main muscles involved in chewing.</p> <p>Temporomandibular joint, functional anatomy. Chewing in the physiological norm. Occlusion is the simultaneous simultaneous closing of a group of teeth or dentitions over a period of time</p>	<p>3H-1, 3H-5, 3H-8, 3H-10, 3H-12, 3H-13, 3H-17, 3H-18, 3H-20, YM-2, YM-7,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

		<p>with contraction of the masticatory muscles and the corresponding position of the elements of the temporomandibular joint. Occlusion factors. Spee and Wilson curves. Occlusal plane, definition. Central ratio. Movements of the lower jaw in the sagittal, horizontal, frontal planes. Functional movements (chewing). Bruxism. Bilateral balanced occlusion (group function). Giza chewing phases.</p> <p>Types of occlusion: central; front; lateral left; lateral rights; back. Each is characterized by dental, muscular and articular features. Signs of central physiological occlusion. Methods for determining central occlusion: functional, instrumental.</p> <p>Sagittal movements of the lower jaw: sagittal articular path, angle of the sagittal articular path, sagittal incisal path, angle of the sagittal incisal path. Transverse movements of the lower jaw: Bennett's movement, Bennett's angle, transverse incisal path, Gothic angle. Hanau Articulation Five, Components. Vertical movements of the lower jaw. Bonville's laws.</p>	<p>YM-10, YM-14, YM-16, YM-21, YM-22, ФК-4, ФК-5, ФК-6, ФК-21, ФК-9, ФК-20, ФК-21, ФК-29, ЗК-1, ЗК-5, ЗК-6, ЗК-9, ЗК-20, ЗК-21, АВ-3, АВ-5, АВ-10, АВ-14, АВ-17, АВ-21, АВ-22, АВ-23</p>	
S-2	Articulators - the purpose of application, classifications, design features, methods of adjustment. Basics of working with the articulator.	<p>Classification of articulators. Non-adjustable articulators. Articulators that are partially adjustable. Fully adjustable articulators. Diagnostic models. Obtaining fingerprints for diagnostic models. Choice of articulator for studying diagnostic models. Facial arches. Kinematic facial arches. Structure, principles of functioning of facial arches. Articulators - Arkon and Nonarkon. Registration of the central ratio. Transfer the position of the CA to the articulator. Features of fully adjustable, semi-adjustable, non-adjustable articulators.</p>	<p>ЗН-1, ЗН-2, ЗН-3, ЗН-5, ЗН-7, ЗН-8, ЗН-13, ЗН-14, ЗН-20, ЗН-21, УМ-1, УМ-2, УМ-5, УМ-7, УМ-14, УМ-20, УМ-21, ФК-1, ФК-2, ФК-3, ФК-4, ФК-5, ФК-23,</p>	Assoc. Prof. Kulinchenko R.V.

			3K-1, 3K-2, 3K-4, 3K-5, 3K-23, AB-4, AB-8, AB-9, AB-13, AB-14, AB-15, AB-20	
S-3	Modern anesthetics, their composition, pharmacological properties, recommendations for use.	Classification of anesthetics. Requirements for anesthetics. Mechanism of action of local anesthetics. Principles of dosing of local anesthetics. Contraindications to the use of anesthetics with vasoconstrictors. Mechanism of action of local anesthetics. Local anesthetics. Anesthetics that belong to the group of esters. Anesthetics that belong to the group of amides. Mechanism of action of local anesthetics. Anesthetic solutions, concentrations, composition, features. Vasoconstrictors, their properties, doses, indications for use. Mechanisms of local anesthesia (physicochemical, receptor). Short-acting anesthetics (chloroethyl, pharmaceutical, pyromecaine, anesthesia), short-acting anesthetics (novocaine, trimecaine), medium-duration anesthetics (prilocaine, lidocaine, mepivacaine, articaine), long-acting (bupivacaine, ethidocaine). Premedication. Medicinal action of	3H-1, 3H-2, 3H-4, 3H-6, 3H-8, 3H-13, 3H-14, 3H-18, 3H-19, 3H-20, 3H-21, YM-1, YM-5, YM-13, YM-21, YM-22, YM-23, ΦK-1, ΦK-2, ΦK-3, ΦK-4, ΦK-5, ΦK-11, ΦK-27, ΦK-29, 3K-1, 3K-3, 3K-6, 3K-7, 3K-12, 3K-13, 3K-14, AB-3, AB-5, AB-8, AB-10, AB-11, AB-21, AB-22	Assoc. Prof. Kulinchenko R.V.
S-4	Modern metal alloys used for the manufacture of fixed cast prostheses, their characteristics, application technology.	Metals, their structure, basic properties. Atoms and ions, atomic bond. Chemical properties of metals. A number of stresses, allotropy. Crystal structure of	3H-1, 3H-2, 3H-6, 3H-7, 3H-8,	Assoc. Prof. Kulinchenko R.V.

		<p>metals. How the structure of the metal is formed during crystallization. Types of corrosion. Ways to combat corrosion. Shrinkage, shrinkage shells, ways to eliminate them. Heat treatment of orthopedic structures, its purpose. Classification of metal alloys used in orthopedic dentistry for the manufacture of cast fixed prostheses. Basic requirements for metal alloys used in the clinic of orthopedic dentistry. Alloys based on precious metals (gold, gold-palladium, silver-palladium). Characteristics, physical and mechanical properties, gold samples for orthopedic structures. Alloys based on base metals (cobalt-chromium alloys, chromium-nickel, titanium alloys, auxiliary alloys of aluminum and bronze for temporary use, tin-based alloys). Chromium-cobalt alloys, alloyed elements, physical and mechanical properties. Chromium-nickel alloys, characteristics, properties, alloyed elements. Marking of stainless steels. Titanium alloys, alloyed elements, physical and mechanical properties, application in dentistry. Application of nickel titanium alloys. The process of processing metal alloys in the manufacture of prostheses.</p>	<p>3H-14, 3H-15, 3H-20, 3H-21, YM-3, YM-5, YM-7, YM-13, YM-14, YM-15, ΦK-1, ΦK-3, ΦK-5, ΦK-15, ΦK-17, 3K-2, 3K-3, 3K-4, 3K-5, 3K-8, 3K-13, 3K-14, AB-1, AB-5, AB-7, AB-11, AB-13, AB-14</p>	
S-5	Comparative characteristics of modern facing materials for the manufacture of fixed dentures	<p>Classification of facing materials for the manufacture of fixed dentures. Characteristics of components of porcelain masses (kaolin, feldspar, quartz, dyes). Basic properties of dental porcelain (physical properties, optical properties, strength). Preparation of porcelain mass (liqueur molding, hot pressing, milling technology). Pros and cons. Indications for use. Types of dental porcelain (fusible, medium fusible, refractory), purpose. The composition of the porcelain mass: layers of mass. Sitali. Physico-mechanical properties. Porcelain masses for metal-ceramic constructions. Porcelain masses for the manufacture of all-ceramic</p>	<p>3H-1, 3H-3, 3H-7, 3H-14, 3H-16, 3H-17, 3H-18, 3H-19, 3H-20, YM-2, YM-3, YM-7, YM-13, YM-14, YM-15, ΦK-1, ΦK-2, ΦK-3, ΦK-5, 3K-1,</p>	Assoc. Prof. Kulinchenko R.V.

		structures. Classification of polymers; by origin (natural, synthetic), by nature (organic, elemental, inorganic), by the form of molecules (linear, "stitched", "grafted", by purpose (basic: basic, elastic, acrylic, composite, facing polymers, restorative polymers) Facing polymers for fixed prostheses, requirements for physicochemical properties, polymerization, packaging methods, polymeric materials for temporary fixed prostheses, manufacturing methods, materials, composite polymers, their properties, classification of composite polymers: by filling, weight percent composition, particle size, polymerization method, release form.	3K-2, 3K-3, 3K-5, 3K-7, 3K-8, 3K-10, AB-1, AB-2, AB-3, AB-5, AB-10, AB-13, AB-15	
S-6	Materials and technologies for the manufacture of metal-free constructions of dentures.	Ceramic materials used in orthopedic dentistry. Positive and negative properties of dental porcelain. Its main properties. Porcelain masses, their composition and properties. Purpose of materials that are part of porcelain. Separation of porcelain masses by purpose. Technology of their application. Clinical and laboratory stages of production of crown tabs by direct and indirect method. Technologies for making tabs and crowns by CAD / CAM method. The method of sintering in a vacuum furnace and the method of pressing for the manufacture of metal-free fixed structures. The use of zirconium oxide. Zirconium oxide is used in the manufacture of: single crowns; bridges; veneers; used in prosthetics on implants. Production of especially exact collapsible plaster models. Plastering of plaster models in an articulator. Production of a frame of a framework from zirconium oxide. Making dentures by sintering on platinum foil or on a refractory model. Production of dentures by slip casting.	3H-1, 3H-3, 3H-7, 3H-14, 3H-16, 3H-17, 3H-18, 3H-19, 3H-20, YM-2, YM-3, YM-7, YM-13, YM-14, YM-15, ФK-1, ФK-2, ФK-3, ФK-5, 3K-1, 3K-2, 3K-3, 3K-5, 3K-7, 3K-8, 3K-10, AB-1, AB-2, AB-3, AB-5, AB-10, AB-13, AB-15	Assoc. Prof. Kulinchenko R.V.
S-7	Features of construction of the pontic of bridge	Bridge prostheses. Design features of bridges. Classification of	3H-1, 3H-3,	Assoc. Prof. Kulinchenko R.V.

	<p>prostheses depending on the shape and atrophy of the alveolar process, size and length of the defect.</p>	<p>bridges: by method of manufacture, by nature of fixation, by material from which they are made, by design, by ratio of intermediate part to mucous membrane of alveolar process or part, by placement of abutment teeth, by design of prosthesis support part, by material of intermediate prosthesis part. Indications for use. Biomechanics of bridges. Basic principles of designing bridges. Production of an intermediate part: modeling of a framework by wax compositions. Types of intermediate part: washing, saddle-shaped, tangential. Replacement of wax reproduction of the intermediate part of the bridge prosthesis by casting. Installation of gutter forming pins and creation of gutter system. Technology of making a solid bridge prosthesis from an alloy of base metal on a refractory model. Bridge prostheses with divergence and convergence of abutment teeth. Design of bridges using implants.</p>	<p>3H-4, 3H-5, 3H-7, 3H-8, 3H-9, 3H-14, YM-2, YM-3, YM-4, YM-7, YM-8, YM-14, ФК-4, ФК-5, ФК-6, ФК-15, ФК-18, ФК-21, 3K-1, 3K-2, 3K-3, 3K-4, 3K-6, 3K-8, 3K-14, AB-3, AB-6, AB-7, AB-8, AB-11, AB-19, AB-21</p>	
S-8	<p>Changes in masticatory system that occur due to partial loss of teeth. Popov-Godon syndrome. Classifications.</p>	<p>Classification of dentition defects. Deformation of the dentition as a result of partial loss of teeth, symptoms. Causes of tooth loss. Clinic, pathogenesis, classification of dentition deformities and occlusion in case of partial tooth loss. Functional overload. Pathological occlusion. Types of traumatic occlusion. The mechanism of traumatic occlusion. Deformations of the occlusal surface of the dentition. Articulatory balance. Changes in the temporomandibular joints. Functional overload of the temporomandibular joint. Differential diagnosis of dentition deformations.</p>	<p>3H-1, 3H-2, 3H-3, 3H-4, 3H-6, 3H-7, 3H-8, 3H-11, 3H-14, 3H-17, 3H-18, 3H-21, 3H-22, YM-2, YM-3, YM-4, YM-5, YM-6, YM-7, YM-11, YM-14, YM-15, YM-18, YM-21</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

			ФК-3, ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-17, ФК-21, ФК-22, ЗК-2, ЗК-3, ЗК-4, ЗК-5, ЗК-8, ЗК-9, ЗК-10, ЗК-14, ЗК-15, АВ-5, АВ-9, АВ-12, АВ-13, АВ-18, ФВ-20, АВ-21, АВ-22, АВ-23	
S-9	Methods of elimination of dental-alveolar deformities at partial loss of teeth.	Substantiation of tactics of treatment of patients with this pathology. Clinical forms of vertical movement of teeth. Popov's phenomenon. Godon's phenomenon. The Popov-Godon phenomenon. Methods of elimination of occlusal disorders (preventive purpose, therapeutic measures). Method of grinding hard fabrics. Deoocclusion method. Methods of orthopedic treatment of dentition deformities. Hardware and surgical method. Surgical method.	ЗН-1, ЗН-2, ЗН-3, ЗН-4, ЗН-6, ЗН-7, ЗН-8, ЗН-11, ЗН-14, ЗН-17, ЗН-18, ЗН-21, ЗН-22, УМ-2, УМ-3, УМ-4, УМ-5, УМ-6, УМ-7, УМ-11, УМ-14, УМ-15, УМ-18, УМ-21 ФК-3, ФК-4, ФК-5, ФК-6, ФК-7,	Assoc. Prof. Kulinchenko R.V.

			ФК-9, ФК-17, ФК-21, ФК-22, ЗК-2, ЗК-3, ЗК-4, ЗК-5, ЗК-8, ЗК-9, ЗК-10, ЗК-14, ЗК-15, АВ-5, АВ-9, АВ-12, АВ-13, АВ-18, ФВ-20, АВ-21, АВ-22, АВ-23	
S-10	Comparative characteristics of compression and casting methods of plastic pressing in the manufacture of removable dentures.	Classification of dental plastics by technological properties and their purpose. Polymerization process, stages of plastic maturation. The role of initiators, inhibitors, catalysts and plasticizers in the polymerization process. Methods of factory production of polymer powder. Basic requirements for materials used for the manufacture of plastic dental structures. Acrylic plastics, their composition, basic physical and mechanical properties. Advantages and disadvantages of acrylic plastics used in orthopedic dentistry. Basic plastics. Technology of application of acrylic plastics, changes of their properties are possible. Preparation of plastic dough. Molding (pressing and casting).	ЗН-1, ЗН-2, ЗН-4, ЗН-5, ЗН-7, ЗН-13, ЗН-15, ЗН-20, ЗН-21, ЗН-22, УМ-1, УМ-5, УМ-6, УМ-7, УМ-9, УМ-13, УМ-14, УМ-15, УМ-21, УМ-22, ФК-4, Temperature regime of polymerization of the monomer-polymer mixture. Consequences of violation of the temperature regime of polymerization. Injection molded polymers, physical and mechanical properties. Requirements when working with molded polymers. Changes that occur in the structure of the plastic in violation of the polymerization regime. Causes of polymerization shrinkage.	Assoc. Prof. Kulinchenko R.V.

			3K-8, 3K-10, 3K-14, 3K-15 AB-3, AB-4, AB-6, AB-10, AB-14, AB-15, AB-21, AB-22	
S-11	Modern materials for the manufacture of bases for removable dentures. Thermoplastics, their properties and indications for use.	Polymers, their main properties. Medical and technical properties of plastics used in dentures. Types of geometric structure of polymer molecules. Their influence on the physical and mechanical properties of plastics. Crosslinking agents, their purpose. "Polymerization" and "polycondensation", what is the difference between them. Classification of polymers by type of binder. Separation of dental plastics by their chemical structure. Plastics for denture bases, requirements for them. Technology of application of basic plastics. Specific requirements for basic materials. Stages of manufacturing plastic removable orthopedic structures. Conditions under which plasticization of plastic takes place. Changes that occur in the structure of the plastic in violation of the polymerization regime. Causes of internal stress in a plastic product. Representatives of basic acrylic plastics of domestic and foreign manufacturers. Elastic base polymers. Representatives of domestic and foreign manufacturers. Advantages and disadvantages, indications and requirements for use. Requirements for elastic removable basic prostheses.	3H-1, 3H-2, 3H-4, 3H-5, 3H-7, 3H-13, 3H-15, 3H-20, 3H-21, 3H-22, YM-1, YM-5, YM-6, YM-7, YM-9, YM-13, YM-14, YM-15, YM-21, YM-22, ΦK-4, ΦK-5, ΦK-6, ΦK-21, ΦK-22, ΦK-23, ΦK-24, ΦK-25, ΦK-26, ΦK-27, 3K-3, 3K-4, 3K-6, 3K-7, 3K-8, 3K-10, 3K-14, 3K-15 AB-3, AB-4, AB-6, AB-10, AB-14, AB-15,	Assoc. Prof. Kulinchenko R.V.

			AB-21, AB-22	
S-12	Comparative characteristics of different methods of fixation of partial removable dentures, indications for their use.	The choice of fixing elements in the design of the clasp prosthesis. Clampless systems for fixing arched prostheses: fixation with locks, fixation with telescopic systems, beam fixation system. Stabilization and balance of the clasp prosthesis. Clinical and laboratory stages of making cast RPD.	3H-1, 3H-4, 3H-6, 3H-7, 3H-8, 3H-10, 3H-12, 3H-13, 3H-20, 3H-21, 3H-22, YM-1, YM-3, YM-4, YM-7, YM-10, YM-12, YM-13, YM-16, YM-21, YM-22, ΦK-4, ΦK-5, ΦK-21, ΦK-22, ΦK-23, ΦK-24, ΦK-25, 3K-2, 3K-6, 3K-8, 3K-13, 3K-14, AB-3, AB-4, AB-8, AB-9, AB-13, AB-14, AB-15, AB-16, AB-20, AB-22	Assoc. Prof. Kulinchenko R.V.
S-13	Types of clasp, attachment, bar, telescopic fixing systems.	Attachments, mechanical devices that consist of two main parts - the patrix (inner) and the matrix (outer), the connection of which provides fixation and stabilization of the removable prosthesis. Telescopic crowns, a system of two crowns, one of which (inner primary, or patrix) is cemented on the prepared abutment tooth, the second (outer - secondary, or	3H-1, 3H-4, 3H-6, 3H-7, 3H-8, 3H-10, 3H-12, 3H-13, 3H-20, 3H-21, 3H-22,	Assoc. Prof. Kulinchenko R.V.

		<p>matrix) is in the frame of the removable part of the prosthesis. Classifications of lock fastenings: on a location; depending on the amount of mobility that is allowed between the components of the attachment; by the design of the attachment; by the functions they perform; by method of manufacture; by the method of fixation; by the size of the attachment. Beam attachments :. The matrix of beam locks is located between the abutment crowns, on the root caps between the roots of the abutment teeth or directly on the implants. The matrix is located in the removable part of the prosthesis.</p>	<p>YM-1, YM-3, YM-4, YM-7, YM-10, YM-12, YM-13, YM-16, YM-21, YM-22, ФК-4, ФК-5, ФК-21, ФК-22, ФК-23, ФК-24, ФК-25, ЗК-2, ЗК-6, ЗК-8, ЗК-13, ЗК-14, АВ-3, АВ-4, АВ-8, АВ-9, АВ-13, АВ-14, АВ-15, АВ-16, АВ-20, АВ-22</p>	
S-14	Features of manufacturing of cast RPD with fixing on attachments, bars and telescopic systems.	<p>Design features of cast RPD. The way of prosthesis insertion. The way of removal of the prosthesis. Fixation, stabilization, balance of the prosthesis. Clasp line. Linear fixation. Plane fixation. Clamps, placement of the chamber system in the clasp prosthesis. Features of placement of arches on the upper and lower jaws. Parallelometers. Tasks and methods of paralleometry. Preparation of gypsum models for duplication. Technique of duplication of models. Modeling of a wax composition of a clasp prosthesis on a refractory model. Casting of clasp prosthesis frames on refractory models. Design of artificial dentitions and production of clasp denture bases. Technology of making a clasp prosthesis with removal of wax reproduction from the model. Production of cast RPD</p>	<p>ЗН-5, ЗН-6, ЗН-8, ЗН-9, ЗН-12, ЗН-13, ЗН-14, ЗН-19, ЗН-20, ЗН-21, ЗН-22, УМ-2, УМ-3, УМ-4, УМ-6, УМ-7, УМ-10, УМ-13, УМ-14, УМ-21, УМ-22, ФК-4, ФК-5, ФК-6,</p>	<p>Assoc. Prof. Kulinchenko R.V.</p>

		with bar fixation.	ФК-20, ФК-21, ФК-22, ФК-23, ФК-24, ФК-25, ФК-26, ЗК-2, ЗК-3, ЗК-5, ЗК-4, ЗК-6, ЗК-8, ЗК-12, ЗК-13, ЗК-14, АВ-1, АВ-4, АВ-6, АВ-7, АВ-9, АВ-10, АВ-21, АВ-22, АВ-23	
S-15	Indications, clinical and technological stages of manufacturing overdentures dentures and removable dentures with a two-layer base.	Special preparation of the oral cavity for prosthetics. The use of tooth roots in the preparation of the oral cavity for prosthetics with removable dentures. Variants of the relationship between the root and the prosthesis: the root is ground to the gums, a telescopic system, a button - a patrix, a matrix, a beam system, magnetic elements, the root is ground below the level of the gums. Indications and contraindications to the use of a prosthetic prosthesis. Requirements for the roots of the teeth used. Clinical and laboratory stages of manufacturing a cover prosthesis. Clinical and laboratory stages of prosthesis manufacturing with a two-layer base. Indications and contraindications. Materials for making an elastic substrate. Technology of making prosthetic bases with a soft lining.	ЗН-2, ЗН-3, ЗН-4, ЗН-5, ЗН-7, ЗН-8, ЗН-11, ЗН-14, ЗН-18, ЗН-20, ЗН-21, ЗН-22, УМ-1, УМ-2, УМ-4, УМ-6, УМ-9, УМ-10, УМ-14, УМ-15, УМ-22, УМ-23, ФК-3, ФК-5, ФК-6, ФК-20, ФК-21, ФК-22, ФК-23, ФК-24, ФК-25,	Assoc. Prof. Kulinchenko R.V.

			ФК-26, ФК-27, ЗК-3, ЗК-4, ЗК-5, ЗК-8, ЗК-10, ЗК-12, ЗК-15 АБ-1, АБ-2, АБ-6, АБ-13, АБ-14, АБ-15, АБ-18, АБ-20, АБ-21, АБ-22, АБ-23	
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Organization of practical classes:

-preparatory stage (20 min.) Substantiation by the teacher of the importance of the topic of the lesson for further study of the discipline and professional activity of the doctor in order to form motivation and purposeful educational activity. Introducing students to specific goals and lesson plan. Carrying out standardized control of the initial level of student training. Discussion and answers to students' questions.

- main stage (40 min.) Students perform practical skills in the discipline of propaedeutics of orthopedic dentistry (algorithm for examining a patient on a phantom, kneading impression materials, selection of impression spoons, taking impressions, casting models of jaws, fixing models in the articulator, acquiring the basics of dissection of phantom teeth).

-final stage (30 minutes) Conducting standardized final control using individual test tasks in the MISA learning environment, and questions, analysis of results. Evaluation by the teacher of the current activity of the student during the lesson, analysis of student performance, announcement of grades and entering them in paper and electronic versions of the journal of attendance and student performance. The head of the group makes assessments in the statement of performance and attendance of students, followed by certification by the teacher. Informing students about the topic of the next lesson and methodological measures to prepare for it.

Practical classes and lectures are provided with appropriate methodological and illustrative materials. Classes are conducted using test tasks, situational control tasks, oral answers, demonstration materials, phantoms of teeth, phantoms of the patient's head. Lectures are conducted with the obligatory multimedia accompaniment, which demonstrates modern illustrative material in accordance with the topic of the lecture, and discussion with the audience.

8. Verification of learning outcomes

Current control

is carried out during training sessions and aims to check the assimilation of educational material by students. Forms of assessment of current educational activities include control of theoretical and practical training.

When assessing the mastery of each topic for the current academic activity, the student is given a score of 4 (excellent, good, satisfactory, unsatisfactory), taking into account all types of work provided by the program of the discipline. The student must receive a grade from each topic for further conversion of grades into points on a multi-point (200-point) scale.

The grade "excellent" is given in the case when the student knows the program in full, illustrating the answers with various examples; gives comprehensively accurate and clear answers without any leading questions; spreads the material without errors and inaccuracies; freely solves problems and performs practical tasks of varying complexity;

A grade of "good" is given when the student knows the whole program and understands it well, answers the questions correctly, consistently and systematically, but they are not exhaustive, although the student answers additional questions without errors; solves all problems and performs practical tasks experiencing difficulties only in the most difficult cases;

The grade "satisfactory" is given to the student on the basis of his knowledge of the whole volume of the program on the subject and a satisfactory level of understanding of it. The student is able to solve modified problems with the help of leading questions; solves problems and performs practical skills, experiencing difficulties in simple cases, is not able to systematically answer the answer, but answers direct questions correctly.

The grade "unsatisfactory" is given in cases when the student's knowledge and skills do not meet the requirements of "satisfactory" assessment.

Learning outcome code	Code type classes	Method of verifying learning outcomes	Enrollment criteria
3H-2, 3H-3, 3H-13, 3H-19 YM-1, YM-2, YM-11, YM-13 ФК-2, ФК-3, ФК-4 ФК-5, ФК-6,ФК-29,ФК-31, 3K-1, 3K-3, 3K-4, 3K-5, 3K-6,3K-7,3K-9,3K-11,3K-12, AB-3, AB-6, AB-7, AB-17, AB-20, AB-23	P-1	<i>Individual test task</i> <i>Conduct a phantom examination of the human head x partial loss of teeth</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "credited" Not fulfilled = "not credited"
3H-1, 3H-5, 3H-8,3H-10, 3H-12,3H-13,3H-17, 3H-18,3H-20, YM-2, YM-7, YM-10, YM-14, YM-16,YM-21,YM-22, ФК-4, ФК-5, ФК-6, ФК-21, ФК-9,ФК-20,ФК-21, ФК-29, 3K-1, 3K-5,3K-6,3K-9, 3K-11, AB-3, AB-5, AB-10, AB-14, AB-17, AB-21, AB-22, AB-23	P-2	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-1, 3H-2, 3H-4,3H-5, 3H-11,3H-12,3H-14, 3H-17,3H-19,3H-21, YM-1,YM-2, YM-7, YM-	P-3	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent

10, УМ-14, УМ-16, УМ-20, УМ-21, УМ-22, ФК-4, ФК-5, ФК-6, ФК-21, ФК-9, ФК-21, ФК-23, ФК- 31, ЗК-2, ЗК-5, ЗК-7, ЗК-9, ЗК-10, ЗК-16, АВ-3, АВ-5, АВ-10, АВ- 14, АВ-17, АВ-21, АВ-22, АВ-23			
ЗН-3, ЗН-5, ЗН-6, ЗН-7, ЗН-19, ЗН-20 УМ-1, УМ-11, УМ-13, УМ-19, УМ-21, УМ-23, ФК-3, ФК-6, ФК-11, ФК- 30, ФК-31, ЗК-2, ЗК-9, ЗК-13, ЗК-14, АВ-3, АВ-5, АВ-10, АВ-13, АВ-20, АВ-22, АВ-23	P-4	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
ЗН-1, ЗН-5, ЗН-7, ЗН-9, ЗН-11, ЗН-13, ЗН-14, ЗН-19, УМ-1, УМ-3, УМ-8, УМ-13, УМ-19, УМ-21, УМ-22, ФК-3, ФК-5, ФК-6 ФК-7, ФК-9, ФК-10, ФК-11, ФК-12, ФК-15, ФК-17, ФК-18, ФК-30, ЗК-1, ЗК-6, ЗК-10, ЗК-13, ЗК-14, АВ-4, АВ-5, АВ-8, АВ-10, АВ-11, АВ-19, АВ-22	P-5	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
ЗН-1, ЗН-5, ЗН-7, ЗН-9, ЗН-10, ЗН-13, ЗН-14, ЗН-19, УМ-2, УМ-3, УМ-8, УМ-14, УМ-18, УМ-21, УМ-22, ФК-2, ФК-4, ФК-5, ФК-6 ФК-7, ФК-8, ФК-9, ФК- 10, ФК-11, ФК-12, ФК-13, ФК-14, ФК- 18, ФК-19, ЗК-1, ЗК-7, ЗК-10, ЗК-12, ЗК-14, АВ-4, АВ-6, АВ-10, АВ- 18, АВ-22	P-6	<i>Individual test task</i> <i>Prepare phantom teeth for different types of artificial crowns</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "credited" Not fulfilled = "not credited"
ЗН-3, ЗН-7, ЗН-10, ЗН-11, ЗН-14, ЗН-18, УМ-1, УМ-3, УМ-9, УМ-14, УМ-20, УМ-21, УМ-22, УМ-23, ФК-1, ФК-4, ФК-5, ФК-6, ФК-9, ФК-16, ФК-18, ФК-30,	P-7	<i>Individual test task</i> <i>Make a temporary crown by the direct method</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "credited" Not fulfilled = "not credited"

3K-1, 3K-6, 3K-10, 3K-14, AB-4, AB-5, AB-10, AB- 19, AB-22			
3H-2, 3H-13, 3H-15, 3H-22, УМ-1, УМ-3, УМ-19, УМ-21, УМ-22, ФК-1, ФК-4, ФК-5, ФК-6 ФК-8, ФК-9, ФК-11, ФК-13, ФК-18, ФК-19, 3K-1, 3K-6, 3K-10, 3K-14, AB-4, AB-6, AB-8, AB-22, AB-23	P-8	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-1, 3H-5, 3H-7, 3H-9, 3H-11, 3H-13, 3H-14, 3H-19, УМ-1, УМ-3, УМ-8, УМ-13, УМ-19, УМ-21, УМ-22, ФК-3, ФК-4, ФК-5, ФК-6 ФК-7, ФК-9, ФК-10, ФК-11, ФК-12, ФК-14, ФК-18, ФК-19, ФК-31, 3K-1, 3K-6, 3K-10, 3K-13, 3K-14, AB-4, AB-5, AB-8, AB-10, AB-11, AB-19, AB-22	P-9	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-2, 3H-3, 3H-7, 3H-10, 3H-14, 3H-20, УМ-7, УМ-9, УМ-10, УМ- 11, УМ-21, УМ-22, УМ-23, ФК-2, ФК-4, ФК-5, ФК-6, ФК-7, ФК-8, ФК-9, ФК-13, ФК-14, ФК-15, ФК-17, ФК-18, 3K-1, 3K-10, 3K-11, AB-1, AB-3, AB-5, AB-13, AB-14, AB-20, AB-21, AB- 22,	P-10	<i>Individual test task</i> <i>Dissect the abutment teeth to make a metal- ceramic bridge</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "credited" Not fulfilled = "not credited"
3H-2, 3H-3, 3H-5, 3H-7, 3H-9, 3H-14, УМ-2, УМ-3, УМ-4, УМ-8, УМ-14, ФК-4, ФК-5, ФК-6, ФК-8, ФК-9, ФК-11, ФК-13, ФК-16, ФК-18, ФК-19, 3K-1, 3K-2, 3K-3, 3K-8, 3K-14, AB-3, AB-6, AB-8, AB-19, AB-22	P-11	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-1, 3H-4, 3H-6, 3H-8, 3H-12, 3H-13, 3H-14, 3H-19,	P-12	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good

<p>УМ-1, УМ-2, УМ-7, УМ-13, УМ-15, УМ-21, УМ-22, ФК-3, ФК-4, ФК-5, ФК-6 ФК-7, ФК-9, ФК-10, ФК-11, ФК-12, ФК-15, ФК-17, ФК-18, ФК-30, ЗК-1, ЗК-6, ЗК-10, ЗК-14, АВ-4, АВ-5, АВ-8, АВ-11, АВ-19, АВ-22</p>			91% -100% = excellent
<p>ЗН-1, ЗН-2, ЗН-5, ЗН-8, ЗН-13, ЗН-20, ЗН-21, ЗН-22, УМ-7, УМ-9, УМ-10, УМ-11, УМ-21, УМ-22, ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-10, ФК-15 ФК-1, ФК-18, ФК-19, ЗК-1, ЗК-10, ЗК-11, АВ-1, АВ-3, АВ-5, АВ-13, АВ-14, АВ-20, АВ-21, АВ-22, АВ-23</p>	P-13	<i>Individual test task</i>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p>
<p>ЗН-2, ЗН-3, ЗН-7, ЗН-10, ЗН-14, ЗН-20, УМ-7, УМ-9, УМ-10, УМ-11, УМ-21, УМ-22, УМ-23, ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-10, ФК-15, ФК-16, ФК-18, ФК-19, ЗК-1, ЗК-10, ЗК-11, АВ-1, АВ-3, АВ-5, АВ-13, АВ-14, АВ-20, АВ-21, АВ-22, АВ-23</p>	P-14	<i>Individual test task</i>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p>
<p>ЗН-2, ЗН-3, ЗН-8, ЗН-10, ЗН-20, УМ-7, УМ-9, УМ-21, УМ-22, УМ-23, ФК-4, ФК-5, ФК-6, ФК-7, ФК-9, ФК-10, ФК-15, ФК-16, ФК-18, ФК-19, ЗК-1, ЗК-10, ЗК-11, АВ-1, АВ-3, АВ-5, АВ-13, АВ-14, АВ-20, АВ-21, АВ-22, АВ-23</p>	P-15	<p><i>Individual test task</i></p> <p><i>Examine a phantom human head with partial loss of teeth</i></p>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p> <p>Completed = "is passed" Not fulfilled = "isn't passed"</p>
<p>ЗН-1, ЗН-2, ЗН-4, ЗН-6, ЗН-7, ЗН-14, ЗН-17, ЗН-18, ЗН-19, ЗН-20, ЗН-21, УМ-1, УМ-3, УМ-4, УМ-7, УМ-8, УМ-9, УМ-17, УМ-21, УМ-22, ФК-4, ФК-5, ФК-20, ФК-21, ФК-22, ФК-23, ФК-27, ФК-30, ФК-31, ЗК-1, ЗК-4, ЗК-5,</p>	P-16	<i>Individual test task</i>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p>

3K-6,3K-9,3K-13, 3K-14, AB-4, AB-8, AB-10, AB-13, AB-18, AB-20, AB-21, AB-22			
3H-2, 3H-3,3H-5, 3H-8,3H-10,3H-13, 3H-15,3H-18,3H-20, 3H-21,3H-22, УМ-2, УМ-3, УМ-5, УМ-8, УМ-13,УМ-14,УМ-20, УМ-22, ФК-2, ФК-5, ФК-24, ФК-25, ФК-26,ФК-30,ФК-31, 3K-1, 3K-2, 3K-3, 3K-4,3K-7,3K-13, AB-3, AB-4, AB-8, AB-12, AB-13, AB-14, AB-20, AB-22, AB-23	P-17	<i>Individual test task</i> <i>Get an anatomical impression of the upper / lower jaws</i> <i>Cast gypsum model for the manufacture of wax bases with occlusal rims</i> <i>Make a wax base with occlusal rims</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "is passed" Not fulfilled = "isn`t passed"
3H-1, 3H-2, 3H-4, 3H-6,3H-7,3H-11, 3H-14,3H-17,3H-21, 3H-22, УМ-2, УМ-4, УМ-5, УМ-7,УМ-11,УМ-18, УМ-21 ФК-3, ФК-4, ФК-5, ФК-6, ФК-20,ФК-23, 3K-3,3K-4,3K-5, 3K-8,3K-15, AB-9, AB-13, AB-18, AB-20,AB-21, AB-22, AB-23	P-18	<i>Individual test task</i> <i>Fix the central occlusion on the phantom using wax bases with occlusal rims</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "is passed" Not fulfilled = "isn`t passed"
3H-1,3H-3,3H-4, 3H-6,3H-8,3H-11, 3H-18,3H-21,3H-22, УМ-2, УМ-4, УМ-5,УМ-7,УМ-11,УМ-18,УМ-21 ФК-4, ФК-5, ФК-6, ФК-21, 3K-2, 3K-3, 3K-5, 3K-9, 3K-14, AB-9, AB-12, AB-21, AB-22	P-19	<i>Individual test task</i> <i>Arrangement of artificial teeth on a wax base</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "is passed" Not fulfilled = "isn`t passed"

<p>3H-1,3H-5,3H-7, 3H-13,3H-15,3H-20, 3H-21, УМ-6,УМ-7,УМ-13, УМ-14,УМ-22, ФК-1, ФК-5, ФК-21, ФК- 22, 3К-3, 3К-4, 3К-8,3К-10,3К-14,3К-15 АВ-3, АВ-6, АВ-14, АВ-15,АВ-21</p>	P-20	<i>Individual test task</i>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p>
<p>3H-1, 3H-2, 3H-4, 3H-5,3H-7,3H-13, 3H-15,3H-20,3H-21,3H-22, УМ-1, УМ-5, УМ-6, УМ-7,УМ-9,УМ-13, УМ-14,УМ-15,УМ-21, УМ-22, ФК-1, ФК-6, ФК-20, ФК-21, ФК-22,ФК-23, ФК-24, ФК-25,ФК-26, ФК-27, 3К-3, 3К-4, 3К-7, 3К-8,3К-10,3К-15 АВ-3, АВ-4, АВ-14, АВ-21, АВ-22</p>	P-21	<i>Individual test task</i>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p>
<p>3H-1,3H-4,3H-7, 3H-13,3H-20,3H-21, УМ-1,УМ-7,УМ-9, УМ-13,УМ-14,УМ-21, УМ-22, ФК-4, ФК-5, ФК-24, ФК- 25,ФК-27, 3К-3, 3К-4, 3К-8, 3К-14,3К-15 АВ-6, АВ-10, АВ-14, АВ-21</p>	P-22	<p><i>Individual test task</i></p> <p><i>Repair a partial removable prosthesis with self-hardening plastic</i></p>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p> <p>Completed = "is passed" Not fulfilled = "isn`t passed"</p>
<p>3H-1, 3H-2, 3H-4, 3H-7,3H-13,3H-20, 3H-21,3H-22, УМ-1, УМ-5, УМ-9, УМ-13,УМ-14,УМ-21, УМ-22, ФК-5, ФК-24, ФК-25,ФК-26, 3К-3, 3К-4, 3К-7, 3К-8,3К-14 АВ-6, АВ-14,АВ-15, АВ-21, АВ-22</p>	P-23	<i>Individual test task</i>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p>
<p>3H-2, 3H-4, 3H-5,3H-8, 3H-10,3H-13,3H-20, 3H-21,3H-22, УМ-3, УМ-5, УМ-7, УМ-9, УМ-13,УМ-14,УМ-15, УМ-20, ФК-4, ФК-5, ФК-6, ФК-20, ФК-21,ФК-23,ФК-24, ФК- 29,</p>	P-24	<p><i>Individual test task</i></p> <p><i>Checking knowledge of the structure of the parallelometer and the principle of its operation</i></p>	<p>0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent</p> <p>Completed = "is passed" Not fulfilled = "isn`t passed"</p>

3K-1, 3K-5,3K-14, 3K-15, AB-2, AB-6, AB-8, AB-10			
3H-2,3H-8,3H-10, 3H-20,3H-21, УМ-3, УМ-5,УМ-13, УМ-20, ФК-5, ФК-6, ФК-23, ФК-24, ФК-30, 3K-5,3K-8,3K-15, AB-1, AB-6, AB-10, AB-21	P-25	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-1,3H-4,3H-6, 3H-7,3H-12,3H-20, УМ-1, УМ-3, УМ-13, УМ-16,УМ-21, УМ-22, ФК-4, ФК-5, ФК-22, ФК-23,ФК-24, 3K-2, 3K-6, 3K-13, AB-3, AB-8, AB-9, AB-13	P-26-	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-2, 3H-3, 3H-5, 3H-11,3H-14,3H-17, УМ-7, УМ-11, УМ-14, ФК-23, ФК-31, 3K-3, 3K-9, 3K-10, 3K-13, 3K-16, AB-3, AB-7, AB-10	P-27	<i>Individual test task</i> <i>Model the frame of the clasp prosthesis on the proposed model</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent Completed = "is passed" Not fulfilled = "isn't passed"
3H-1, 3H-2, 3H-6, 3H-7,3H-8,3H-14,3H-15, 3H-20,3H-21, УМ-3, УМ-5, УМ-7, УМ-13,УМ-14,УМ-15, ФК-1, ФК-3, ФК-5, ФК-15, ФК-17, 3K-2, 3K-3, 3K-4,3K-5, 3K-8,3K-13,3K-14, AB-1, AB-5, AB-7, AB-11, AB-13, AB-14	P-28	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
3H-1, 3H-3, 3H-5, 3H-6,3H-10,3H-12, 3H-13,3H-15,3H-16, 3H-19,3H-21,3H-22, УМ-1, УМ-4, УМ-7, УМ-9,УМ-13,УМ-15, УМ-17УМ-19,УМ-20, УМ-22, ФК-5, ФК-24, ФК- 25, ФК-26,ФК-23, ФК-27, ФК-29, ФК-31, 3K-2, 3K-4, 3K-5, 3K-10,3K-14,3K-15, AB-4, AB-9, AB-10, AB- 14, AB-19, AB-21, AB-22	P-29	<i>Individual test task</i>	0% -49% = unsatisfactory 50% -70% = satisfactory 71% -90% = good 91% -100% = excellent
Final control			

General system evaluation	Participation in the work during the semester 100% on a 200-point scale	
Scales evaluation	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Terms of admission to final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for current performance	
Type of final control	Methods of final control	Criteria enrollment
Test	All topics listed on must be credited current control. Scores from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulations "Evaluation criteria, rules and procedures results of students' educational activities "	<i>Maximum number of points - 200.</i> <i>Minimal number of points - 120</i>

The calculation of number of points is based on the student's grades for 4 score (national) scale during the study of the discipline, by calculating the arithmetic mean (AM), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:

$$x = \frac{AM \times 120}{5}$$

9. Literature

1. Vishwas Kharsan. Textbook of Materials in Maxillofacial Prosthodontics: In Daily Practice. - LAP LAMBERT Academic Publishing (May 30, 2020)
2. Gaurav Vaishnav, Sareen Duseja, Biroom Patel. Evolutionary Changes in Bridge Design: Textbook of Fixed Prosthodontics. - LAP LAMBERT Academic Publishing (June 1, 2020)
3. Rangarajan. Textbook of Prosthodontics. – ELSEVIER RS; 2/E edition (January 1, 2017)
4. Deepak Nallaswamy Veeraiyan. Textbook of Prosthodontics 2nd Edition. - Jaypee Brothers Medical Pub; 2nd edition (September 30, 2017)
5. Mukti Goel, Pankaj Dhawan, Ankur Kansal. Occlusion in Fixed Prosthodontics. - LAP LAMBERT Academic Publishing (May 17, 2017)
6. Raisa Rashid, Shazana Nazir. Interocclusal Relations and Records in Prosthodontics. - Scholars' Press (January 23, 2018)
7. Kenneth L. Stewart. Clinical removable partial prosthodontics. - Mosby; 1st printing edition (January 1, 1982)
8. Alan B. Carr, Glen P. McGivney, David T. Brown. McCracken's Removable Partial Prosthodontics--11th International Edition. - Elsevier/Mosby; 11th Edition (January 1, 2005)
9. Herbert T Shillingburg Jr. Fundamentals of Fixed Prosthodontics-International Economy Edition Hardcover. - Quintessence India; Indian edition; 4th edition (January 1, 1900)
10. Alan B. Carr DMD MS, David T. Brown DDS MS. McCracken's Removable Partial Prosthodontics 13th Edition. - Mosby; 13th edition (December 16, 2015)
11. Herbert T. Shillingburg, David A. Sather Jr., Edwin L. Wilson Jr., Joseph R. Cain, Donald L. Mitchell, Luis J. Blanco, James C. Kessler. Fundamentals of Fixed Prosthodontics 4th Edition. - Quintessence Pub Co; 4th edition (March 30, 2012)
12. Rodney D. Phoenix, David R. Cagna, Charles F. DeFreest. Stewart's Clinical Removable Partial Prosthodontics, 4th Edition. - CBS; 4th edition (October 1, 2008)
13. Stephen F. Rosenstiel BDS MSD, Martin F. Land DDS MSD. Contemporary Fixed Prosthodontics 5th Edition. – Mosby; 5th edition (October 2, 2015)

10. Equipment, logistics and software of the discipline / course

- methodical instructions for practical classes, lectures, independent work in the discipline "propaedeutics of orthopedic dentistry";
- individualized test tasks;
- multimedia presentations;
- phantoms of teeth;
- models with phantom teeth;
- phantom phantom of the patient;
- articulators with models of jaws with various defects of dentitions;
- tools for performing orthopedic manipulations;
- tools for technical manipulation manipulations;
- materials for technical manipulation manipulations;
- MISA learning environment;
- demonstration material.

Compiler of syllabus

Assoc. Prof. Klyuchkovska N.R.

Assoc. Prof Kulinchenko R.V.

(Signature)

The head of department

Assoc. Prof. Kukhta V.S.

(Signature)