

PRIVATE HIGHER EDUCATIONAL INSTITUTION
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"
Department of Dentistry

SYLLABUS
OF THE EDUCATIONAL DISCIPLINE

" Orthopedic dentistry "

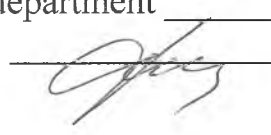
LEVEL OF HIGHER EDUCATION The second (master's) level

DEGREE OF HIGHER EDUCATION Master

FIELD OF KNOWLEDGE 22 Healthcare

SPECIALTY 221 Dentistry

COURSE _ 3 _

Considered and approved
at a meeting of the Department of Dentistry
Protocol № 1 from «01» 09 2020 p.
Acting head of the department _____
MD, prof.  Kuts P.V.

Kiev 2020

1. General information	
Subject	Orthopedic dentistry
Lector	Acting Head of the Department, Doctor of Medical Sciences, Professor, KutsP.V. Bida A.V.
Teacher's contact phone number	
Teacher's e-mail	forum-for-me@bigmir.net
Discipline format	Normative discipline.
The volume of the discipline	165 hours 5,5 ECTS
Link to the distance learning site	maem.kiev.ua
Consultations	Tuesday of each week 12.00-13.30
2. Annotation to the course	
<p>Orthopedic 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. The special (professional) competencies acquired in this way are used by students in the process of treatment of orthopedic dental patients. Students get acquainted with the organization and work of clinical offices, documentation.</p> <p>The subject of study of the discipline "Orthopedic Dentistry" is orthopedic treatment of diseases of the dental apparatus:</p> <ul style="list-style-type: none"> - defects of the coronal part of individual teeth - partial loss of teeth 	
3. Purpose and objectives of the course	
<p>1.1. The purpose of studying the discipline "Orthopedic Dentistry" is to master the method of performing certain dental manipulations on patients, which are used in the treatment of patients with defects of the crown of the tooth, with partial adentia, for their further use in treating patients and forming special (professional) competencies in the clinic. orthopedic dentistry.</p> <p>1.2. The main tasks of studying the discipline "orthopedic dentistry" are:</p> <p>Examination of patients in the clinic of orthopedic dentistry</p> <ul style="list-style-type: none"> • 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 bridges • 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 production of clasp prostheses and prostheses with cast metal base • Adaptation to removable dentures and the impact of dentures on oral tissues 	
4. Competencies and learning outcomes	
<p>Learning outcomes Learning methods</p> <p>Have modern methods of prevention, diagnosis and treatment of patients with defects of the crown of the tooth, with partial defects of the dentition. Lectures, seminars, oral interviews, tests, dialogue with applicants for higher education, creative work with the creation of multimedia presentations and their presentation, independent work with literary sources</p> <ul style="list-style-type: none"> - integral: <ul style="list-style-type: none"> Ability to solve problems and problems in the field of health care in the specialty "Dentistry" in a professional activity or in the learning process, which involves research and / or innovation. - general: 011 <ol style="list-style-type: none"> 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.
- special (professional, subject):
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 relationship between dentist and patient.
 4. Demonstrate examination of the patient.
 - Be able to establish a preliminary and final diagnosis based on survey data (clinical and laboratory).
 - Be able to suggest a plan for orthopedic treatment.
 - Be able to choose a plan to prepare the patient's mouth for prosthetics.
 - To study the method of examination - occlusogram
 - To study the method of obtaining an impression for the manufacture of solid non-removable structures
 - Know the method of obtaining impressions for the manufacture of stamped and stamped-soldered prostheses
 - To study the sequence of fixation of the central occlusion in 1 group of defects with the help of occlusal blocks
 - Determining the position of the upper jaw with a facial arch
 - Know the sequence of applying the facial arch
 - Examine the sequence of models in the articulator using the front arc.
 - Know the methods of anesthesia for tooth preparation
 - Know the types of gum retraction
 - Know the sequence of preparation of teeth under a stamped metal crown.
 - Know the sequence of preparation of teeth for a solid metal and combined crown
 - To study the design of the bridge
 - Know the sequence of checking the design of artificial crowns
 - Know the sequence of checking the design of the bridge.
 - To study the method of fixing crowns and bridges
 - Know the methods of removing crowns.
 - 5. Demonstrate the performance of dental manipulations on patients
 - Know the sequence of obtaining an anatomical impression of the lower and upper jaws for the manufacture of partial removable dentures
 - To study methods of determination and fixation of the central ratio of jaws at 2,3 groups of defects by means of occlusal rollers
 - Master the design of the design of a partial removable prosthesis.
 - Master the stages of parallelometry of the diagnostic model and plan the clamp fixation of the clasp prosthesis
 - Master the sequence of checking the design of a partial removable prosthesis

- Examine the correction of a partial removable prosthesis
 - Know the sequence of relocation of a partial removable prosthesis
6. Distinguish the features of the principles of asepsis and antiseptics in the clinic of orthopedic dentistry:
- * to study modern requirements for sterilization of instruments in the clinic of orthopedic dentistry;
 - * realize the importance of following the rules of asepsis and antiseptics at the dentist;
 - * master the rules of control over the effectiveness of sterilization;
 - * identify methods to prevent conditions for the spread of infection in medical institutions.
- As a result of studying the discipline "orthopedic dentistry" the student must be able to:
- Module 1 "Fixed prosthetics"
1. Examine the patient. Establish a preliminary and final diagnosis based on survey data (clinical and laboratory).
 2. To offer the plan of orthopedic treatment.
 3. To offer the plan of preparation of an oral cavity of the patient for prosthetics.
 4. Occludogram
 5. Get an impression for the manufacture of solid non-removable constructions
 6. Obtaining prints for the manufacture of stamped and stamped-soldered prostheses
 7. To fix the central occlusion at 1 group of defects by means of occlusal blocks
 8. Determining the position of the upper jaw with a facial arch
 9. Transfer of models to the articulator by means of a front arch
 10. Analysis of occlusion on diagnostic models in the articulator.
 11. Anesthesia during tooth preparation
 12. Perform retraction of the gums
 13. Preparation of teeth under a stamped metal crown.
 14. Preparation of teeth under a solid metal and combined crown
 15. Planning the design of a bridge
 16. Check the design of artificial crowns
 17. Checking the design of the bridge.
 18. Fixation of crowns and bridges
 19. Removal of crowns.
- Module 2 "Partial removable prosthetics"
1. Examine the patient. Establish a preliminary and final diagnosis based on survey data (clinical and laboratory).
 2. To offer the plan of orthopedic treatment.
 3. To offer the plan of preparation of an oral cavity of the patient for prosthetics
 4. Get an anatomical impression of the lower and upper jaws for the manufacture of partial removable dentures
 5. Determine and fix the central ratio of the jaws in 2.3 groups of defects using occlusal rollers
 6. Planning the design of a partial removable prosthesis.
 7. Carry out parallelometry of the diagnostic model and plan the clamp fixation of the clasp prosthesis
 8. Check the design of a partial removable prosthesis
 9. Correction of a partial removable prosthesis
 10. Relocation of a partial removable prosthesis

5. Organization of course training

The volume of the course

Type of lesson	<i>Total amount of hours</i>
Lectures	20
Practical classes	100
Independent work	45

Course signs

Semester 5,6	Specialty <u>221 Dentistry</u>	Course (year of study) -3	Normative discipline Orthopedic dentistry
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Course thematics

**THEMATIC PLAN OF LECTURES
IN ORTHOPEDIC DENTISTRY
FOR STUDENTS OF THE 3TH COURSE OF THE 6TH SEMESTER 2020-2021**

**Lecture topics
Module 1 "Fixed prosthetics"**

№ 3/II	Topic name	Number of hours
1	Examination of patients in the clinic of orthopedic dentistry. Basic and additional methods of examination. Diagnosis	2
2	Anesthesia in the clinic of orthopedic dentistry. Emergencies at the dental office	2
3	Functional anatomy and biomechanics of the dental apparatus. Clinical analysis of occlusion.	2
4	Indications and clinical and technological stages of manufacturing artificial crowns	2
5	Indications and clinical and technological stages of manufacturing bridge prostheses	2
	Total	10
	THEMATIC PLAN OF LECTURES IN ORTHOPEDIC DENTISTRY FOR STUDENTS OF THE 3TH COURSE OF THE 6TH SEMESTER 2020-2021 academic year "Partial removable prosthetics"	

№	Topic name	Number of hours
1	Structural and functional changes of the dental apparatus with partial loss of teeth. Examination of patients. Design features and comparative characteristics of different types of partial removable protheses, indications. Pre-prosthetic preparation	2
2	Factors that ensure the fixation of the partial removable protheses. Planning of partial removable protheses design depending on clinical conditions; selection of abutment teeth and fixing elements, base boundaries. Determination of the ratio of jaws in 1-3 groups of dentition defects. Placement of teeth in the partial removable protheses. Check the design of the partial removable protheses	2
3	Clasp bugel protheses - design planning depending on clinical conditions. Types of fixing elements. Parallelometry	2
4	Technological stages of partial removable protheses manufacturing. Duplication of models. Refractory masses. Casting of clasp prosthesis frames and metal bases. Compression and casting, polymerization of plastics.	2

5	Imposition and correction of partial removable protheses. Adaptation to removable dentures. Relocation and repair of removable dentures. Influence of prosthesis bases on oral tissues. Prosthetic stomatitis.	2
	Total	10

**THEMATIC PLAN OF PRACTICAL CLASSES
FOR STUDENTS OF 3 COURSES 6 CEMESTR
"PARTIAL REMOVABLE DENTURES"**

№ з/п	Title of topic	hours
1	Examination of patients with partial loss of teeth. Changes after partial loss of teeth	3
2	Constructions of partial removable dentures - indications for prosthetic. Planning the fixing of partial removable dentures.	3
3	Supporting teeth, clammer's lines	3
4	Methods of fixing partial removable dentures	3
5	Substantiation for construction, boundaries of bases of partial removable protheses	3
6	Determination and fixation of the ratio of jaws in I, II groups of defects of dentition	3
7	Determination and fixation of the ratio of jaws in III groups of defects of dentition	3
8	Tooth placement in partial removable dentures	3
9	Verification of the design of partial removable dentures	3
10	Manufacturing technology of partial removable dentures with a plastic basis. Compression and foundry plastics pressing	3
11	Overlays and correction of partial removable dentures	3
12	Dentures with metal frame - design planning depending on clinical conditions. Types of fixing elements. Parallelometry (Surveying).	3
13	Fixing dentures with metal frame. Support and retention clamers (claps), the Neya's system	3
14	Technological stages of manufacturing of removable dentures with a solid metal frame. Duplication of working models	3
15	Compensation of shrinkage of alloys during casting.	3
16	Forming masses. Modeling of wax reproductions of dentures with metal frame	3
17	Casting technology dentures with metal frame	3
18	Checking the design of dentures with metal frame. Dentures with metal frame overlays	3
19	Adaptation to removable dentures, terms of use. Repair and relocation of prosthetics. Mistakes and complications.	3
20	Influence of bases of removable dentures on the mucous membrane of the oral cavity. Prosthetic stomatitis Differentiated credit	4
	Total number of hours	60

**THEMATIC PLAN OF PRACTICAL CLASSES
IN ORTHOPEDIC DENTISTRY
FOR STUDENTS OF THE 3TH YEAR OF THE 5TH SEMESTER**

№	Name of topic	hours
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1	Examination of the patient in the clinic of orthopedic dentistry. Clinical methods of examination. Additional (special) examination methods. Preliminary and final diagnosis.	3
2	Chewing system components; their characteristics. Types of occlusions, their characteristics and signs. Analysis of diagnostic models in the articulator. Basics of working with the articulator.	3
3	Anesthesia in the clinic of orthopedic dentistry. Indications for the use of various types of analgesia. Mistakes and complications of local anesthesia.	3
4	Indications for replacement of hard tissue defects with artificial crowns.	3
5	Clinical and laboratory stages of manufacturing a stamped metal crown.	3
6	Indications, clinical and laboratory stages of manufacturing a combined crown. Indications, clinical and laboratory stages of making a plastic crown.	3
7	Clinical and laboratory stages of making a solid crown.	3
8	Errors and complications in prosthetics with artificial crowns.	3
9	Clinical issues of using bridge prostheses.	3
10	Indications, clinical and laboratory stages of manufacturing stamped-brazed bridges.	3
11	Indications and clinical stages of production of solid bridge prostheses.	3
12	Laboratory stages of production of solid bridge prostheses. Fixation of fixed dentures. Complications and errors in prosthetics with bridge prostheses	3
13	Credit	4
	Total	40

THEMATIC PLAN OF INDEPENDENT WORK OF STUDENTS (IWS) Thematic plan of independent work Module 1 "Fixed prosthetics" 5 semester		
№	Name of topic	Number of hours
1	Preparation for practical classes - theoretical preparation, work on test tasks, albums and presentations	19
2	Study of topics that are not included in the lesson plan:	
	Diagnostic wax modeling when planning orthopedic treatment using fixed structures	1
3	Preparation for credit	5
	Total	25

Module 2 "Partial removable dentures" 6 semester		
№	Name of topic	Number of hours
1	Preparation for practical classes - theoretical preparation, work on test tasks, albums and presentations	15
2	Study of topics that are not included in the lesson plan:	
	Clinical and laboratory stages of manufacturing partial removable prostheses with locking	1
	Modern materials for the manufacture of denture bases	1
3	Preparation for credit	3
	Total	20

6. Course evaluation system

General course evaluation system	<p>Current control is performed based on the control of theoretical knowledge, skills and abilities in practical classes. Independent study students are assessed in practical classes, and is an integral part of the final grade of the student. Current control is performed during the training sessions and aims at checking the assimilation of students learning the material. Forms of current control are:</p> <p>a) test tasks with a choice of one correct answer, with the definition of the correct sequence of actions, with determination of the conformity, defining the specific portion of the photo or diagram ("detection");</p> <p>b) individual oral questioning, interview;</p> <p>c) the solution of typical situational tasks;</p> <p>g) control of practical skills;</p> <p>Grades on the national scale ("excellent" - 5, "good" - 4, "satisfactory" - 3, "unsatisfactory" - 2), received by students, are displayed in the journals of attendance and academic group performance.</p> <p>Final control</p> <p>The final control is the form of a differentiated credit at the end of the 1st semester and at the end of the 2nd semester upon completion of the course of medical biology. The semester exam is a form of final control of mastering by the student of theoretical and practical material on academic discipline. The final control (exam) is carried out at the last control lesson.</p> <p>Students are admitted to the FC who have attended all the classes provided by the curriculum in the discipline and while studying the module scored the number of points not less than the minimum (72 points). A student who, for good or bad reasons, has missed classes, is allowed to rework academic debt for a certain period of time.</p> <p>Evaluation of current educational activities. During the assessment of mastering each topic for the current educational activity of the student scores are set on a 4-point (national) assessment scale. This takes into account all types of work provided by the discipline program. The student must receive a score on each topic. Scores on the traditional scale are converted into points. The final assessment of the current academic activity is the arithmetic mean (the sum of scores for each lesson is divided by the number of lessons per semester) and translated into points according to Table 2.</p> <p>Table 2. Conversion of the average score for the current activity into a multi-point scale (for disciplines completed by diff.credit, exam)</p> <table border="1"> <thead> <tr> <th>4-point scale</th> <th>120-point scale</th> <th>4-point scale</th> <th>120-point scale</th> <th>4-point scale</th> <th>120-point scale</th> <th>4-point scale</th> <th>120-point scale</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>120</td> <td>4,45</td> <td>107</td> <td>3,91</td> <td>94</td> <td>3,37</td> <td>81</td> </tr> <tr> <td>4,95</td> <td>119</td> <td>4,41</td> <td>106</td> <td>3,87</td> <td>93</td> <td>3,33</td> <td>80</td> </tr> <tr> <td>4,91</td> <td>118</td> <td>4,37</td> <td>105</td> <td>3,83</td> <td>92</td> <td>3,29</td> <td>79</td> </tr> </tbody> </table>	4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale	5	120	4,45	107	3,91	94	3,37	81	4,95	119	4,41	106	3,87	93	3,33	80	4,91	118	4,37	105	3,83	92	3,29	79
4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale																										
5	120	4,45	107	3,91	94	3,37	81																										
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4,91	118	4,37	105	3,83	92	3,29	79																										

4,87	117	4,33	104	3,79	91	3,25	78
4,83	116	4,29	103	3,74	90	3,2	77
4,79	115	4,25	102	3,7	89	3,16	76
4,75	114	4,2	101	3,66	88	3,12	75
4,7	113	4,16	100	3,62	87	3,08	74
4,66	112	4,12	99	3,58	86	3,04	73
4,62	111	4,08	98	3,54	85	3	72
4,58	110	4,04	97	3,49	84	<3	Not enoug h
4,54	109	3,99	96	3,45	83		
4,5	108	3,95	95	3,41	82		

The maximum number of points that a student can collect for current educational activity during semester in order to be admitted to the exam is 120 points.

The minimum number of points that a student can collect for current educational activity during semester in order to be admitted to the exam is 72 points.

Calculating of the number of points is based on obtained marks of student according to traditional scale while learning subject during the semester, by calculating the arithmetic mean (AM) that is rounded to two signs after comma.

Evaluation of independent work of students. Independent work of students, which is provided by the topic of the lesson together with the classroom work, is evaluated during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the final module control.

Evaluation of final control.

The maximum number of points that a student can score during the exam is 80 points.

The final control is considered credited if the student scored at least 60% of the maximum amount of points (for a 200-point scale - at least **50 points**).

Determining the number of points that a student scored in the discipline: the number of points that a student scored in the discipline is defined as the sum of points for the current academic activity (Table1) and for the final control (diff.credit, exam) (Table 3).

Table 3. Scale of assessment of differentiated (exam) credit:

Traditional scale	Points
«5»	70-80
«4»	60-69
«3»	50-59

Requirements for written work

The final written work is performed in the form of a test.

Practical classes

Classroom work

The 1st semester

Classroom work - score from 2 to 5 for each topic.

Differentiated credit (semester control) Semester control at the end of the 1st semester is provided in the form of Differentiated credit. (Table 2) Provides a final grade on a 120-point scale as the sum of grades for the current control of knowledge (oral examination, written survey, Practical work, abstracts).

Semester control includes control of theoretical and practical training.

Amount: minimum 72 + 50 = 122, maximum 120 + 80 = 200

The 2nd semester

Classroom work - score from 2 to 5 for each topic.
Final module control is evaluated from 50 to 80 points and consists of: Test control - 40 tests = 40 points (1 point for the correct answer to 1 test). Answer to 2 theoretical questions of 20 points for each = 40 points. Amount: 80.
Amount: minimum $72 + 50 = 122$, maximum $120 + 80 = 200$
<p style="text-align: center;">The list of theoretical questions to prepare students for the exam.</p> <p>As a result of studying the discipline "orthopedic dentistry" the student must be able to:</p> <p>Module 1 "Fixed prosthetics"</p> <ol style="list-style-type: none"> 1. Examine the patient. Establish a preliminary and final diagnosis based on survey data (clinical and laboratory). 2. To offer the plan of orthopedic treatment. 3. To offer the plan of preparation of an oral cavity of the patient for prosthetics. 4. Occludogram 5. Get an imprint for the manufacture of solid non-removable structures 6. Obtaining prints for the manufacture of stamped and stamped-soldered prostheses 7. To fix the central occlusion at 1 group of defects by means of occlusal blocks 8. Determining the position of the upper jaw with a facial arch 9. Transfer of models to the articulator by means of a front arch 10. Analysis of occlusion on diagnostic models in the articulator. 11. Anesthesia during tooth preparation 12. Perform retraction of the gums 13. Preparation of teeth under a stamped metal crown. 14. Preparation of teeth under a solid metal and combined crown 15. Planning the design of a bridge 16. Check the design of artificial crowns 17. Checking the design of the bridge. 18. Fixation of crowns and bridges 19. Removal of crowns. <p>Module 2 "Partial removable prosthetics"</p> <ol style="list-style-type: none"> 1. Examine the patient. Establish a preliminary and final diagnosis based on survey data (clinical and laboratory). 2. To offer the plan of orthopedic treatment. 3. To offer the plan of preparation of an oral cavity of the patient for prosthetics 4. Get an anatomical impression of the lower and upper jaws for the manufacture of partial removable dentures 5. Determine and fix the central ratio of the jaws in 2.3 groups of defects using occlusal rollers 6. Planning the design of a partial removable prosthesis. 7. Carry out parallelometry of the diagnostic model and plan the clamp fixation of the clasp prosthesis 8. Check the design of a partial removable prosthesis 9. Correction of a partial removable prosthesis 10. Relocation of a partial removable prosthesis <p style="text-align: center;">The list of practical skills for final module control</p> <ul style="list-style-type: none"> • Be able to establish a preliminary and final diagnosis based on survey data (clinical and laboratory). • Be able to suggest a plan for orthopedic treatment. • Be able to choose a plan to prepare the patient's mouth for prosthetics. • To study the method of examination - occludogram • To study the method of obtaining an impression for the manufacture of solid non-removable structures • Know the method of obtaining impressions for the manufacture of stamped and stamped-soldered prostheses • To study the sequence of fixation of the central occlusion in 1 group of defects with the help of

- occlusal blocks
- Determining the position of the upper jaw with a facial arch
 - Know the sequence of applying the facial arch
 - Examine the sequence of models in the articulator using the front arc.
 - Know the methods of anesthesia for tooth preparation
 - Know the types of gum retraction
 - Know the sequence of preparation of teeth under a stamped metal crown.
 - Know the sequence of preparation of teeth for a solid metal and combined crown
 - To study the design of the bridge
 - Know the sequence of checking the design of artificial crowns
 - Know the sequence of checking the design of the bridge.
 - To study the method of fixing crowns and bridges
 - Know the methods of removing crowns.
- Demonstrate the performance of dental manipulations on patients
- Know the sequence of obtaining an anatomical impression of the lower and upper jaws for the manufacture of partial removable dentures
 - To study methods of determination and fixation of the central ratio of jaws at 2,3 groups of defects by means of occlusal rollers
 - Master the design of the design of a partial removable prosthesis.
 - Master the stages of parallelometry of the diagnostic model and plan the clamp fixation of the clasp prosthesis
 - Master the sequence of checking the design of a partial removable prosthesis
 - Examine the correction of a partial removable prosthesis
 - Know the sequence of relocation of a partial removable prosthesis

Circumstance of admission to the final control	<p>1. Semester control at the end of the 1st semester is provided in the form of a differential credit. (Table 2) Provides a final score on a 120-point scale as the sum of scores for the current control of knowledge (oral examination, written survey, tests, verification of identification of micropreparations, abstracts), the results of 2 content modules.</p> <p>2. Students are allowed to take the differentiated credit, exam only if there is no debt for the implementation of the curriculum.</p>
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7. Course policy

The organization of the educational process is carried out with the use of the European Credit Transfer System (ECTS) to assess student performance. The points gained in the current survey, independent work and points of the final control are credited. This must take into account the student's presence in class and his activity during practical work. Inadmissible: absences and late classes; use of a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher); copying and plagiarism; untimely performance of the task, the presence of unsatisfactory grades for 50% or more of the submitted theoretical and practical material.

8. RECOMMENDED LITERATURE

1.Basic:

1. Gasyuk PA, Kostenko EY, Machogan VR, Rosolovskaya SO, Vorobets AB, Radchuk VB Stud Book of Orthopedic Dentistry. Ternopil-Uzhhorod. 2018. - 369 p.
2. Rozhko MM, Nespryadko VP, Mikhailenko TN etc. Dental prosthetic equipment. - К .: Книга-плюс, 2016. - 604 с.
3. Dentistry. Textbook. In 2 books. - Book. 1 / MM Rozhko, ZB Popovich, VD Kuroyedova and others; for order. Prof. M.M.Рожка. - К .: ВСВ «Медицина», 2013. - 872 с.
4. Gasyuk PA Almanac of orthopedic dentistry // PA Gasyuk, E. Ya. Kostenko, VR Machogan, SO Rosolovskaya, AB Vorobets // Ternopil: Bogdan - 2015. - 352с.
5. Gasyuk PA Technological aspects of manufacturing orthopedic structures // PA Gasyuk, DM Korol, SO Rosolovskaya, LS Korobeynikov, VB Radchuk, RV Kozak // Ternopil: FOP Parkhin RA - 2016. - 140p.
6. King DM Fundamentals of clasp prosthetics / DM King, DD Kindiy, LS Korobeynikov, OD Odzhubeyskaya, RV Kozak, TP Malyuchenko // Poltava. - 2016 - 139p.

7. Korol MD Dental materials science / MD Korol, OD Odzhubeykaya, DM Korol, IM Tkachenko, VM Petrushanko, MO Ramus, AD Dorubets, DD Kindiy, LS Korobeynikov // Poltava: FOP Myron IA - 2018. - 176p.

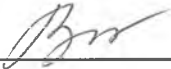
8. Fastovets OO Non-removable dental prosthetics: a textbook / OO Fastovets, RA Kotelevsky, SS Kobylyak // Dnipro: DMA. - 2013. - 212p.

2.Additional:

1. Golik VP All-ceramic restorations of hard tissues of teeth. Textbook / VP Golik; IV Yanishen, A. Yu. Nikonov, IO Pereshivailova // Kh .: KhNMU. - 2016. - 14p.

2. Golik VP Replacement of defects of hard tissues of a tooth by pin designs. Indications. Clinical and laboratory stages of production. Textbook / VP Golik; OS Maslovsky, IV Yanishen, OO Berezhna, AV Pogorila // Kh .: KhNMU. - 2015. - 27p.

3. Gasyuk AP Human odontology / AP Gasyuk, PA Gasyuk, TV Novoseltseva // Saarbrücken: LAMBERT Academic Publishing. - 2015. - 181p.

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