

**SYLLABUS OF THE EDUCATIONAL COMPONENT
INDUSTRIAL DENTAL PRACTICE
(PROSTHETIC DENTISTRY)**

Specialty: **221 "Dentistry"**

Educational and professional program: **Dentistry**

Component code in the educational program: **GC 37**

Higher education level: **second (master's)**

Form of education: **full-time (daily)**

Year of study: 4

Semester(s): **VIII (spring)**

Type of educational component: **mandatory**

Academic year: **2027-2028**

Volume: **2 ECTS credits (60 hours)**

Training sessions: **practical classes, independent work, consultations**

Final control: differential credit

Prerequisites: GC 4; GC 6; GC 7; GC 8; GC 12; GC 13; GC 14; GC 17; GC 18; GC 19; GC 20; GC 21, GC 22; GC 23; GC 25; GC 27

Department/Unit: **Department of Prosthetic Dentistry**, Peremohy Ave., 51, UDC KhNMU, 4th floor

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Page of the educational component in the Distance Learning System of KhNMU

(Moodle): <http://distance.knmu.edu.ua/course>

DESCRIPTION OF THE EDUCATIONAL COMPONENT

Industrial dental practice (Prosthetic dentistry) is an educational component aimed at consolidating and deepening students' knowledge of orthopedic dentistry, developing practical skills and professional competencies in real clinical conditions.

PURPOSE OF THE COURSE: development of clinical thinking, skills of interaction with patients and interdisciplinary cooperation, as well as preparation of future dentists for independent professional activity in the field of orthopedic dentistry.

LEARNING OUTCOMES:

- Demonstrate practical skills in examining patients with defects in the hard tissues of teeth and dentition, conducting a clinical examination, taking a history, functional tests, and analyzing occlusion.
- Determine indications and contraindications for orthopedic treatment, develop an individual treatment plan taking into account the functional, aesthetic and anatomical features of the patient.
- Perform clinical stages of manufacturing removable, non-removable and combined orthopedic structures.
- Use modern materials, tools and equipment in accordance with technological requirements and safety regulations.
- Evaluate the results of orthopedic treatment, identify possible complications, and carry out their prevention and correction.
- Adhere to the principles of professional ethics, medical deontology, asepsis and antisepsis when working with patients.
- Work independently and in a team, effectively interact with doctors of other specialties and dental technicians in the process of comprehensive orthopedic treatment.

CONTENT OF THE EDUCATIONAL COMPONENT

List of topics of practical lessons (12 hours):

1. Replacement of hard tissue defects of teeth with inlays. Restoration of teeth after endodontic treatment. Gum retraction. Methods of obtaining impressions. Orthopedic treatment of defects of dental crowns with veneers.
2. Aesthetic crowns: plastic, composite, metal-ceramic, metal-free. Indications and contraindications. Clinical and laboratory stages manufacturing of aesthetic crowns.
3. Replacement partial defects of the dentition with bridge prostheses. Indications and contraindications. Clinical and laboratory stages of manufacturing bridge prostheses.
4. Replacement of dentition defects with partial partial removable dentures. Clinical and laboratory stages of manufacturing. Indications and contraindications for replacement of partial dentition defects with clasp dentures.
5. Orthopedic treatment of edentulous jaws.
6. DIFF.CREDIT

List of topics of independent work of the student (48 hours)

1. Algorithms of medical actions at an orthopedic appointment.
2. Possibilities of aesthetic restorations. Technique of execution.
3. Features of orthopedic treatment with pin structures.
4. Microprosthetics capabilities, manufacturing tools.
5. Features of designing bridge prostheses for dentition defects.
6. Comparative characteristics of removable and non-removable structures.
7. Possibilities and advantages of a clasp prosthesis.
8. Features of the treatment of edentulous jaws and ways to solve them.
9. Emergencies: diagnostics, first aid, prevention.

The IWS is aimed at deepening and consolidating the theoretical knowledge gained during classroom training and contributing to the formation of professional competencies. The results of the IWS are subject to control and are included in the final control of knowledge.

Consultations: online, according to the schedule of the educational department.

Teaching methods: narrative-explanation, conversation, illustration, demonstration, presentation, videos, video films, discussion, modeling of processes and situations, case method, project method, debate, "Brainstorming" method.

EVALUATION

Current Learning Activities (CLA)- is the educational activity of a student during the semester, which is controlled by a scientific and pedagogical worker conducting classes in a group. CLA is considered completed if the student has completed all missed classroom lessons and lectures in the current semester, and the average score for all PC topics is 3 points or higher, in which case the report is marked "completed" and the average score in a 4-point system is indicated (calculated automatically within the functionality of the ASM electronic journal), or "not completed", if the student has missed classroom lessons and lectures in the current semester, or the average score is below 3 points.

Independent work of the student (IW) The educational material of the discipline, intended for the student to master in the process of independent work, is submitted for final control together with the educational material studied during classroom training sessions.

General Educational Activities (GEA)- is considered completed if student has completed all missed classroom lessons and lectures, and the average score for all PC topics is 3 points or higher. Points for the GEA for disciplines with the form of control "differentiated credit" are calculated as the arithmetic average of PC points for all topics of all semesters, throughout the entire period of studying the discipline (with an accuracy of one hundredth) according to Table 1 "Recalculation of the average score for current

control into a multi-point scale, automatically within the functionality of the electronic journal of the ASM. GEA is determined in points from 70 to 120. GEA is determined in points from 120 to 200, in accordance with the "Instructions for assessing the educational activities of higher education applicants at KhNMU".

Individual tasks (IT) contribute to a more in-depth study of theoretical material by the student, the formation of skills in using knowledge to solve relevant practical tasks. IT is performed by the student independently, receiving the necessary consultations from a scientific and pedagogical worker.

- report student's essay on a practical lesson 0-2 points;
- presentation report in the practical lesson 0-3 points,
- report at scientific and practical conferences, writing abstracts, articles 0-5 points;
- participation in the All-Ukrainian Olympiad – 5-10 points

IT are evaluated in points (no more than 10), which are added to the points scored for the LND upon completion of the discipline, during the "credit test."

The total score for GEA and IT cannot exceed 200 points.

Final control. Admission to the DC is calculated in terms of GEA scores from 70 to 120 points. The DC itself is evaluated from 50 to 80 points.

Grade in subject (GS). The grade for the discipline is the sum of the points for the CLA, IT and DC and ranges from 120 to 200 points.

Appealing the results of the final control is carried out in accordance with the procedure established in KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf).

EDUCATION COMPONENT POLICIES

Recommendations for working on the course: To successfully complete the relevant course, you must regularly attend practical classes; have theoretical preparation for practical classes according to the topic; not be late or miss classes; complete all necessary tasks and work in each class; be able to work with a partner or as part of a group; contact the course supervisors for help on various issues related to the subject of the classes and receive it when you need it. The participation of education seekers in conducting scientific research and conferences on this topic is encouraged.

Attending classes. Attendance at lectures and practical classes is mandatory. The uniform for offline classes is a white medical gown. If you are more than 5 minutes late, you may not be allowed to attend the class. Missed classes are made up in accordance with the Regulations on the procedure for students of KhNMU to complete classes (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf).

Academic integrity. KhNMU stands on the positions of zero tolerance to manifestations of academic dishonesty. Any violations of the principles of academic integrity entail responsibility in accordance with the procedure established by KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_ad-1.pdf).

Use of electronic gadgets and artificial intelligence tools. Copying, using various kinds of software, hints, using a mobile phone, tablet, or other electronic gadgets during class for purposes unrelated to the educational process are not allowed.

Policy on individuals with special educational needs. Applicants with special educational needs should contact a teacher to develop an individual educational trajectory.

Teacher response time: 24 hours.

Technical requirements for the course:

- access to a computer, laptop, tablet or smartphone
- corporate Google account with your own photo
- skills in working with Google Workspace (Google Meet, Docs, Sheets, Slides, Forms) and Moodle

Technical support: ASM (ev.shevtsov@knmu.edu.ua), Google (tehotdelknmu@gmail.com), Moodle (al.korol@knmu.edu.ua)

RECOMMENDED SOURCES

1. Dentistry. Textbook. In 2 books. – Book. 1 /M.M.Rozhko, Z.B.Popovich, V.D.Kuroyedova and others.; edited by Prof. M.M.Rozhko. – K.: VSV “Medicine”, 2020. – 872 p.
2. Rozhko M.M., Nespryadko V.P., Mykhailenko T.N. and others. Prosthetic technique. – K.: Kniga-plus, 2018. – 604 p.
3. Basic technologies for manufacturing dentures: teaching aids / Vinnytsia. NMU named after M.I. Pirogov, Ukr. med. stomat. academy, Ternop. State Medical University named after I.Ya. Gorbachevsky; compiled by E.V. Belyaev and others. - Vinnytsia: Works, 2019. - 104 p.
4. Gasyuk P.A., Kostenko E.Ya., Machogan V.R., Rosolovska S.O., Vorobets A.B., Radchuk V.B. Stud Book on Orthopedic Dentistry. Ternopil-Uzhgorod. 2018. - 369 p.
5. Gasyuk P. A. Almanac of Orthopedic Dentistry // P. A. Gasyuk, E. Ya. Kostenko, V. R. Machohan, S. O. Rosolovska, A. B. Vorobets // Ternopil: Bohdan – 2018. – 352p.
6. Gasyuk P. A. Technological aspects of manufacturing orthopedic structures // P. A. Gasyuk, D. M. Korol, S. O. Rosolovska, L. S. Korobeynikov, V. B. Radchuk, R. V. Kozak // Ternopil: FOP Parkhin R. A. – 2017. – 140p.
7. Korol D. M. Fundamentals of clasp prosthetics / D. M. Korol, D. D. Kindiy, L. S. Korobeynikov, O. D. Odzhubeyka, R. V. Kozak, T. P. Malyuchenko // Poltava. – 2019 – 139p.
8. Korol M. D. Dental materials science / M. D. Korol, O. D. Odzhubeyka, D. M. Korol, I. M. Tkachenko, V. M. Petrushanko, M. O. Ramus, A. D. Dorubets, D. D. Kindiy, L. S. Korobeynikov // Poltava: FOP Myron I. A. – 2018. – 176p.
9. Fastovets O. O. Fixed dental prosthetics: educational and methodological manual / O. O. Fastovets, R. A. Kotelevsky, S. S. Kobilyak // Dnipro: DMA. – 2017. – 212p.

Methodological guidelines:

1. Order of patient's orthopedic treatment stages. Golik VP, Yanishen IV, Grishanin GG, Tomilin VG, Diudina IL 2017.
<http://repo.knmu.edu.ua/handle/123456789/15536>
2. Replacement of partial defects of dentition with bridge-like prostheses. Indications and contraindications. Yanishen I.V., Pogorila A.V., Pereshivaylova I.O., Shepenko A.G. – 2017.
<http://repo.knmu.edu.ua/handle/123456789/22228>
3. Modern methods of examination of dental patients. Preparation of the oral cavity before orthopedic intervention. Drawing up a treatment plan for a dental patient. Yanishen I.V., Pereshyvailova I.O., Pogorila A.V., Yaryna I.M. - 2018.
<http://repo.knmu.edu.ua/handle/123456789/22247>
4. Aesthetic crowns: plastic, composite, metal-ceramic, metal-free. Indications and contraindications. Yanishen I.V., Pereshyvailova I.O., Pohorila A.V., Yaryna I.M. – 2018.
<http://repo.knmu.edu.ua/handle/123456789/22274>

Lectures:

1. Orthopedic treatment (restoration) of dentition defects (partial adentia) by dental fixed bridges. Tomilin, VG-2020.
<http://repo.knmu.edu.ua/handle/123456789/12149>
2. Maxillofacial orthopedics. Goals and objectives. Classification of jaw fractures. Clinical, diagnostic, orthopedic treatment. Tomilin, VG -2019.
<http://repo.knmu.edu.ua/handle/123456789/12147>
3. Adaptation to removable prosthesis in orthopedic treatment of dentition partial defects. Mistakes and complications in orthopedic treatment by removable dentures. Tomilin, VG -2020.
<http://repo.knmu.edu.ua/handle/123456789/12144>

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