

**MINISTRY OF HEALTHCARE OF UKRAINE  
POLTAVA STATE MEDICAL UNIVERSITY**



**ACADEMIC AND PROFESSIONAL PROGRAM  
DENTISTRY**

**of the second (master's) level of higher education  
in the specialty I1 Dentistry  
field of knowledge I Health and Social Care  
academic qualification: Master of Dentistry  
professional qualification: Dentist**

APPROVED  
minutes of the Academic Council of the Academy  
as of May 26, 2016 No. 9  
Academic and professional program  
comes into force on September 1, 2016  
Order of the Rector  
as of May 27, 2016 No. 150-a

Amendments and additions to the Academic and  
Professional Program approved by  
the Academic Council of the University dated  
June, 25, 2025,  
the minutes № 11, will come into force on  
September, 1, 2025.  
The order of the rector № 271 of June, 30, 2025.

**Poltava 2025**

## AGREEMENT LETTER OF ACADEMIC AND PROFESSIONAL PROGRAM

**Agreed**

**Head of the Curriculum Department**

«23» 06 2025



**Ivan STARCHENKO**

**Agreed**

**Dean of the Dental Faculty**

«20» 06 2025



**Liliia BURIA**

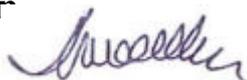
**Agreed**

**Acting Dean of the Faculty**

**of the Higher Education Institution**

**International Faculty**

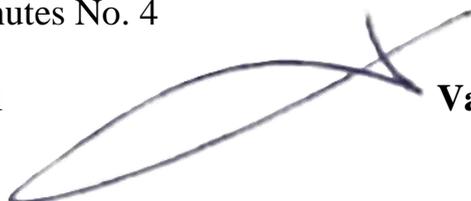
“19” 06 2025



**Oleksandr Liulka**

The Academic and Professional Program was discussed and approved at the meeting of the Council for Quality Assurance of Higher Education and Educational Activities of Poltava State Medical University dated “06” 05 2025, Minutes No. 4

**Chairman of the Council**



**Valentyn DVORNYK**

## FOREWORD

Academic and Professional Program “Dentistry” of the second (master’s) level of higher education in the specialty I1 “Dentistry”, the field of knowledge I “Health and Social Care”, is developed in accordance with the Law of Ukraine “On Higher Education”, Standard of higher Education in specialty 221 “Dentistry” in the field of knowledge 22 “Healthcare” for the second (master’s) level of higher education, Resolution of the Cabinet of Ministers of Ukraine as of 29.04.2015 No. 266 “On approval of the list of fields of knowledge and specialties in which higher education applicants are trained” (as amended in accordance with the Resolutions of the Cabinet of Ministers of Ukraine as of 27.09.2016 No. 674, 1.02. 2017 No. 53, 7.07. 2021 No. 762, and 16.12.2022 No. 1392, 30.08.2024 No. 1021, 15.11. 2024 No. 1300, and 21.02. 2025 No. 188), Resolution of the Cabinet of Ministers of Ukraine as of 23.11.2011 No. 1341 “On approval of the National Qualifications Framework” (as amended in accordance with the Resolutions of the Cabinet of Ministers of Ukraine dated 12.06.2019 No. 509, 25.06.2020 No. 519), Resolution of the Cabinet of Ministers of Ukraine as of 28.03. 2018 No. 334 “On approval of the Procedure for a single state qualification examination for applicants for a master’s degree in the field of knowledge ‘Healthcare’”, Resolution of the Cabinet of Ministers of Ukraine as of 30.12. 2015 No. 1187 “On approval of license conditions for academic activities of educational institutions”, as well as other applicable regulations.

Academic and professional program is a normative document, which defines the profile of academic and professional program in specialty I1 “Dentistry”, the list of program components and their logical sequence, the number of ECTS credits required to implement this program, the form of certification of higher education applicants.

Academic and professional program was developed by the working group of Poltava State Medical University, consisting of:

Olha SHESHUKOVA – project team leader, guarantor of academic and professional program, Doctor of Medical Sciences, Professor, Head of the Department of Pediatric Therapeutic Dentistry;

Helfira KUZ – member of the project group, Candidate of Medical Sciences, Associate Professor, Head of the Department of Prosthetic Dentistry with Implantology;

Iryna TKACHENKO – member of the project group, Doctor of Medical Sciences, Professor, Head of the Department of Propedeutics of Therapeutic Dentistry;

Kateryna LOKES – member of the project team, Candidate of Medical Sciences, Associate Professor, Head of the Department of Surgical Dentistry and Maxillofacial Surgery;

Nataliia LOKHMATOVA – member of the project team, Candidate of Medical Sciences, Associate Professor, Head of the Department of Pediatric Surgical Dentistry;

Liudmyla AMOSOVA – member of the project team, Candidate of Medical Sciences, Associate Professor, Associate Professor of the Department of Pediatric Therapeutic Dentistry;

Oleh NESTERENKO – member of the project team, Candidate of Medical Sciences, Associate Professor, Head of Practical Training (Industrial and Educational);

Nataliia LUPATSA – the Deputy Chief Doctor for Medical Services of the utility enterprise “Poltava Regional Dentistry Centre – Dental Polyclinics”, Poltava Regional council;

Svitlana MYKYTENKO – prosthodontist at the dental clinic “Estet-Service”, Poltava, Ukraine;

Dana ROVENSKA – member of the working group, 4th-year student of the Dental Faculty, Poltava State Medical University.

#### **Reviews from external stakeholders:**

1. Serhii PODRUZHYN – General Director of the Municipal Non-Profit Enterprise “Prylutsk City Dental Polyclinic” of the Prylutsk City Council, Chernihiv Region.

2. Petro SKRYPNYKOV – Chairman of the Association of Dentists of Poltava region and Chief Physician of the Municipal Enterprise “Poltava Regional Center of Dentistry – Dental Clinical Polyclinic” of Poltava Regional Council.

3. Erika SVYRYDA – Director of LLC “Medion Medical Treatment and Diagnostic Center”, Poltava.

4. Liudmyla KRAVCHENKO – Director of LLC “Krynychky Plus”, Kyiv.

5. Oksana HODOVANETS – Doctor of Medical Sciences, Professor of the Department of Pediatric Dentistry, Bukovinian State Medical University.

6. Oleksandr HUDARYAN – Doctor of Medical Sciences, Professor of the Department of Surgical Dentistry, Implantology, and Periodontology, Dnipro State Medical University.

7. Serhii HORBAN – General Director of the Municipal Non-Profit Enterprise “Chernihiv Regional Dental Polyclinic”, Chernihiv Regional Council.

8. Maryna HRYNOVA – Doctor of Pedagogical Sciences, Professor, Professor of the I.A.Zyazyun Department of Pedagogical Skills and Management, Rector of Poltava V. H. Korolenko National Pedagogical University.

9. Mariya SHINKARUK-DYKOVYTSKA Doctor of Medical Sciences, Professor, Head of the Therapeutic Dentistry Department, National Pirogov Memorial Medical University.

10. BELACHEM ELAOUDI NADJIB – Dentist, Eljadida Dental Center, Morocco.

11. MAMMADOV Akber – Owner of the private dental clinic "Dentallux estetik klinika" (Baku, Azerbaijan).

12. Rita KOZAEVA – Owner of the private dental clinic "Zahnarztpraxis Rita Kozaeva" (Baden-Baden, Germany).

13. Olha VORODIUKHINA – Dentist, Bilboro Medical Center, Nottingham, United Kingdom.

***Updates, revisions, amendments and supplements to the academic and professional program Dentistry for the second (master's) level of higher education in the specialty II Dentistry, the field of knowledge I Health and Social Care:***

Academic year	Approval by the Academic Council of UMSA (since 24.02.2021 PSMU) (date, minutes No.)	Rector's order on the introduction of APP into effect (date, order No.)	Date of introduction of APP into effect
2017/2018	As of 11 July 2017 No. 13	As of 12 July 2017 No. 228	From 01 September 2017
2018/2019	As of 20 June 2018 No. 10	As of 21 June 2018 No. 261	From 01 September 2018
2019/2020	As of 30 August 2019 No. № 1	As of 30 August 2019 No. 288	From 01 September 2019
2020/2021	As of 30 June 2020 No. 12	As of 2 July 2020 No. 331	From 01 September 2020
2021/2022	As of 23 June 2021 No. 2	As of 25 June 2021 No. 421	From 01 September 2021
2022/2023	As of 11 June 2022 No.10	As of 21 June 2022 No. 165	From 01 September 2022
2023/2024	As of 21 June 2023 No. 9	As of 21 June 2023 No. 221	From 01 September 2023
2024/2025	As of 8 May 2024 No. 8	As of 18 June 2024 No. 233	From 01 September 2024
2024/2025	As of 28 August 2024 No. 1	As of 29 August 2024 No. 295	From 01 September 2024
2025/2026	As of 25 June 2025 No. 11	As of 20 June 2025 No. 271	From 01 September 2025

## 1. Profile of academic and professional program in the specialty I1 Dentistry

Components	Description of academic and professional program
<b>1. General information</b>	
<b>Full name of the institution of higher education and structural unit</b>	Poltava State Medical University Dental Faculty International Faculty
<b>Degree of higher education and title of qualification in the original language</b>	Academic degree – Master Specialty – I1 Dentistry Academic qualification – Master of Dentistry Professional qualification – Dentist Qualification in the diploma – Master of Dentistry. Dentist
<b>The official name of academic and professional program</b>	Dentistry, ID 66020
<b>Type of diploma and scope of academic and professional program</b>	Master's degree, single issue, 300 ECTS credits, duration of study: 4 years 10 months.
<b>Availability of accreditation</b>	Accredited by the National Agency for Higher Education Quality Assurance with the definition of «exemplary». Certificate №2430 as of 05.10.2021. Validity of the certificate until 01.07.2026.
<b>Cycle / Level</b>	National Qualifications Framework of Ukraine – level 7; FQ – EHEA – the second cycle, EQF – level 7
<b>Prerequisites</b>	Terms of admission are regulated by the “Rules of admission to Poltava State Medical University”. Admission to the Dentistry program is open to individuals who have completed secondary education or who hold a Level 5 qualification under the National Qualifications Framework (NQF) in the specialty of Dentistry, provided that they successfully pass the National Multi-Subject Test (NMT) with a competitive score of at least 150. Admission and enrolment of foreigners and stateless persons are based on the results of entrance examinations and on the academic rights to continue education conferred by the educational qualification obtained in the country of origin, taking into account academic performance scores that entitle the applicant to further education in accordance with the legislation of the country that issued the qualification.
<b>Language(s) of instruction</b>	Ukrainian, English
<b>Validity of academic and professional program</b>	5 years
<b>Internet address of the permanent placement of the description of academic and professional program</b>	<a href="https://www.pdmu.edu.ua/fakultets/stomat/profil-osvitnoyi-programi">https://www.pdmu.edu.ua/fakultets/stomat/profil-osvitnoyi-programi</a> <a href="https://en.pdmu.edu.ua/info/foreign-students/description-of-educational-and-professional-program-dentistry">https://en.pdmu.edu.ua/info/foreign-students/description-of-educational-and-professional-program-dentistry</a>

### 2. The purpose of academic and professional program

Academic and professional program corresponds to the mission, vision and key values of the

University and is aimed at training highly qualified, competitive, competent professionals who can solve complex problems and issues in the field of dentistry and healthcare or in the learning process, characterized by uncertain conditions and requirements, and perform the professional activities of a dentist.

**3. Characteristics of Academic and Professional Program**

<b>Subject Area (Field of Knowledge, Specialty, Specialization)</b>	<p>Field of Knowledge: I Health Care and Social Care Specialty: I 1 Dentistry</p> <p><i>Scope of activity:</i> preservation of health, particularly dental health; prevention, diagnosis, and treatment of human oral and dental diseases. <i>Objectives:</i> to prepare a specialist capable of solving complex tasks and problems in the field of Dentistry and Health Care, or during the learning process, under uncertain conditions and requirements, and to perform professional activities as a dentistry doctor.</p> <p><i>Theoretical content of subject area:</i> includes knowledge in the humanities, fundamental (natural and social) sciences, and clinical sciences related to public health, as well as prevention, diagnosis, and treatment of oral and dental diseases at individual, family, and population levels required for professional dental practice.</p> <p><i>Methods, techniques, and technologies:</i> anamnestic, clinical, laboratory, radiological, and functional diagnostic methods in accordance with medical care protocols / guidelines; technologies for the diagnosis, treatment, and prevention of oral and dental diseases; healthcare management and organization.</p> <p><i>Instruments and equipment:</i> Modern diagnostic and therapeutic tools, instruments, and equipment used in professional dental practice.</p>
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<b>Orientation of the Academic and Professional Program</b>	The program is application-oriented in the field of health care, particularly oral health, and focuses on the prevention, diagnosis, and treatment of human oral and dental diseases.
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<b>Main Focus of the Program</b>	Higher education in the field of knowledge I “Health Care and Social Care”, specialty I 1 “Dentistry.” Keywords: health care, dentistry, medicine, higher education, Master’s degree, dentistry doctor.
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<b>Program Features</b>	The program incorporates advanced international experience in dental education and current trends prioritizing private dental practice. The program is implemented in small groups through a combination of practical and theoretical training and provides opportunities for the formation of an individual educational trajectory through elective components (at least 10% of the total number of credits). Practical skills are developed during practical classes and clinical training under instructor supervision
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**4. Graduate Employability and Further Training**

<b>Employability</b>	Graduates are prepared to work according to the Classification of Economic Activities (CEA) State Classifier (SC) 009:2010: <i>Section Q</i> – Health Care and Social Care <i>Division 86</i> – Health Care
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	<p><i>Group 86.2 – Medical and Dental Practice</i> <i>Class 86.23 – Dental Practice</i></p> <p>Upon completion of the academic and professional program in the specialty Dentistry, a graduate is qualified to perform the following professional duties: Intern doctor (Occupational Classifier code – 3229) Also prepared to work under State Classifier 003:2010:</p>
<b>Further Training</b>	<p>Upon completion of training at APP Dentistry and obtaining the degree of «Master of Dentistry» graduates have the right to enter the postgraduate education program – internship (primary specialization), where training is carried out by AP Dentistry in accordance with the Order of the Ministry of Healthcare as of 22.06.2021. № 1254 «On Approval of the Regulations on Internships and Secondary Medical (Pharmaceutical) Specialization» (as amended). Graduates of the AP can also enroll in academic and research programs for the degree of «Doctor of Philosophy» (PhD) and receive additional qualifications in the system of postgraduate education.</p> <p>Upon completion of the internship, the specialist is awarded the qualification of Dentistry Doctor, who is capable of performing the professional work specified in the SC 003:2010 (National Classification of Occupations) and may hold the corresponding medical position: Section 2: Professionals Class 222: Health professionals (except nursing) Subclass 2222: Dental professionals Group 2222.2: Dentistry Doctors</p> <p>In the future, the specialist may undergo training in secondary specialization courses and perform the corresponding types of professional activities.</p> <p>Professional advancement is ensured through Continuous Professional Development (CPD) in accordance with Order of the Ministry of Health of Ukraine No. 446 dated February 22, 2019, “Certain Issues of Continuous Professional Development of Doctors” (as amended).</p>
<b>5. Teaching and Assessment</b>	
<b>Teaching, Training, and Learning</b>	<p>The main types of academic activities and training at Poltava State Medical University embrace: lectures, practical classes, seminars, consultations, individual tasks, research under the instructor’s guidance, self-directed extracurricular work, occupational practical training, clinical training.</p> <p>Learning methods used: problem-based learning (PBL), self-directed learning, practice-oriented training, inquiry-based (research) learning, simulation-based training.</p>
<b>Assessment</b>	<p>Academic performance assessment of PSMU higher education students includes ongoing (formative) and final (summative) assessment of knowledge and practical skills.</p>

	<p>Final (summative) assessment comprises semester assessments and certification exams.</p> <p>The grades “<i>Excellent</i>”, “<i>Good</i>”, “<i>Satisfactory</i>” are assigned based on the results of final module controls (FMC), examinations, and practical training sessions. The grade “<i>Passed</i>” is used for credit-based assessments (pass/fail assessments).</p> <p>Attestation under the Academic and Professional Program in Dentistry (Specialty II) is carried out in the form of the Unified State Qualification Examination (USQE). The USQE is conducted in accordance with the “Procedure for Conducting the Unified State Qualification Examination for the Master's Degree in Specialties of the field of knowledge “22 Healthcare” (as amended) and includes the following components:</p> <ul style="list-style-type: none"> <li>• Integrated test exam “KROK”, which evaluates compliance of the quality of training with national higher education standards. Conducted by the State Non-Profit Enterprise “<i>Testing Board for Professional Competence Assessment of Higher Education Graduates in Medicine and Pharmacy under the Ministry of Health of Ukraine</i>”;</li> <li>• English for Specific Purposes (ESP) exam, which assesses the professionally-oriented English language competence of higher education students and is conducted by the State Non-Profit Enterprise “<i>Testing Board for Professional Competence Assessment of Higher Education Graduates in Medicine and Pharmacy under the Ministry of Health of Ukraine</i>”;</li> <li>• Objective Structured Practical (Clinical) Examination (OSP(C)E), which assesses a graduate’s readiness to engage in professional activity in accordance with Higher Education Standards by demonstrating practical (clinical) components of professional competence on a real subject or a model, and is conducted by the authorized institutions and the University Examination Board.</li> </ul>
<p><b>Awarding of a Professional Qualification under the Program</b></p>	<p>The Procedure for assessing the competencies of a higher education student, based on the results of which their learning outcomes may be recognized and a professional qualification awarded by the university, includes several stages.</p> <p><b>Stage 1:</b></p> <p>The guarantor and the working group responsible for developing (or revising) the Program formulate the goals of the academic program and design its content, taking into account the requirements of the professional standard (if available):</p> <ul style="list-style-type: none"> <li>– In the profile of the academic and professional program (APP), they define the specific professional qualification to be awarded upon successful completion of the Program, providing a rationale for the relevance and feasibility of the proposed qualification (including labor market analysis, consultations with employers and professional associations);</li> <li>– They formulate a list of program learning outcomes in accordance with the Higher Education Standard for the specialty, clearly describe the learning outcomes corresponding to the chosen professional qualification, and establish specific criteria and indicators</li> </ul>

demonstrating the student's achievement of these learning outcomes; employers must be involved in this process;

- **Criteria for selecting training sites for practical training and clinical education of medical students are determined jointly with employers**, taking into account regulatory and legal documents, the human resource potential of the sites, and the level of material and technical support.

**Stage 2**  
involves determining and agreeing with the Practical Training Base on the scope, list of competencies, and learning outcomes of practical training necessary for future professional activity:

- preliminary formulation of a list of competencies and learning outcomes, including a draft list of general and specific (professional) competencies that students are expected to acquire at the training base;
- identification of specific program learning outcomes from the Academci and Professional Program (APP) for each competency that students must achieve during practical training;
- determination of the scope of practical training in accordance with the APP, including the duration of the practical training in hours/weeks and ECTS credits required to acquire the defined competencies and achieve the specified program learning outcomes.

**Stage 3** involves the completion of practical training by students in professional settings, which reinforces and deepens their acquisition of the competencies and learning outcomes in accordance with the goals of the Program and relevant professional standards. Students must complete all required practical and clinical training sessions, fulfilling tasks developed in line with the job functions defined by the professional standard.

**Stage 4** provides for the assessment of the completeness of the competencies acquired by students and the achievement of the program learning outcomes in accordance with the Program:

- determination of the timing and procedures for conducting interim assessments of the level of competence and achievement of program learning outcomes, which serve as the basis for awarding the relevant professional qualification(s) upon completion of practical training or clinical education;
- definition of the procedure for obtaining interim (ongoing) assessment results from the practical training setting regarding the student's hands-on experience in the workplace, as well as the mechanisms for taking these results into account, either in qualitative or quantitative form.

**Stage 5** – final attestation. After successful and complete fulfillment of the requirements of the Program by students and their individual study plan, including completion of practical training in the volume defined by the Program, students are admitted to final attestation.

The awarding of professional qualifications to graduates who have successfully completed the Program is carried out following the attestation, based on the final meeting and by a separate decision of the Examination Board. The Higher Education Institution ensures the participation of labor market representatives as members of the Examination Board (EB), granting them priority voting rights in the awarding of professional qualifications.

	<p>Attestation is conducted within the period specified by the Order of the Rector of Poltava State Medical University. During the evaluation process, labor market representatives have equal rights in discussion, assessment, and forming conclusions.</p> <p><b>Stage 6</b> – decision on awarding the professional qualification: voting is conducted openly. In the case of disagreement or a tie, the decision is considered adopted if supported by the majority of labor market representatives present. The priority voting right is applied only when considering the section “fitness for professional practice,” i.e., decisions regarding whether the level of practical and clinical training meets the requirements of the professional qualification.</p> <p>The Examination Board shall make one of the following decisions:</p> <ul style="list-style-type: none"> <li>– recognition of the student’s learning outcomes and awarding of the academic and professional qualification;</li> <li>– refusal to award the academic and professional qualification to the student.</li> </ul> <p>The decision of the Examination Board is recorded in the minutes of the meeting.</p> <p>The student is issued a document indicating the awarded professional qualification.</p> <p>The revocation of the Examination Board decision to award one or more professional qualifications to a graduate is considered an exceptional measure and is applied only in cases where evidence emerges indicating that the decision made as a result of attestation was untruthful, dishonest, or unfounded.</p> <p>Grounds for revoking a decision on the awarding of a professional qualification include: violation of academic integrity principles; falsification of practical training results.</p>
<b>6. Program Competences</b>	
<b>Integral Competence</b>	The ability to solve complex tasks and problems in the field of healthcare within the specialty “Dentistry” during professional activity or the learning process that implies conducting research and/or implementing innovations under uncertain conditions and requirements.
<b>General Competences (GC)</b>	<ol style="list-style-type: none"> <li>1. Ability to engage in abstract thinking, analysis, and synthesis.</li> <li>2. Knowledge and understanding of the subject area and understanding of professional activity.</li> <li>3. Ability to apply knowledge in practical situations.</li> <li>4. Ability to communicate in the state language both orally and in writing.</li> <li>5. Ability to communicate in English. Ability to use international Greco-Latin terms, abbreviations, and clichés in professional spoken and written language.</li> <li>6. Skills in the use of information and communication technologies.</li> <li>7. Ability to search for, process, and analyze information from various sources.</li> <li>8. Ability to adapt to and act in new situations.</li> <li>9. Ability to identify and resolve problems.</li> <li>10. Ability to be critical and reflective.</li> <li>11. Ability to work in a team.</li> <li>12. Commitment to environmental preservation.</li> </ol>

	<p>13. Ability to act with social responsibility and awareness.</p> <p>14. Understanding civic rights and responsibilities, democracy, sustainable development, human rights, and the rule of law in Ukraine.</p> <p>15. Ability to preserve and enhance moral, cultural, and scientific values and achievements of society based on an understanding of the history and patterns of the subject area's development, its place in the general system of knowledge about nature and society and in the development of society, engineering, and technology; and to use various types and forms of physical activity for active recreation and leading a healthy lifestyle.</p> <p>16. Ability to make decisions and act in accordance with the principle of integrity, rejection of corruption and any other forms of academic or professional dishonesty.</p>
<p><b>Special (Professional) Competences</b></p>	<ol style="list-style-type: none"> <li>1. Ability to collect medical history and analyze clinical data.</li> <li>2. Ability to interpret the results of laboratory tests and instrumental investigations.</li> <li>3. Diagnosis formulation including preliminary, clinical, final, and comorbid diagnoses, as well as emergency conditions.</li> <li>4. Ability to plan and conduct disease prevention for oral and maxillofacial areas.</li> <li>5. Ability to determine appropriate treatment approaches and treatment plans for managing diseases of oral and maxillofacial areas.</li> <li>6. Ability to determine a rational regimen for work, rest, and diet for patients during the treatment</li> <li>7. Ability to determine management tactics for patients with diseases of oral and maxillofacial areas and comorbid conditions.</li> <li>8. Ability to perform medical and dental procedures.</li> <li>9. Ability to treat the primary diseases of oral and maxillofacial organs</li> <li>10. Ability to organize and conduct medical evacuation measures.</li> <li>11. Ability to provide emergency medical care.</li> <li>12. Ability to organize and conduct screening dental examinations.</li> <li>13. Ability to assess environmental impact on health (individual, family, population levels).</li> <li>14. Ability to handle standard medical documentation.</li> <li>15. Processing governmental, social, and medical information.</li> <li>16. Ability to organize and conduct rehabilitation and care for patients with diseases of oral and maxillofacial areas.</li> <li>17. Legal awareness in professional practice</li> <li>18. Ability to provide pre-hospital emergency care under tactical medicine protocols</li> </ol>
<p><b>7. Program learning outcomes</b></p>	
<ol style="list-style-type: none"> <li>1. To distinguish and identify the leading clinical symptoms and syndromes (according to Appendix 1); as consistent with standard methods, using preliminary data from a patient's anamnesis, data from a patient's examination, knowledge about a person, their organs and systems, to make a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to Appendix 2).</li> <li>2. To collect information about the general condition of a patient, assess the psychomotor and physical development of a patient, the condition of the organs of the maxillofacial area, to assess information about the diagnosis based on the results of laboratory and instrumental studies (according to Appendix 5).</li> </ol>	

3. To prescribe and analyze additional (mandatory and optional) examination methods (laboratory, radiological, functional and / or instrumental) according to Appendix 5, for patients with diseases of organs and tissues of the oral cavity and maxillofacial area to conduct differential diagnostics of diseases (according to Appendix 2).
4. To determine the final clinical diagnosis in accordance with the relevant ethical and legal norms, by making a substantiated decision and logical analysis of the obtained subjective and objective data of clinical, additional examination, differential diagnostics under the supervision of a doctor at a healthcare establishment (according to Appendix 2.1).
5. To diagnose emergencies under any circumstances (at home, on the street, at a medical institution), under emergency conditions, in case of martial law, lack of information and limited time (according to Appendix 4).
6. To plan and implement measures to prevent dental diseases among the population to prevent the spread of dental diseases.
7. To analyze the epidemiological situation and carry out measures of mass and individual, general and local medicinal and non-medicinal prevention of dental diseases.
8. To determine the approach, plan, type and principle of treatment of dental disease (according to Appendix 2) by making a substantiated decision according to existing algorithms and standard schemes.
9. To determine the nature of the mode of work, rest and the necessary diet in the treatment of dental diseases (according to Appendix 2) on the basis of preliminary or final clinical diagnosis by making a substantiated decision according to existing algorithms and standard schemes.
10. To determine the tactics for a dental patient with somatic pathology (according to Appendix 3) by making a substantiated decision according to existing algorithms and standard schemes.
11. To conduct treatment of major dental diseases according to existing algorithms and standard schemes under the doctor's supervision at a healthcare establishment (according to Appendix 2).
12. To organize medical and evacuation measures among the population, servicemen, under emergency situations, including martial law, during the stages of medical evacuation, taking into account the existing system of medical and evacuation support.
13. To determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances on the basis of a diagnosis of emergency in a limited time (according to Appendix 4).
14. To analyze and evaluate governmental, social and medical information using standard approaches and computer information technology.
15. To assess the impact of the environment on the health of the population at a medical institution according to standard methods.
16. To form goals and determine the structure of personal activity based on the result of the analysis of certain social and personal needs.
17. To adhere to a healthy lifestyle, using the techniques of self-regulation and self-control.
18. To be aware of and guided in one's activities by civil rights, freedoms and responsibilities, to raise the general cultural level.
19. To adhere to the principles of ethics, bioethics, and deontology in one's professional practice.
20. To organize the necessary level of individual safety (one's own and that of patients) in case of typical dangerous situations in the individual field of activity.
21. To perform medical procedures on the basis of preliminary and / or final clinical diagnosis (according to Appendices 2 and 2.1) for different segments of the population and under different conditions (according to Appendix 6).
22. To perform medical dental procedures on the basis of preliminary and / or final clinical diagnosis (according to Appendices 2 and 2.1) for different segments of the population and under different conditions (according to Appendix 7).

23. To perform emergency medical care procedures, using standard schemes, under any circumstances on the basis of an emergency diagnosis within a limited period of time (according to Appendices 6 and 7).
24. To develop measures for organization, integration of dental care and marketing of medical services, including dental services in the functioning of a healthcare institution, its unit, in a competitive environment.
25. To know and understand the fundamental and clinical biomedical sciences at a level sufficient to address problems in the field of healthcare in the specialty “Dentistry” in professional practice or in the course of studying.

### **8. Resource support for program implementation**

<b>Academic Staff</b>	<p>The academic and teaching staff of the University departments fully ensure the training of higher education applicants in the specialty II “Dentistry” in accordance with the Licensing Conditions (Resolution of the Cabinet of Ministers of Ukraine “On Approval of the Licensing Conditions for Conducting Educational Activities by Educational Institutions” dated December 30, 2015, No. 1187, as amended on May 10, 2018, No. 347). The formation of a high-quality academic and teaching staff is carried out through postgraduate training of University graduates and the involvement of teachers with academic degrees and academic titles in professional and teaching activities on a competitive basis through the conclusion of contracts. The members of the support group responsible for implementing the educational component of the educational and professional program have qualifications relevant to the specialty, including higher education, an academic degree and/or an academic title, as well as a confirmed level of scientific and professional activity. One hundred percent of the academic and teaching staff of the support group are full-time employees of the University. Teaching lecture material for higher education applicants is 100% provided by scientific and pedagogical staff with a scientific degree and academic title.</p>
<b>Material and Technical Support</b>	<p>The material and technical facilities of Poltava State Medical University enable the teaching and learning process, scientific research, and clinical activities to be carried out at a modern level in accordance with the requirements of the state standards of higher education for specialist training, the curriculum, and the program components of the educational and professional program. The learning conditions for higher education applicants at the University fully comply with hygienic requirements.</p> <p>The University has a total floor area of 51,343.9 m<sup>2</sup>. It has 15 buildings on its balance sheet, including five academic buildings (total area – 23,202.2 m<sup>2</sup>), four dormitories (total area – 23,476.2 m<sup>2</sup>), a dental center, a sports and health complex, a canteen, utility buildings, a vivarium, hangars, and a sports and recreation camp. All buildings have technical passports.</p> <p>The total area of educational facilities directly used in the educational process is as follows: educational premises located in the University buildings amount to 21,179.8 m<sup>2</sup>, and educational facilities of departments located in healthcare institutions amount to 12,452.45 m<sup>2</sup>.</p> <p>The training of higher education applicants is conducted at clinical bases that have appropriate material and technical support in compliance with the requirements for healthcare institutions authorized to provide medical training. These facilities are equipped with modern dental equipment, universal dental units, advanced ultrasound diagnostic devices, simulators, models, phantoms, dummies, and mannequins.</p>

	<p>During practical classes in clinics, diagnostic equipment is used, including ultrasound diagnostic systems, computed tomography scanners, and X-ray diagnostic devices, among others. One hundred percent of lecture halls are equipped with multimedia equipment. To ensure the development of all practical skills and work with simulated patients, the University has established the Educational, Research, and Clinical Unit “Dental Center.” To enhance professional knowledge and provide advanced practical training, a number of diagnostic and training centers have been established, including: the Regional Scientific and Practical Center for Diseases of the Oral Mucosa; the Scientific and Methodological Center for Primary Prevention of Dental Diseases in Children of Poltava Region; the Educational and Consulting Diabetology Center; the Educational and Practical Laboratory of Clinical Rehabilitation; the Educational and Practical Center for Rehabilitation of Oncology Patients; the Educational and Practical Training Center of Modern Technologies of Perinatal Medicine by N. M. Maksymovych-Ambodyk; the Educational and Practical Center of General Practice and Family Medicine; the Poltava Regional Antihypertensive Center; the Poltava Regional Educational Scientific and Practical Center of Interventional Radiology; the Educational, Diagnostic, and Clinical Pulmonology Center; the Educational, Diagnostic, and Clinical Center for Patients with Parkinson’s Disease and Degenerative Disorders; and the Educational, Diagnostic, and Clinical Center for Patients with Primary Headache Disorders.</p> <p>In May 2020, a new Simulation Center was opened, equipped with modern simulators for practicing practical skills and conducting objective structured clinical examination as a component of the attestation of applicants for the second (master’s) level of higher education in the specialty II “Dentistry”.</p> <p>The book provision for most components of the educational-professional program meets the licensing requirements. A virtual reference service and interlibrary loan are in operation. All library resources and services are available online through a blog.</p> <p>The provision of computers for students during their studies fully meets the regulations. The university’s local network is connected to the Internet via a fiber-optic cable with a guaranteed bandwidth of 1 Gb/sec. To provide students with Internet access, a wireless network has been set up, covering the areas of students’ hostels No.1, No.2, No.3, and No.4, library, and all University buildings.</p> <p>The university’s sports facilities for practical physical education classes and sports club activities include five sports halls (2,052.2 m<sup>2</sup>) and sports grounds (3,608 m<sup>2</sup>).</p>
<p><b>Information, Educational and Methodical Support</b></p>	<p>The information and educational-methodological support complies with the Licensing Conditions for conducting educational activities in training specialists at the second (master’s) level of higher education and includes: the academic calendar, curriculum, course syllabi, thematic plans for lectures, practical and seminar classes, syllabi, assessment criteria, lists of questions for ongoing and final assessments, list of examination questions, lists of situational and test tasks, lists of recommended educational and methodological literature, as well as visual and technical teaching aids. The educational-methodological documentation is prepared by the academic staff of the departments. The provision of educational materials for each component of the educational-professional program is 100%.</p>

	The official website of the university, <a href="https://www.pdmu.edu.ua/">https://www.pdmu.edu.ua/</a> , provides basic information about its activities and an available electronic resource, which contains educational and methodological materials for components of the educational-professional program, including in the distance learning system. Distance learning at the University has been developed in connection with the implementation of videoconferencing technologies, including the Lync 2010 software suite, TrueConf, and the POLYCOM QDX-600 hardware and software complex.
<b>9. Academic mobility</b>	
<b>National Credit Mobility</b>	The right to national credit mobility is exercised on the basis of the Law of Ukraine “On Higher Education” and agreements between higher educational institutions (scientific institutions) of Ukraine, or their main structural units.
<b>International Credit Mobility</b>	The right to international credit mobility is implemented on the basis of international agreements on cooperation in education and research, international programs and projects (Erasmus+), and can also be exercised by a Ukrainian participant of the educational process on their own initiative, supported by Poltava State Medical University, where he works/studies, based on individual invitations
<b>Training of Foreign Applicants for Higher Education</b>	Admission to study of foreign citizens and persons without citizenship is carried out in accordance with the “Rules of admission to Poltava State Medical University” on the basis of the results of their training at the preparatory department. Training of foreign applicants for higher education and persons without citizenship is carried out in accordance with the “Regulations on the organization of the educational process” at Poltava State Medical University”.

## 2. The List of components of academic and professional program and their logical sequence

### 2.1. The list of components of academic and professional program

Code	Components of the academic and professional program (academic disciplines, practices)	Number of credits ECTS	Form of final control
1	2	3	4
<b>Compulsory components of APP</b>			
<b>General training cycle</b>			
CC 1.	Ukrainian Language (for Professional Purposes)	3	FMC
CC 2.	Philosophy	3	FMC
CC 3.	History of Ukraine	3	FMC
CC 4.	Health Security; Fundamentals of Bioethics and Biosafety. Occupational Safety	3	FMC
CC 5.	Fundamentals of Higher Education Pedagogy	3	FMC
CC 6.	Latin Language and Medical Terminology	3	FMC
CC 7.	Medical Biology	5	Exam
CC 8.	Medical and Biological Physics. Modern Information Technologies in Dentistry	4	FMC
CC 9.	Fundamentals of Cybersecurity and Cyber Hygiene	3	FMC
CC 10.	Medical Chemistry	3	FMC
CC 11.	Human Anatomy	11	Exam
CC 12.	Histology, Cytology and Embryology	7	Exam
CC 13.	Foreign Language for Professional Purposes	6	FMC
CC 14.	Biological and Bioorganic Chemistry	8	Exam
CC 15.	Physiology	6	Exam
CC 16.	Microbiology, Virology and Immunology	5	Exam
<b>Total for the cycle</b>		<b>76</b>	
<b>Cycle of professional training</b>			
CC 17.	Hygiene and Ecology	3	FMC
CC 18.	Propedeutics of Dentistry	12	OSPE
CC 19.	Pathomorphology	6	Exam
CC 20.	Pathophysiology	6	Exam
CC 21.	Pharmacology	6	Exam

CC 22.	Reserve Officers Training in “Healthcare” field of knowledge. Specialty “Dentistry”*	3	FMC
CC 23.	Ukrainian as a Foreign Language for Professional Purposes**	3**	FMC
CC 24.	Fundamentals of Tactical Medicine	3	FMC
CC 25.	Surgery	4	FMC
CC 26.	Forensic Medicine (Dentistry). Medical Law of Ukraine	3	FMC
CC 27.	Social Medicine, Healthcare and Fundamentals of Evidence-Based Medicine with the basics of modern Scientific Research	3	FMC
CC 28.	Internal Medicine	6	FMC
CC 29.	General Medical Training	7	FMC
CC 30.	Therapeutic Dentistry	18	Exam
CC 31.	Oral Surgery	16	Exam
CC 32.	Prosthetic Dentistry	16	Exam
CC 33.	Pediatric Therapeutic Dentistry	12	Exam
CC 34.	Pediatric Oral Surgery	7	FMC
CC 35.	Orthodontics	9	Exam
CC 36.	Obstetrics and Pediatrics	3	FMC
CC 37.	Emergency and Critical Medical Care	3	FMC
CC 38.	Management and Marketing in Dentistry	3	FMC
<b>Total for the cycle</b>		<b>149</b>	

<b>Cycle of practical training</b>			
CC 39.	Training Practice	6	FMC
CC 40.	Clinical Training (practice training) 3rd year practice	10	FMC
CC 41.	Clinical Training (practice training) 4th year practice	15	FMC
CC 42.	Clinical Training (practice training) 5th year practice	11	FMC
<b>Total for the cycle</b>		<b>42</b>	
<b>Total amount of compulsory components</b>		<b>267</b>	
<b>Elective components APP</b>			
<b>Elective choice cycle</b>			
EC 1.	Basic General Military Training (Theoretical Training)	3	differentiated credit
EC 2.	Democracy: Philosophy and Mechanisms	3	Credit test
EC 3.	History of Medicine	3	Credit test

EC 4.	Foreign Language (English)	3	Credit test
EC 5.	Chemical and Physicochemical Research Methods in Medicine	3	Credit test
EC 6.	Ukrainian as a Foreign language of Basic Level	3	Credit test
EC 7.	Academic Writing	3	Credit test
EC 8.	Fundamentals of Leadership	3	Credit test
EC 9.	Professional Communications. Key Competencies	3	Credit test
EC 10.	Law Science	3	Credit test
EC 11.	Methodology of Modern Scientific Research	3	Credit test
EC 12.	Ukrainian Professional Communication: Doctor – Patient	3	Credit test
EC 13.	Key Aspects of Evidence-Based Medicine in Dentistry	3	Credit test
EC 14.	International Humanitarian Law	3	Credit test
EC 15.	Current Issues in Molecular Biology	3	Credit test
EC 16.	Fundamentals of Nutrition Science	3	Credit test
EC 17.	Main Technologies for Denture Manufacturing	3	Credit test
EC 18.	Deontology in Medicine	3	Credit test
EC 19.	Fundamentals of General and Medical Psychology	3	Credit test
EC 20.	Phantom Course of Modern Technologies for Odontopathology Treatment	3	Credit test
EC 21.	Integrative Physiology Course	3	Credit test
EC 22.	Dermatology, Venereology	3	Credit test
EC 23.	Normal Anatomy: Integrated Course	3	Credit test
EC 24.	Modern Aspects of Special Histology	3	Credit test
EC 25.	Integrated Course: Modern Achievements in Experimental and Clinical Pathology	3	Credit test
EC 26.	Applied aspects of Biochemistry	3	Credit test
EC 27.	Integrated English Language Course for Professional Purposes	3	Credit test
EC 28.	Practical and Theoretical Aspects of Microbiology	3	Credit test
EC 29.	Integrated Course in Physiological Disciplines	3	Credit test
EC 30.	Integrated Course in Morphological Disciplines	3	Credit test
EC 31.	Side Effects of Medications	3	Credit test
EC 32.	Phthiology	3	Credit test
EC 33.	Biostatistics and Clinical Epidemiology	3	Credit test
EC 34.	Prevention of Smoking, Drug Addiction, Alcoholism	3	Credit test

EC 35.	Fundamentals of Psychotherapy in Dental Practice	3	Credit test
EC 36.	Plastic and Reconstructive surgery	3	Credit test
EC 37.	Modern Technologies for the Application of Fixed Orthodontic Appliances	3	Credit test
EC 38.	Surgical preparation of the Oral Cavity for Prosthetic Restoration	3	Credit test
EC 39.	Radiology	3	Credit test
EC 40.	Integrated Course: Theoretical Foundations of Clinical Dentistry	3	Credit test
EC 41.	Clinical Biochemistry of the Oral Cavity	3	Credit test
EC 42.	Oral Cavity Secretions	3	Credit test
EC 43.	Combined endo-, resto-, perio-	3	Credit test
EC 44.	Practical and Simulation Course in Surgical Anatomy of the Head and Neck	3	Credit test
EC 45.	Endodontic Techniques in Pediatric Dentistry	3	Credit test
EC 46.	Modern Technologies in Implantology	3	Credit test
EC 47.	Current Approaches to Diagnosis and Treatment of Dysontogenetic Pathology of the Maxillofacial Area	3	Credit test
EC 48.	Fundamentals of Immunoprophylaxis of Infectious Diseases	3	Credit test
EC 49.	Oral Manifestations of Infectious Diseases	3	Credit test
EC 50.	Pain Syndromes in Neurostomatology	3	Credit test
EC 51.	Modern Strategies in Clinical Anatomy and Operative Surgery	3	Credit test
EC 52.	Techniques for Typical Surgical Procedures in the Head and Neck Areas	3	Credit test
EC 53.	Modern Approaches to Treating Patients with Dento-facial Abnormalities using Fixed Orthodontic Appliances	3	Credit test
EC 54.	Orthodontic Component in the Treatment of Patients with Periodontal Diseases	3	Credit test
EC 55.	Modern Technologies of Full-Dast Dental Prosthetic Treatment and Aesthetic Restoration of Teeth	3	Credit test
EC 56.	Endoscopic Technologies in Otorhinolaryngology	3	Credit test
EC 57.	Phytotherapy for Dental Diseases	3	Credit test
EC 58.	Pharmacology of Biologically Active Supplements in Dentistry	3	Credit test
EC 59.	Periodontal Plastic and Mucogingival Surgery	3	Credit test
EC 60.	Fundamentals of Digital Dentistry, modern methods of Computerised Radiological Diagnostics	3	Credit test

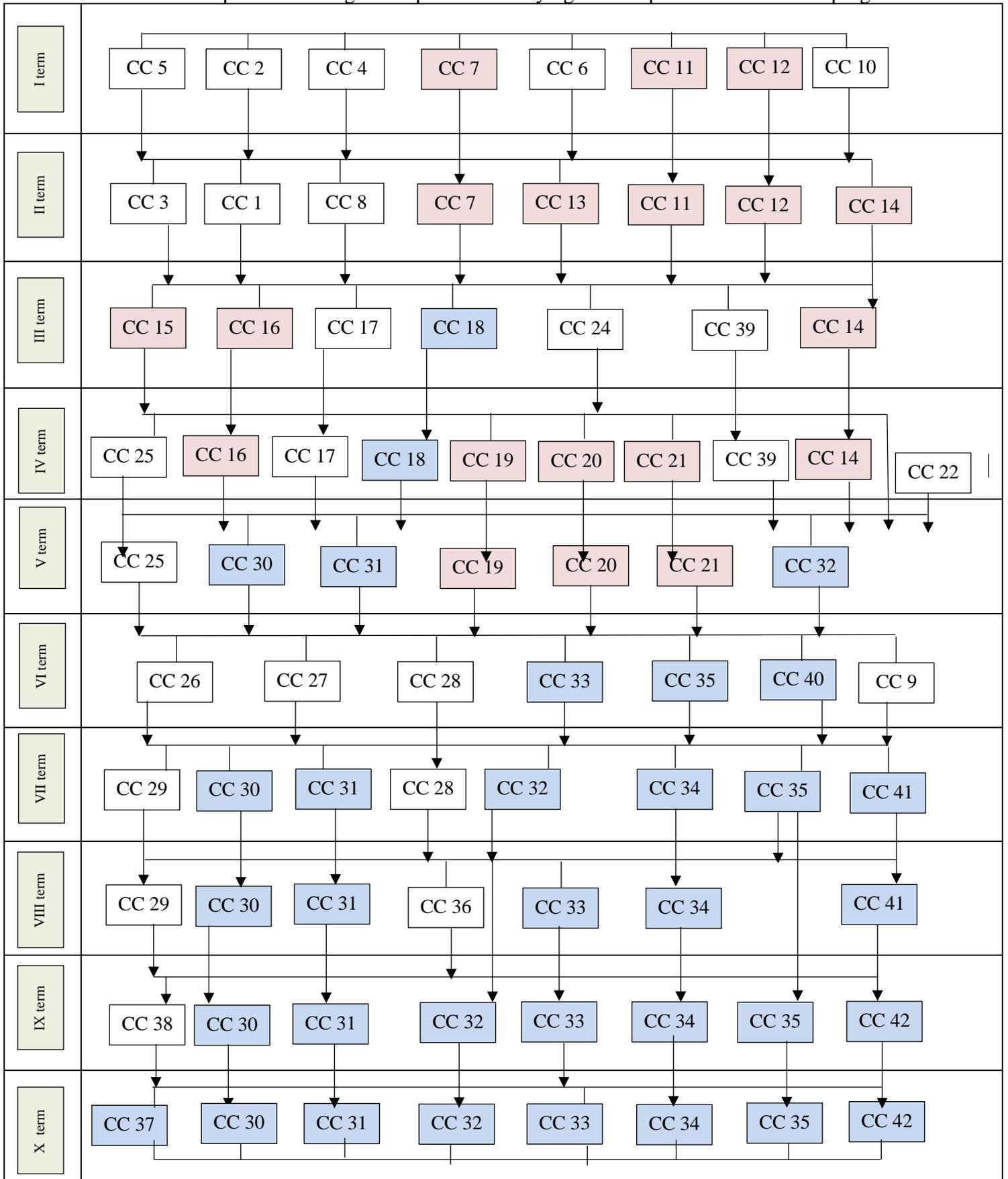
EC 61.	Ukrainian Studies	3	Credit test
EC 62.	Current Issues in Medical Biology	3	Credit test
EC 63.	Modern Digital Technologies in Prosthetic Dentistry	3	Credit test
<b>Total amount of elective components</b>		<b>33</b>	
Physical Education			
Certification			
TOTAL VOLUME OF THE ACADEMIC AND PROFESSIONAL PROGRAM including compulsory components (89%) elective components (11%)		<b>300</b>	

\* CC 22. Reserve Officers Training in I“Health and Social Care” field of knowledge. Specialty II “Dentistry” is provided for higher education applicants, citizens of Ukraine in the amount of 3 ECTS credits.

\*\* CC 23. Ukrainian as a Foreign Language for Professional Purposes\*\* is provided for foreign higher education applicants and stateless persons in the amount of 3 ECTS credits.

### 1.1. Structural and logical chart of academic program

A brief description of the logical sequence of studying the components of academic program



- CC, included in the integrated exam "Krok 1. Dentistry"
- CC, included in the integrated exam "Krok 2. Dentistry"

### 3. Form of Certification of Graduates

<b>Certification Format</b>	Certification is carried out as a Unified State Qualification Exam (USQE) for the Dentistry specialty in accordance with Ukrainian legislation.
<b>Requirements for Unified State Qualification Examination</b>	<p>The USQE is conducted in accordance with the “Procedure for Conducting the Unified State Qualification Examination for the Master's Degree in Specialties of the field of knowledge “Health Care and Social Care” and includes the following components:</p> <ul style="list-style-type: none"> <li>• Integrated test exam “KROK”, which evaluates compliance of the quality of training with national higher education standards and is conducted by the State Non-Profit Enterprise “<i>Testing Board for Professional Competence Assessment of Higher Education Graduates in Medicine and Pharmacy under the Ministry of Health of Ukraine</i>”;</li> <li>• English for Specific Purposes (ESP) exam, which assesses the professionally-oriented English language competence of higher education students and is conducted by the State Non-Profit Enterprise “<i>Testing Board for Professional Competence Assessment of Higher Education Graduates in Medicine and Pharmacy under the Ministry of Health of Ukraine</i>”;</li> <li>• Objective Structured Practical (Clinical) Examination (OSP(C)E), which assesses a graduate’s readiness to engage in professional activity in accordance with Higher Education Standards by demonstrating practical (clinical) components of professional competence on a real subject or a model, and is conducted by the authorized institutions and the University Examination Board.</li> </ul>
<b>Criteria for Awarding Professional Qualification</b>	<p>A professional qualification is awarded to a student under the following conditions:</p> <ul style="list-style-type: none"> <li>• determination of the <b>minimum required level of achievement of learning outcomes</b> for making a decision on awarding professional qualifications to students;</li> <li>• determination of the <b>requirements for the scope and content of practical experience</b> to be acquired during the student's practical training;</li> <li>• determination of the <b>requirements for the confirmation of acquired practical experience and competencies</b> by the student.</li> </ul> <p>Decision-making regarding compliance with the minimum level of achievement:</p> <ul style="list-style-type: none"> <li>– If a student has achieved the <b>threshold level</b> for each specified program learning outcome, they are considered to have met the <b>minimum required level</b>;</li> <li>– if the student fails to achieve the threshold level for even one of the learning outcomes, the professional qualification is not awarded, or the student may be offered an additional period to achieve the required learning outcomes.</li> </ul> <p>Selection of assessment methods and procedures: A comprehensive approach is used, incorporating various assessment methods, including:</p> <ul style="list-style-type: none"> <li>- Examination;</li> </ul>

	<ul style="list-style-type: none"><li>- Practical tasks (clinical cases, simulation scenarios);</li><li>- Presentations, project or case defenses;</li><li>- Final attestation (USQE).</li></ul> <p>The requirements and procedure for awarding a professional qualification to higher education students upon completion of the educational program are governed by the Regulations on the Procedure for Awarding Professional Qualifications at Poltava State Medical University.</p>
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The certification procedure is completed by the issuance of a state-recognized diploma, awarding the graduate the Master's degree in Dentistry and the professional qualification of Dentistry Doctor. The certification procedure is open and public.

**4. Matrix of Correspondence between Program Competencies and  
Components of the Academic and Professional Program**

	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11	CC12	CC13	CC14	CC15	OK16	CC17	CC18	CC19	CC20	CC21	CC22
GC1		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		+	+	+	
GC2	+				+	+			+		+	+	+	+	+	+	+	+	+	+	+	
GC3	+			+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	
GC4	+	+	+			+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
GC5											+	+	+	+	+	+			+	+	+	
GC6				+	+						+	+						+				+
GC7	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+
GC8				+																		+
GC9		+			+		+		+	+							+		+	+	+	+
GC10		+	+				+	+	+				+									+
GC11													+					+				+
GC12				+						+				+		+	+					
GC13					+																	
GC14	+	+	+			+	+	+														+
GC15	+		+		+	+		+			+	+			+	+	+					+
GC16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

	CC 23	CC 24	CC 25	CC 26	CC 27	CC 28	CC 29	CC 30	CC 31	CC 32	CC 33	CC 34	CC 35	CC 36	CC 37	CC 38	CC 39	CC 40	CC 41	CC 42
GC1	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC2	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
GC 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 4	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 5				+	+	+	+	+	+	+	+	+	+			+				
GC 6				+	+	+	+	+	+	+	+	+	+			+	+	+	+	+
GC 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 8		+	+	+				+	+	+	+	+	+	+	+		+	+	+	+
GC 9			+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 10				+				+	+	+	+	+	+	+	+	+				
GC 11		+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+
GC 12					+															
GC 13					+	+	+	+	+	+	+	+	+	+	+					
GC 14	+			+	+															
GC 15	+				+	+	+	+	+	+	+	+	+							
GC 16	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21	CC 22
SC1	+	+	+	+				+			+	+	+	+	+	+	+				+	
SC2		+					+	+		+	+	+	+	+	+	+	+		+	+	+	
SC3						+	+	+			+	+				+			+	+		+
SC4	+						+			+				+	+	+		+			+	
SC5														+	+	+			+	+	+	
SC6					+					+							+					
SC7														+	+	+						
SC8								+		+	+							+				
SC9								+								+		+			+	
SC10																						+
SC 11											+										+	+
SC 12														+		+	+	+				
SC 13				+			+		+	+				+	+	+	+		+	+		
SC 14	+	+	+	+		+						+	+						+	+		
SC 15	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+		
SC 16																						
SC 17	+	+	+			+			+				+									+
SC 18																						+

	CC 23	CC 24	CC 25	CC26	CC 27	CC 28	CC 29	CC 30	CC 31	CC 32	CC 33	CC 34	CC 35	CC 36	CC 37	CC 38	CC 39	CC 40	CC 41	CC 42
SC1	+		+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+
SC2			+	+		+	+	+	+	+	+	+	+	+				+	+	+
SC3		+	+			+	+	+	+	+	+	+	+	+	+			+	+	+
SC4	+							+	+	+	+	+	+					+	+	+
SC5								+	+	+	+	+	+					+	+	+
SC6								+	+	+	+	+	+					+	+	+
SC7			+			+	+	+	+	+	+	+	+	+				+	+	+
SC8			+			+	+	+	+	+	+	+	+	+	+		+	+	+	+
SC9								+	+	+	+	+	+					+	+	+
SC10		+	+			+	+							+	+					
SC11		+				+	+	+	+	+	+	+	+	+	+		+	+	+	+
SC12					+			+	+	+	+	+	+					+	+	+
SC13					+											+				
SC14	+			+	+	+	+	+	+	+	+	+	+			+	+	+	+	+
SC15	+			+	+	+	+									+				
SC16								+	+	+	+	+	+				+	+	+	+
SC17	+			+	+											+				
SC18		+	+												+		+			

**5. Matrix of Correspondence between Program Learning Outcomes (PLOs) and Relevant Components of the Academic and Professional Program**

	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11	CC12	CC13	CC14	CC15	CC16	CC17	CC18	CC19	CC20	CC21	CC22
PLO 1						+	+				+	+		+	+	+		+	+	+		
PLO 2				+			+	+		+	+	+		+	+	+		+	+	+		
PLO 3							+	+				+		+	+	+			+	+		
PLO 4		+																	+	+		
PLO 5																						+
PLO 6																		+			+	
PLO 7				+												+	+	+			+	
PLO 8																						
PLO 9																						
PLO10																						
PLO 11																		+			+	+
PLO 12																						+
PLO 13																					+	+
PLO 14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+
PLO 15				+					+	+								+				
PLO 16	+	+	+		+	+			+				+				+					

PLO 17	+	+	+		+				+				+				+	+				+	
PLO 18	+	+	+	+	+	+			+				+										
PLO 19	+		+	+	+	+			+				+										
PLO 20					+												+	+				+	+
PLO 21												+						+					
PLO 22																		+					
PLO 23																							
PLO 24																							
PLO 25							+	+		+	+	+		+	+	+				+	+	+	

	CC 23	CC 24	CC 25	CC26	CC27	CC28	CC29	CC30	CC31	CC32	CC33	CC34	CC35	CC36	CC37	CC38	CC39	CC40	CC41	CC42
PLO 1								+	+	+	+	+	+					+	+	+
PLO 2			+			+	+	+	+	+	+	+	+	+			+	+	+	+
PLO 3								+	+	+	+	+	+					+	+	+
PLO 4				+				+	+	+	+	+	+					+	+	+
PLO 5		+	+			+	+							+	+					
PLO 6								+	+	+	+	+	+					+	+	+
PLO 7								+	+	+	+	+	+					+	+	+
PLO 8								+	+	+	+	+	+					+	+	+

PLO 9					+	+	+	+	+	+	+	+	+	+						
PLO 10			+			+	+	+	+	+	+	+	+	+				+	+	+
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PLO 25						+	+													

**Guarantor of the Program:**  
 Doctor of Medical Sciences, Professor



**Olha SHESHUKOVA**

## 1. APPENDIX

### List 1 (syndromes and symptoms)

1. anodontia
2. anemia
3. malocclusion
4. facial asymmetry
5. atrophy
6. painful dysfunction of the TMJ
7. pain in the heart area
8. toothache
9. abdominal pain
10. pain in the soft tissues of the maxillofacial area
11. pain in the facial bones
12. loss of consciousness
13. loss of clinical attachment
14. hypermobility of the articular head of the TMJ
15. hemorrhagic syndrome
16. hyperesthesia
17. hypersalivation
18. headache
19. rhinophonia (open, closed)
20. deviation of the mandible, destruction of the bone tissue
21. defects of the crown of the tooth
22. deformation of the bones of the facial skeleton
23. bite deformation
24. discoloration of teeth
25. facial disproportion
26. jaundice
27. dyspnea and asphyxia
28. inflammatory infiltrate of the tissues of the maxillofacial area
29. vertigo
30. discoloration of the skin, mucous membranes of the mouth
31. change in the shape of the teeth
32. change in the interalveolar height
33. elements of lesion on the skin and mucous membranes of the oral cavity
34. convergence (divergence) of teeth
35. xerostomia
36. fever
37. lymphadenopathy
38. macroglossia
39. macrocheilia
40. maceration of the corners of the mouth
41. meningeal syndrome
42. edematous syndrome
43. dental deposits
44. fistulous passage
45. restricted mouth opening
46. paresis, paralysis of the nerves of the maxillofacial localization
47. burning of the mucous membrane
48. pathological abrasion of teeth
49. disrupted movements of the lower jaw
50. taste disturbance
51. disrupted sensitivity of the tissues of the maxillofacial area
52. dysfunction of sucking, swallowing pathological mobility of teeth
53. tumors and tumor-like neoplasms in the maxillofacial area
54. gum recession
55. mobility of bone fragments of the facial skeleton
56. thinning of the cortical plate of the jaws
57. "emptying-filling"
58. partial and complete teeth loss
59. fluctuation
60. chemosis
61. cyanosis (diffuse and local)
62. slit defects of the face, syndrome of I- II branchial arch
63. gingival, periodontal, bone pocket

## List 2 (Dental Diseases)

### 1. Therapeutic Dentistry:

#### A) Non-carious lesions of hard dental tissues:

1. Hypersensitivity
2. Enamel hypoplasia, hyperplasia
3. Fluorosis
4. Tooth hard tissue erosion
5. Wedge-shaped defect
6. Tooth wear
7. Necrosis of hard dental tissues
8. Tooth discoloration
9. Traumatic dental injuries

#### B) Caries and its complications:

10. Dental caries
11. Pulpitis
12. Periodontitis

#### C) Periodontal diseases:

13. Papillitis
14. Gingivitis (localized, generalized)
15. Periodontitis (localized, generalized)
16. Periodontosis
17. Idiopathic periodontal diseases

#### D) Diseases of the oral mucosa (OM):

18. Traumatic lesions of the OM
19. Autoinfectious OM diseases (acute aphthous stomatitis, herpetic, ulcerative-necrotic, candidal lesions)
20. Secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhoea)
21. OM diseases associated with dermatoses with autoimmune pathogenesis (pemphigus, lichen planus, lupus erythematosus)
22. OM changes in allergic conditions
23. OM changes due to heavy metal salt intoxication
24. Symptomatic viral diseases (AIDS, influenza, foot-and-mouth disease, infectious mononucleosis)
25. Symptomatic OM manifestations of gastrointestinal diseases (peptic ulcer, gastritis, enteritis, colitis, chronic hepatitis)
26. Symptomatic OM manifestations of cardiovascular diseases (circulatory insufficiency, essential hypertension)
27. Symptomatic OM manifestations of endocrine disorders (acromegaly, Cushing's syndrome, diabetes mellitus, hyper- and hypothyroidism)
28. Symptomatic OM manifestations of blood disorders (anemias, thrombocytopenic purpura, leukemias)
29. Symptomatic OM manifestations of hypo- and avitaminosis
30. Diseases and anomalies of the tongue (desquamative glossitis, rhomboid glossitis, fissured tongue, hairy tongue)
31. Neurogenic tongue diseases (glossalgia, stomatodynia, ganglionitis)
32. Independent and symptomatic cheilitis (actinic, meteorological, contact allergic, glandular, exfoliative, eczematous, atopic)

**E) Oral mucosa and lip vermilion precancerous conditions:**

33. Obligatory precancerous conditions (Bowen's disease, verrucous precancer, limited precancerous hyperkeratosis, Manganotti's cheilitis)
34. Facultative precancerous conditions

**2. Pediatric Dentistry:**

**A) Dental pathology:**

35. Enamel hypoplasia (systemic and local)
36. Endemic fluorosis
37. Congenital malformations of hard dental tissues in children
38. Caries and its complications in primary and permanent teeth in children
39. Traumatic dental injuries

**B) Periodontal pathology:**

40. Gingivitis
41. Idiopathic periodontal diseases
42. Periodontitis

**C) Pathology of the oral mucosa:**

43. Allergic diseases of the oral mucosa
44. Anomalies and diseases of the tongue
45. Fungal lesions of the oral mucosa in children
46. Changes in the oral mucosa in systemic diseases
47. Changes in the oral mucosa in specific diseases
48. Manifestations of acute viral and infectious diseases on the oral mucosa (diphtheria, chickenpox, measles, infectious mononucleosis, scarlet fever)
49. Viral diseases of the oral mucosa (acute herpetic stomatitis, recurrent herpetic stomatitis, shingles)
50. Primary and secondary cheilitis, glossitis

**D) Inflammatory diseases of the maxillofacial region:**

51. Periostitis
52. Osteomyelitis of the jaws
53. Diseases of the temporomandibular joint (TMJ)
54. Diseases of the salivary glands
55. Lymphadenitis
56. Non-odontogenic inflammatory processes of soft tissues (furuncle, carbuncle, erysipelas)
57. Specific inflammatory processes (tuberculosis, syphilis, actinomycosis)
58. Phlegmons and abscesses

**E) Injuries to the maxillofacial region:**

59. Injuries to soft tissues (wounds, burns), teeth, jaws, facial bones, and TMJ

**F) Tumors and tumor-like formations of the maxillofacial region:**

60. Benign tumors and tumor-like formations of soft tissues and facial bones
61. Malignant tumors of soft tissues and facial bones

**G) Congenital facial malformations:**

62. Clefts of the upper lip, alveolar process, hard and soft palate (isolated and complete)
63. Anomalies of soft tissue attachments in the oral cavity (frenula of the lips and tongue, shallow

oral vestibule)

64. Congenital syndromes

#### **H) diseases of the TMJ, ankylosis**

### **3. Surgical Dentistry:**

#### **A) Inflammatory diseases of the maxillofacial region:**

65. Deep and superficial phlegmons, abscesses

66. Lymphadenitis

67. Neuritis of the trigeminal and facial nerves, neuralgias

68. Non-odontogenic inflammatory processes

69. Odontogenic sinusitis

70. Periodontitis, periapical periodontitis, alveolitis, periostitis, osteomyelitis, pericoronitis

71. Inflammatory diseases of the salivary glands

72. Specific inflammatory processes (tuberculosis, syphilis, actinomycosis)

#### **B) Injuries of the maxillofacial region:**

73. Injuries of teeth and facial bones

74. Injuries of soft tissues, tongue, and oral mucosa

75. Gunshot and non-gunshot injuries of maxillofacial tissues; cranio-maxillofacial injuries

76. Thermal, chemical, electrical, and radiation injuries of maxillofacial tissues; combined trauma

#### **C) Diseases of the temporomandibular joint:**

77. Arthritis, arthro-arthroses, arthroses

78. Ankylosis

79. TMJ dysfunctions, dislocations, and contractures of the mandible

#### **D) Tumors and tumor-like lesions of the oral mucosa, salivary glands, soft tissues of the maxillofacial area and neck, and facial bones:**

80. Benign tumors and tumor-like formations

81. Precancerous diseases and malignant tumors of the oral mucosa, salivary glands, soft tissues of the maxillofacial localization and neck, bones of the facial skeleton

#### **E) Congenital and acquired defects and deformations of the tissues of the head and neck**

82. Congenital anomalies of teeth development, deformities of the jaws, defects and deformations of the bones of the facial skeleton, combined anomalies and deformations of the cerebral and facial skeletons and dentoalveolar system

83. Congenital defects and deformities of the soft tissues of the head and neck

84. acquired defects and deformations of soft tissues of the maxillofacial localization and neck, bones of the facial skeleton

85. Age-related changes in the soft tissues of the face and neck, vertical and horizontal atrophy of the alveolar processes of the jaw bones, adentia, gum recession

86. Cosmetic defects and deformations of organs and tissues of the head and neck

#### **F) Dysplastic diseases of maxillofacial localization**

87. Dystrophic diseases of periodontal tissues

88. Sialosis

89. Dysplastic diseases of the soft tissues of the head and neck

### **G) Neurostomatological diseases:**

90. Neuritis, trigeminal neuralgia

### **4. Prosthetic Dentistry:**

91. Partial loss of teeth

a) Distally limited defects of the dentition

b) Distally unlimited defects of the dentition

92. Complete loss of teeth

93. Excessive abrasion of teeth

94. Defects of the crown of the teeth

95. Complete destruction of the crown of the tooth

96. Dentoalveolar deformities

97. Parafunctions of the masticatory muscles

98. Traumatic occlusion

99. Injuries and defects of the jaws, nose, ears, orbits, combined defects

100. TMJ diseases

101. TMJ dysfunctions

### **5. Orthodontics**

#### **A) abnormalities of individual teeth:**

102. Sizes

103. Shapes

104. Number

105. Retention

#### **B) abnormalities of the position of teeth:**

106. Diastemas and tremas

107. Teeth crowding

108. Torsion

109. Vestibulo-oral position of teeth, dystopia, transposition, supra-infraposition

#### **C) sagittal occlusion abnormalities:**

110. Progenia (mesial) (skeletal, dentoalveolar)

111. Prognathia (distal) (skeletal, dentoalveolar)

#### **D) vertical occlusion abnormalities:**

112. Open (skeletal, dental alveolar)

113. Deep (skeletal, dentoalveolar)

#### **E) transverse occlusion abnormalities:**

114. Cross-sectional (unilateral or bilateral, with or without displacement of the mandible) (skeletal, dentoalveolar)

### **List 2.1 (major dental diseases)**

1. Non-carious lesions of teeth

2. Caries of temporary and permanent teeth

3. Pulp diseases of temporary and permanent teeth

4. Periodontitis of temporary and permanent teeth

5. Papillitis

6. Gingivitis
7. Periodontitis
8. Parodontosis
9. Traumatic injuries
10. Autoinfectious diseases of the oral mucosa (acute aphthous stomatitis, herpetic, ulcerative and necrotic, candidal lesions of the oral mucosa)
11. Secondary bacterial diseases (diphtheria, tuberculosis, syphilis, gonorrhoea)
12. Manifestations of immunodeficiency conditions on the oral mucosa (AIDS)
13. Allergic lesions
14. Alveolitis
15. Pericoronaritis
16. Periostitis
17. Lymphadenitis
18. Traumatic injuries of the soft tissues of the face
19. Acute and habitual dislocation of the lower jaw
20. Uncomplicated fractures of the upper and lower jaws
21. Defects of the crown part of teeth
22. Partial and complete absence of teeth

**List 3. Physiological conditions and somatic diseases requiring special patient management tactics.**

**A) Physiological conditions:**

1. pregnancy

**B) Diseases of the blood and blood-forming organs:**

2. anemia
3. hemophilia
4. leukemia
5. thrombocytopenic purpura

**C) Cardiovascular diseases:**

6. hypertension
7. infectious endocarditis
8. heart defects
9. heart failure
10. cardiac arrhythmia
11. the presence of a pacemaker

**D) Mental disorders:**

12. acute psychosis, including alcoholic delirium
13. epilepsy

**E) Diseases of the respiratory system and mediastinum:**

14. bronchial asthma

**F) Pathology of the ENT organs:**

15. tonsillitis
16. rhinitis

17. sinusitis

18. nasal septum deviation

**G) Diseases of the endocrine system:**

19. diabetes mellitus
20. thyroid diseases

**H) Pathology of the musculoskeletal system and connective tissue:**

21. systemic vasculitis (hemorrhagic vasculitis)
22. rheumatoid arthritis
23. posture disorders

**I) Infectious and parasitic diseases:**

24. HIV / AIDS
25. viral hepatitis
26. diphtheria
27. tetanus
28. anthrax
29. tuberculosis of different localization
30. cholera
31. plague
32. gonorrhoea
33. syphilis

#### **List 4 (Emergency conditions):**

1. Asphyxia (including that of newborns)
2. Hypertensive crisis
3. Acute respiratory failure
4. Acute heart failure
5. Acute poisoning
6. Acute abdomen
7. Electrical injury
8. Unconsciousness
9. External bleeding
10. Collapse
11. Coma
12. Edema of the larynx
13. Angioedema
14. Burns and frostbite
15. Convulsions
16. Drowning
17. Physiological delivery
18. Shock
19. Bone injury

#### **List 5 (Laboratory and Instrumental Investigations):**

1. Analysis of soft tissue and bone tumor aspirates
2. Histomorphological examination of biopsies from lymph nodes, salivary glands, mucous membranes, and soft tissues
3. Blood glucose level analysis
4. Study of diagnostic cast models of the jaws
5. Evaluation of orofacial functions (respiration, swallowing, speech, mastication, and temporomandibular joint)
6. Complete blood count
7. General urinalysis
8. Blood biochemical analysis
9. Immunological testing in dental diseases
10. Coagulation profile analysis
11. Interpretation of radiographic diagnostics of the skull, dentoalveolar system, and salivary glands
12. Cytological examination of organs and tissues of the dentoalveolar system
13. Microbiological analysis of oral fluid, mucosal and periodontal swabs
14. Functional diagnostics of the oral cavity (fluorescent method, reoparodontography, stomatoscopy, capillaroscopy, vacuum test, etc.)

#### **List 6 (Medical Procedures):**

1. Perform artificial respiration
2. Perform indirect cardiac massage
3. Stabilize the tongue
4. Provide temporary hemostasis for external bleeding
5. Perform initial surgical wound debridement

6. Conduct gastric and intestinal lavage
7. Apply transport immobilization
8. Administer medication via injection (intramuscular, subcutaneous, intravenous bolus and drip infusion)
9. Measure blood pressure
10. Perform initial neonatal care
11. Determine blood group and Rh factor

#### **List 7 (Dental Procedures):**

1. Alveolotomy
2. Pulp amputation in primary and permanent teeth
3. Anthropometric analysis of jaw models
4. Selective tooth grinding, occlusal surface leveling, occlusogram, periodontal charting
5. Fabrication of temporary splints and splinting for fractured teeth, alveolar processes, and jaws
6. Removal of dental deposits
7. Assessment of enamel acid resistance (Enamel Resistance Test, Saliva Conductivity (SCT) Test, Comprehensive Assessment of Resistance to Acid Erosion (CARE) Test)
8. Determination and registration of centric relation
9. Evaluation of Tsilinsky's symptom
10. Determination of functional occlusion
11. Measurement of sagittal gap
12. Determination of the vertical dimension
13. Identification of signs of an orthognathic bite and its variations
14. Identification of signs of pathological bite types
15. Reduction of mandibular dislocation
16. Fissure sealing
17. Diagnostic use of dyes
18. Diathermocoagulation
19. Pulp extirpation of primary and permanent teeth
20. Electroodontodiagnostics
21. Use of topical agents in the treatment of periodontal and oral mucosa diseases
22. Local anesthesia in dental treatments using various methods (topical, infiltration, conduction)
23. Removal of artificial crowns
24. Tooth-preserving surgical interventions for periodontitis
25. Hemostasis after tooth extraction
26. Deep fluoridation of hard tissues of primary teeth
27. Adjustment of partial and complete removable dentures
28. Adjustment and activation of removable orthodontic appliances
29. Socket curettage
30. Curettage of periodontal pockets
31. Medicinal treatment of affected areas of the oral mucosa and periodontium
32. Application and removal of temporary fillings and sealing dressings in the treatment of caries, pulpitis, periodontitis
33. Application of a rubber dam
34. Application of maxillofacial appliances (repositioning, shaping, replacing, and fixing devices)
35. Root canal obturation of primary and permanent teeth with various materials
36. Taking anatomical and functional impressions using various impression materials
37. Making jaw models

38. Taking impressions from intraosseous implants
39. Paralleling in planning the design of a partial denture framework
40. Checking the denture construction in partial and complete absence of teeth
41. Periostotomy
42. Filling of carious cavities of primary and permanent teeth using various restorative materials
43. Coating of teeth with therapeutic and prophylactic varnishes, gels, desensitizers
44. Preparation of teeth for metal stamped, plastic solid, solid combined, metal-free crown
45. Preparation of teeth for inlays and veneers
46. Preparation and cleaning of root canals of temporary and permanent teeth
47. Preparation of the root of the tooth under the pin structure
48. Preparation of carious cavities in temporary and permanent teeth, taking into account the type of filling material
49. Fitting different types of artificial crowns
50. Conducting intradental electrophoresis
51. Ligature fixation of teeth
52. Carrying out professional hygiene of an oral cavity
53. Carrying out professional hygiene in the area of implants
54. Conducting physiological separation
55. Conducting periodontal probing
56. Direct and indirect pulp coating
57. Registration of the position of the upper jaw with the help of the facial arch
58. Incision of periodontal abscess
59. Incision and excision of the hood in pericoronaritis
60. Compilation of the algorithm for individual oral hygiene
61. Temporary immobilization for fractures of the jaws
62. Typical and atypical removal of temporary and permanent teeth
63. Cystotomy
64. Fixation of crowns and bridge-like dentures
65. Fixation of an orthodontic ring, a crown
66. Fixation of the central ratio in II, III, IV groups of defects
67. Surgical treatment of wounds of soft facial tissues within one anatomical area
68. Grinding and polishing of fillings made of all kinds of fillings materials