



**PRIVATE HIGHER EDUCATION INSTITUTION
“INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE”**

**EDUCATIONAL AND PROFESSIONAL PROGRAM
“DENTISTRY”**

**Second (Master's) level of higher education
Specialty I1 “Dentistry”
Field of knowledge I “Healthcare and Social Welfare”
Educational qualification: Master of Dentistry
Professional qualification: Dentist**

APPROVED

Decisions of the Academic Council
International Academy of Ecology and Medicine
(Minutes No. 1 dated May 28, 2026)

ENACTED

by order of the Acting Rector
of International Academy of Ecology and Medicine
No. 1/01-OD dated 28 May, 2026



Ivan SAVYTSKYI

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL PROGRAM

1 – GENERAL INFORMATION	
Full Name of the Higher Education Institution and Structural Units Providing the Program	PRIVATE HIGHER EDUCATION INSTITUTION “INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE”
Higher Education Level	Second (Master's) Level
Higher Education Degree	Master
Field of Knowledge	I Healthcare and Social Welfare
Specialty	I1 Dentistry
Mode of Study	Full-time
Educational Qualification	Master of Dentistry
Qualification Stated in the Diploma	Higher Education Degree – Master; Specialty – I1 Dentistry; Professional Qualification – Dentist
Official Title of the Educational Program	Educational and Professional Program “Dentistry”
Volume of the Educational Program and Diploma Type	The volume required to obtain a Master's degree in specialty I1 Dentistry on the basis of complete general secondary education is 300 ECTS credits. Duration of study: 4 years and 10 months (5 academic years). Master's Diploma, single; 300 ECTS credits.
Accreditation	Certificate of accreditation of the educational program issued by the National Agency for Quality Assurance of Higher Education, No 19619 dated 13.01.2026
Program Cycle/Level	QF-EHEA – Second Cycle; EQF-LLL – Level 7; NQF of Ukraine – Level 7
Admission Requirements	Availability of a certificate of complete general secondary education (based on certificates of external independent assessment/or entrance examinations).
Language(s) of Instruction	Ukrainian, English
Validity Period of the Educational Program	Until 30 June 2031, with the possibility of annual updates (if necessary)
Permanent URL of the Educational and Professional Program Description	https://maem.edu.ua/en/educational-and-professional-programs/
2 – PURPOSE OF THE EDUCATIONAL PROGRAM	

Training of highly qualified professionals capable of solving complex healthcare tasks and problems, particularly in dentistry. The program focuses on forming the deep theoretical knowledge, practical skills and skills necessary to implement the prevention, diagnosis and treatment of dental diseases at the individual, family and population levels. Particular emphasis is placed on the development of professional ethics, the ability to communicate with patients, and civic awareness. The educational process integrates modern scientific achievements, innovative approaches, and interdisciplinary cooperation to ensure professional competence and adaptation to uncertainty.

3 – CHARACTERISTICS OF THE EDUCATIONAL PROGRAM

Subject Area (Field of Knowledge, Specialty)	Field of knowledge: I Healthcare and Social Welfare Specialty: I1 Dentistry
	<i>The subjects of the study are:</i> human health, particularly dentistry, and the processes involved in its maintenance, the prevention, diagnosis and treatment of dental diseases; the functioning of organs and tissues of the oral cavity and the maxillofacial area at the individual, family and population levels, as well as the environmental impact on their condition. The educational and professional program focuses on the formation of a specialist dentist capable of solving complex professional healthcare tasks, particularly in the context of current challenges. The program is aimed at training a specialist who possesses modern knowledge, practical skills, methods of prevention, diagnosis and treatment of dental diseases. The main emphasis is on the integration of theory and practice, the development of the ability to make informed decisions in accordance with medical standards, ethical and legal requirements. <i>The theoretical content of the subject area:</i> covers knowledge of the humanities, fundamental, clinical sciences and disciplines related to health. In particular, it explores the principles of anatomy, physiology, pathology, prevention, diagnosis and treatment of dental diseases, as well as the foundations of dental care at the individual, family and population levels. The programme involves understanding the impact of different factors on dental health, integrating modern evidence-based approaches and standards of medical practice to the professional activity of a dentist. <i>Methods, methodologies, technologies and tools:</i> Methods, techniques, technologies, and tools: functional diagnostic methods used in accordance with modern medical protocols. Dental diagnostics, treatment and prevention technologies are used, as well as methods for managing and organizing medical processes. The toolkit includes state-of-the-art diagnostic and therapeutic tools, equipment, dental equipment, and devices that allow practicing skills and performing professional manipulations in accordance with medical care quality standards.
Orientation of the Educational Program	The orientation of the educational program is educational and professional, with an applied focus on providing professional training in the field of dentistry. The program is focused on the integration of modern evidence-based knowledge and practical skills in the process of training specialists capable of acting effectively in the conditions of medical practice. Particular emphasis

	is placed on the theoretical foundations and practical aspects of dental care, taking into account modern advances in dental science, innovative methods of diagnosis, treatment and prevention, as well as compliance with the Ukrainian Higher Education Standard.
Main Focus of the Educational Program	The program provides the ability to conduct a diagnostic process, identify leading symptoms and syndromes, establish a preliminary and final clinical diagnosis, perform differential diagnostics, and plan treatments in accordance with modern standards. Particular attention is paid to informed decision-making, the application of innovative methods, and the integration of evidence-based medicine into dental practice.
Program Features	The educational program provides students with comprehensive theoretical and practical training that enables graduates to attain the professional qualifications required for work in dentistry. Theoretical training covers core disciplines such as anatomy, physiology, pathophysiology, and pharmacology, together with specialized courses that provide an in-depth understanding of health and disease mechanisms in the dentofacial system. The program is delivered by highly qualified professionals and incorporates evidence-based approaches and modern teaching methods. Practical training is a core component of the program and enables students to gain direct experience in clinical settings. Students undertake placements at clinics, where they provide care to patients under the supervision of experienced mentors. Intensive practical classes enable them to acquire the skills required for successful professional practice in dentistry. The program also offers opportunities for international academic mobility. Students may participate in exchanges with other universities and medical education institutions, broadening their professional outlook and gaining additional knowledge in dentistry. International cooperation enables emerging professionals to improve their skills and work in accordance with international medical standards.
4 – GRADUATES’ EMPLOYABILITY AND FURTHER STUDY	
Employability	Specialist trained to work under CWED DC 009:2010: Section Q. Health and social assistance Chapter 86. Protecting Your Health Group 86.2 Medicine and dental practice Class 86.23 Dental practice After completing the educational and professional program in the specialty Dentistry the specialist is able to perform professional work: medical internship (CP code 3229); medical trainee (CP code 3221); resident physician (CP code is specified in accordance with the current classifier).
Further Study	After completion of the program, students have the opportunity to continue their studies at different stages and in

	different areas of professional activity. One of the main options is an internship or residency that allows graduates to obtain specialized qualifications in certain areas of dentistry, such as surgery, orthodontics, periodontology, or restorative dentistry. The internship and residency programs provide an opportunity to immerse themselves even deeper in the profession, gain practical skills at different stages of treatment, and increase the level of expertise. In addition, graduates can continue their postgraduate studies to obtain a degree. This gives them the opportunity to conduct research in dentistry, develop new treatments, and participate in scientific projects. Many dentists become faculty members at medical universities or engage in clinical research after obtaining their degree. In addition to academic development, there is the opportunity to participate in a variety of qualification courses and specialized training that allow dentists to improve their skills, become familiar with new technologies and innovative treatments. This allows them to maintain a high level of professionalism and stay up to date with current trends in dentistry.
5 – TEACHING AND ASSESSMENT	
Teaching and Learning	Lectures, practical classes, practical training (introductory and clinical placements), and assessment activities. Acquisition of skills in anamnestic, clinical, laboratory, and instrumental methods of the diagnostic process; identification of leading symptoms and syndromes; establishment of preliminary and clinical diagnoses; and application of diagnostic, treatment, prevention, healthcare management, and organizational technologies. Research activities. Competency-based, student-centered, problem-based learning and self-directed study.
Assessment	Achievement of program learning outcomes is assessed in accordance with the Regulations on the Assessment of the Learning Activities of Higher Education Students at the International Academy of Ecology and Medicine. Assessment uses the ECTS grading system, a 200-point scale, and the national grading scale. All types of classroom and extracurricular learning activities are assessed. The grades “Excellent”, “Good”, “Satisfactory”, and “Unsatisfactory” are awarded for examinations, differentiated tests, and practical training. The grade “Pass/Fail” is awarded for tests. The result “Pass” is awarded for the components of the Unified State Qualification Examination: the KROK 1 integrated test examination, the English for Professional Purposes examination, KROK 2, the Objective Structured Clinical (Practical) Examination, and the international examination in the fundamentals of medicine.
6 – PROGRAM COMPETENCIES	
Integral Competency	The ability to solve complex healthcare tasks and problems in the specialty Dentistry in a professional activity or in a training process involving research and/or innovation and characterized by uncertainty of conditions and requirements.

General Competencies (GC)	GC 1. Ability to think abstractly, analyze and synthesize. GC 2. Knowledge and understanding of the subject area and understanding of professional activity. GC 3. Ability to apply knowledge in practical activities. GC 4. Ability to communicate in the official language both verbally and in writing. GC 5. Ability to communicate in English GC 6. Skills in the use of information and communication technologies. GC 7. Ability to search, process and analyze information from various sources. GC 8. Ability to adapt and act in a new situation. GC 9. Ability to identify, address and solve problems. GC 10. The ability to be critical and self-critical. GC 11. Ability to work as a team. GC 12. The desire to protect the environment. GC 13. Ability to act socially responsible and consciously. GC 14. Ability to exercise its rights and duties as a member of society, to become aware of the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human rights and freedoms and citizenship in Ukraine. GC 15. The ability to preserve and reproduce moral, cultural, scientific values and achievements of society based on an understanding of the history and legality of the development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, to use different forms and forms of movement.
Professional Competencies (PC)	PC 1. Ability to collect medical information about the patient and analyze clinical data. PC 2. Ability to interpret the results of laboratory and instrumental studies. PC 3. Ability to diagnose: to identify prior, clinical, final, concomitant diagnosis, emergency conditions. PC 4. Ability to plan and implement preventive measures for diseases of organs and tissues of the oral cavity and facial area. PC 5. Capacity to design the medical care process: define approaches, plan, types and principles for the treatment of diseases of organs and tissues of the oral cavity and mucous membrane. PC 6. Ability to determine the rational regimen of work, rest, diet in patients in the treatment of diseases of the organs and tissues of the oral cavity and the facial area. PC 7. Ability to determine the management tactics of patients with diseases of the oral cavity and maxillofacial tissues and organs with associated somatic diseases. PC 8. Ability to perform medical and dental manipulations. PC 9. Ability to treat basic diseases of the organs and tissues of the oral cavity and facial area. PC 10. Ability to organize and carry out medical evacuation activities. PC 11. Ability to identify tactics, methods and emergency medical care delivery. PC 12. Ability to organize and conduct a dental screening.

	PC 13. Ability to assess the impact of the environment on the health status of the population (individual, family, population). PC 14. Ability to maintain regulatory medical records. PC 15. Processing of government, social and medical information. PC 16. Ability to organise and conduct rehabilitation activities and care in patients with diseases of the oral cavity and maxillofacial region. PC 17. The ability to legally support one's own professional activity. PC 18. Ability to provide pre-medical care in accordance with tactical medicine protocols.
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7 – PROGRAM LEARNING OUTCOMES

PLO 1. To distinguish and identify the leading clinical symptoms and syndromes (list 1); using standard methods, using prior patient history data, patient examination data, knowledge of the person, his organs and systems, establish a predictable nosological or syndromic prior clinical diagnosis of dental disease (list 2).

PLO 2. Collect information on the general condition of the patient, evaluate the psychomotor and physical development of the patient, the condition of the organs of the maxillofacial region, evaluate information on diagnosis based on the results of laboratory and instrumental studies (list 5).

PLO 3. To designate and analyze additional (compulsory and optional) examination methods (laboratory, x-ray, functional and/or instrumental) in List 5, patients with diseases of the organs and tissues of the oral cavity and the maxillofacial area for differential diagnosis of diseases (list 2).

PLO 4. Determine the final clinical diagnosis in compliance with relevant ethical and legal norms, by making an informed decision and logical analysis of the subjective and objective clinical data obtained, by additional examination, by conducting differential diagnostics under the supervision of the supervising physician in a medical facility (list 2.1).

PLO 5. To diagnose emergencies under any circumstances (at home, on the street, in a medical facility), in an emergency situation, a state of war, a lack of information and limited time (listed 4).

PLO 6. Planning and implementing dental disease prevention measures among the population to prevent the spread of dental disease.

PLO 7. Analyze the epidemiological status and implement measures for the mass and individual, general and local medicinal and non-medical prevention of dental diseases.

PLO 8. Determine the approach, plan, type and principle of treatment of dental disease (list 2) by making an informed decision based on existing algorithms and standard schemes.

PLO 9. Determine the nature of the work, rest and dietary requirements in the treatment of dental diseases (list 2) based on a prior or final clinical diagnosis by making an informed decision based on existing algorithms and standard schemes.

PLO 10. Specify the dental patient management tactics for somatic pathology (list 3) by making an informed decision based on existing algorithms and standard schemes.

PLO 11. Conduct treatment of major dental diseases according to existing algorithms and standard schemes under the supervision of the supervising physician in a medical facility (list 2.1).

PLO 12. To organise medical evacuation activities among the population, military personnel, in an emergency situation, including a state of war, during the deployed stages of medical evacuation, taking into account the existing medical evacuation system.

PLO 13. Determine the tactics of providing emergency medical care using the recommended algorithms, under any circumstances, on the basis of a short-term emergency diagnosis (list 4).

PLO 14. Analyze and evaluate governmental, social and medical information using standard approaches and computer information technology.

PLO 15. Assess the impact of the environment on the health status of the population in a medical facility by standard methods.

PLO 16. To set goals and define the structure of personal activities based on the analysis of specific social and personal needs.

PLO 17. Maintain a healthy lifestyle, exercise self-regulation and self-control.

PLO 18. To raise awareness and guidance in their activities on civil rights, freedoms and obligations, to raise the cultural level of general education.

PLO 19. Adhere to the requirements of ethics, bioethics and deontology in its professional activities.

PLO 20. Organise the necessary level of individual safety (of owners and dependents) in the event of typical hazardous situations in the individual field of activity.

PLO 21. Perform medical manipulations on the basis of a preliminary and/or final clinical diagnosis (list 2.2.1) for different populations and under different conditions (listed 6).

PLO 22. Perform medical dental manipulations on the basis of a preliminary and/or final clinical diagnosis (list 2.2.1) for different populations and under different conditions (listed 7).

PLO 23. Perform emergency medical care manipulation using standard schemes under any circumstances on the basis of a diagnosis of an emergency (list 4) within a limited time (list 6.7).

8 – RESOURCES FOR PROGRAM IMPLEMENTATION

Staffing	The educational and professional program is delivered by academic staff who possess the appropriate qualifications, academic degrees and/or academic titles, and a demonstrated level of scholarly and professional activity.
Facilities and Equipment	The International Academy of Ecology and Medicine has the facilities and equipment required to provide educational activities in specialty I1 Dentistry. Teaching premises provide at least 2.4 m ² per person, in compliance with the Licensing Conditions for Educational Activities. All classrooms are equipped with multimedia equipment, including laptops, multimedia projectors and screens, Jamboard interactive displays, and Oculus Quest virtual reality headsets. Dedicated teaching rooms and facilities include an anatomy theatre, chemistry and histology rooms, simulation classrooms, computer laboratories, and foreign-language classrooms. Practical skills are developed at clinical training sites.
Information and Teaching and Learning Resources	Information and teaching and learning resources for the “Dentist” educational program include modern educational technologies, online resources, electronic textbooks, scholarly databases, and multimedia tools. The program provides access to clinical cases and interactive platforms for simulation and distance learning, enabling students to receive up-to-date training consistent with international medical standards. All participants in the educational process receive the information and teaching and learning materials required under the Licensing Conditions for Educational Activities. Teaching aids, methodological guidelines, laboratory work, video lectures, and online consultations with instructors are used to maintain a high standard of education. These resources integrate theoretical knowledge with practical skills and adapt the learning process to students’ needs and the requirements of contemporary medical practice. Educational activities are delivered in accordance with the curriculum. Each educational component is supported by appropriate teaching and learning materials, including a course syllabus and methodological guidelines. The library maintains the necessary collection of scholarly and educational literature in Ukrainian and English, including manuals, textbooks, and monographs authored by leading

	international scholars and the Academy's academic staff. Access is also provided to electronic periodicals through the electronic library and repository. Participants in the educational process additionally have access to electronic periodicals in the specialty through the State Scientific and Technical Library in Kyiv: https://dntb.gtv.ua/ .
9 – ACADEMIC MOBILITY	
National Credit Mobility	National credit mobility is implemented pursuant to the Law of Ukraine "On Higher Education" and agreements between the International Academy of Ecology and Medicine and higher education institutions (research institutions) of Ukraine. The national academic mobility program focuses primarily on introductory and clinical placements for higher education students. Experience-sharing programs concerning implementation of the "Dentistry" educational program are planned for students and academic staff.
International Credit Mobility	International credit mobility is implemented in accordance with applicable legislation and the IAEM Regulations on the Exercise of the Right to Academic Mobility by Participants in the Educational Process.
Education of International Students	International students are educated in accordance with legal requirements, within the licensed capacity of the accredited educational programs.

2.1. LIST OF EDUCATIONAL PROGRAM COMPONENTS

Component Code	Components of the educational program (teaching disciplines, practices)	Number of Credits	Form of Final Assessment
1	2	3	4
1. Compulsory Educational Components of the Educational Program			
1.1.General (Social Sciences and Humanities) Training			
CC 1 / CC 1 (i)	English for Professional Purposes / Ukrainian as a Foreign Language (for International Students)	6,0	Graded Test
CC 2	Ukrainian for Professional Purposes	3,0	Graded Test
CC 3	History of Ukraine and Medicine	1,0	Pass/Fail Test
1.2.Fundamental (Natural Sciences) Training			
CC 4	Latin Language and Medical Terminology	3,0	Graded Test
CC 5	Medical Biology	3,0	Exam
CC 6	Medical Chemistry	3,0	Graded Test
CC 7	Biological and Bioorganic Chemistry	7,0	Graded Test
CC 8	Physical Foundations of Medicine and Digital Technologies	4,5	Exam
CC 9	Human Anatomy	12,0	Exam
CC 10	Histology, Cytology and Embryology	6,0	Exam
CC 11	Physiology	7,0	Exam
CC 12	Microbiology, Virology and Immunology	5,0	Exam
1.3.Professional Training			
CC 13	Pathomorphology	6,0	Exam
CC 14	Pathophysiology	5,0	Exam
CC 15	Pharmacology	6,0	Exam
CC 16	Hygiene and Ecology	3,0	Graded Test
CC 17	Propaedeutics of Internal Medicine	1,5	Graded Test
CC 18	Propaedeutics of Restorative Dentistry	3,5	Graded Test
CC 19	Propaedeutics of Prosthodontics	3,5	Graded Test
CC 20	Propaedeutics of Pediatric Restorative Dentistry	3,0	Graded Test
CC 21	Internal Medicine (Including Infectious Diseases, Clinical Pharmacology and Endocrinology)	4,0	Graded Test
CC 22	Surgery (Including Oncology and Neurosurgery)	5,0	Pass/Fail Test
CC 23	Social Medicine and Public Health	1,5	Pass/Fail Test
CC 24	Prevention of Dental Diseases	2,5	Exam
CC 25	Restorative Dentistry	18,5	Exam
CC 26	Oral Surgery	16,5	Exam
CC 27	Prosthodontics	16,5	Exam
CC 28	Orthodontics	7,5	Exam
CC 29	Pediatric Restorative Dentistry	8,0	Exam
CC 30	Pediatric Oral Surgery	4,0	Exam
CC 31	Implant Dentistry	4,0	Graded Test
CC 32	Otorhinolaryngology	2,0	Pass/Fail Test
1.4.General Medical Training			
CC 33	Dermatology and Venereology	1,0	Pass/Fail Test

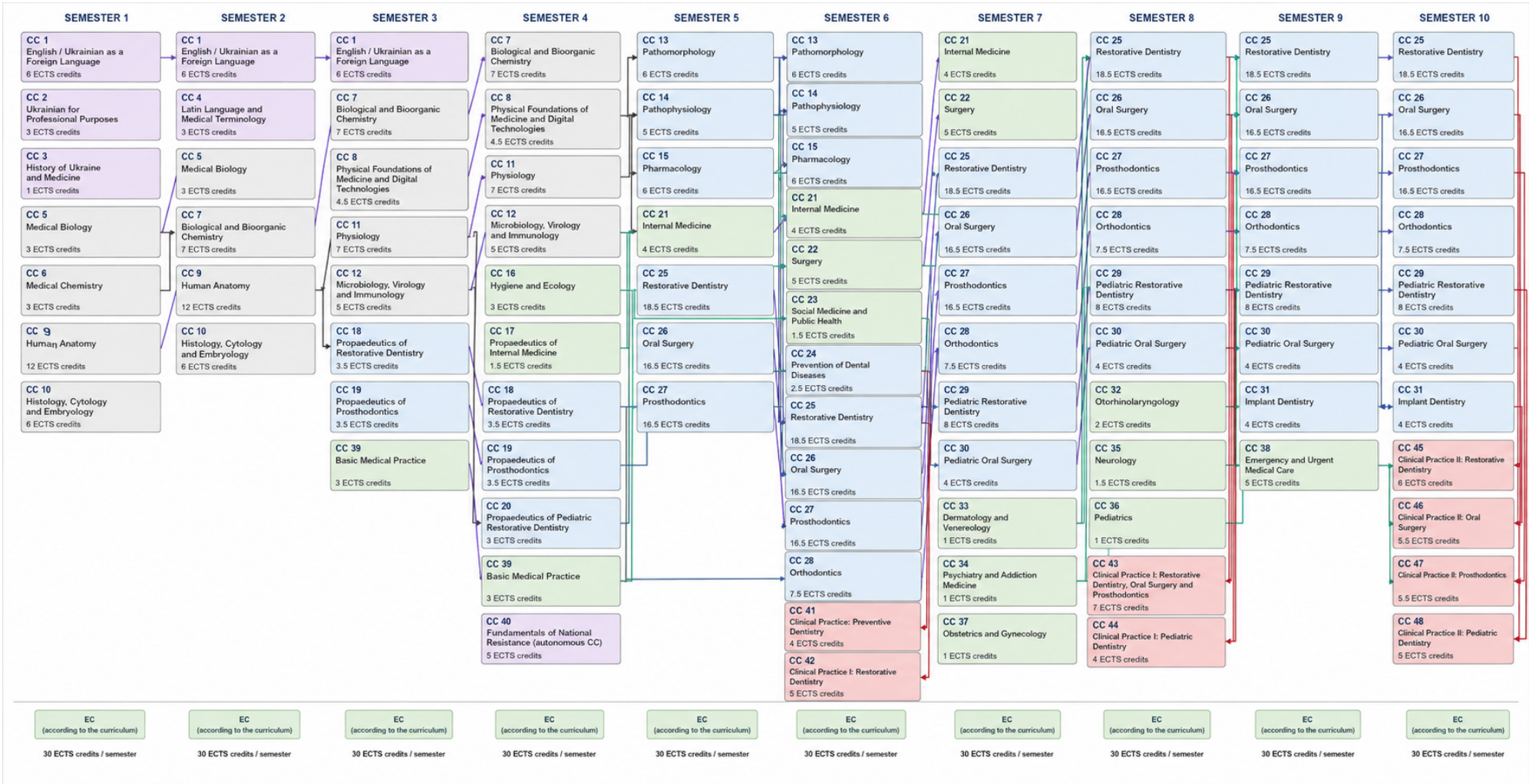
Component Code	Components of the educational program (teaching disciplines, practices)	Number of Credits	Form of Final Assessment
1	2	3	4
CC 34	Psychiatry and Addiction Medicine	1,0	Pass/Fail Test
CC 35	Neurology	1,5	Pass/Fail Test
CC 36	Pediatrics	1,0	Pass/Fail Test
CC 37	Obstetrics and Gynecology	1,0	Pass/Fail Test
CC 38	Emergency and Urgent Medical Care	5,0	Pass/Fail Test
CC 39	Basic Medical Practice	3,0	Pass/Fail Test
CC 40	Fundamentals of National Resistance*	5,0	Graded Test
1.5. Practical Training			
CC 41	Clinical Practice in the Prevention of Dental Diseases	4,0	Graded Test
CC 42	Clinical Practice I in Restorative Dentistry	5,0	Graded Test
CC 43	Clinical Practice I in Restorative Dentistry, Oral Surgery and Prosthodontics	7,0	Graded Test
CC 44	Clinical Practice I in Pediatric Dentistry	4,0	Graded Test
CC 45	Clinical Practice II in Restorative Dentistry	6,0	Graded Test
CC 46	Clinical Practice II in Oral Surgery	5,5	Graded Test
CC 47	Clinical Practice II in Prosthodontics	5,5	Graded Test
CC 48	Clinical Practice II in Pediatric Dentistry	5,0	Graded Test
Total Volume of Practical Training		42,0	×
Total Volume of Compulsory Components		242,5	×
2. Elective Educational Components of the Educational Program****			
EC	Elective Components Defined by the Student's Individual Study Plan	57,5	Pass/Fail Test
Total Volume of Elective Components		57,5	×
Total Volume of the Educational and Professional Program		300,0	×

* CC 40 “Fundamentals of National Resistance” is studied by citizens of Ukraine in accordance with the legal requirements governing the organization of such training. For international students, the corresponding study load is provided through the alternative educational component “Life Safety, Occupational Safety and Civil Protection with a Tactical Medicine Course”, amounting to 5 ECTS credits, while retaining the same form of final assessment and focus on achieving the relevant program learning outcomes.

** Higher education applicants make their selection in accordance with the Regulation on the exercise by higher education applicants of the right to form an individual educational trajectory. <https://education.maem.edu.ua/elective-disciplines/>.

2.2. STRUCTURAL AND LOGICAL SCHEME OF THE EDUCATIONAL PROGRAM

The structural and logical scheme of the educational program reflects the consistent formation of general and special competencies and achievement of program learning outcomes: from mastery of general education, natural science and fundamental dental components to diagnostic, counseling and practical training.



3. FORMS OF CERTIFICATION OF HIGHER EDUCATION STUDENTS

Certification of students at the second (Master's) level of higher education under the educational and professional program in specialty II "Dentistry" is carried out in the form of the Unified State Qualification Examination (USQE). The procedure is established by Resolution of the Cabinet of Ministers of Ukraine No. 334 dated 28 March 2018 "On Approval of the Procedure for Conducting the Unified State Qualification Examination for Students Pursuing a Master's Degree in Specialties within Field of Knowledge 22 Healthcare".

The Unified State Qualification Examination is conducted in accordance with the Procedure for Conducting the Unified State Qualification Examination for students pursuing a Master's degree in specialties within field of knowledge I Healthcare and Social Welfare and consists of the following components:

- an integrated test KROK, which assesses the quality of the training of specialists to the standards of higher education and is carried out by the DO Center of Professional Competence Testing of Specialists in Higher Education in the fields of training Medicine and Pharmacy at the Ministry of Health of Ukraine (hereinafter the Testing Centre at the Ministry of Health of Ukraine) in accordance with the Regulations on the Licensing System of Integrated Examinations;

- a vocational English language examination, which assesses the student's proficiency in professional English and is conducted by the Testing Centre of the Ministry of Health of Ukraine;

- an objective structured practical (clinical) examination that assesses the graduate's readiness to pursue professional activity in accordance with the requirements of the higher education standard by demonstrating the practical (clinical) components of professional competence on a real subject or on a model and is conducted by the examination board of the higher education institution.

APPENDIX 1

List 1 (Syndromes and Symptoms)

1. anemia
2. malocclusion
3. facial asymmetry
4. pain during mandibular movements
5. precordial pain
6. toothache
7. abdominal pain
8. pain in the soft tissues of the maxillofacial region
9. pain in the facial bones
10. loss of consciousness
11. loss of the dentogingival epithelial attachment
12. hemorrhagic syndrome
13. hyperesthesia
14. hypersalivation
15. headache
16. rhinolalia (open or closed)
17. defects of the coronal portion of a tooth
18. deformity of the facial skeleton
19. malocclusion
20. jaundice
21. dyspnea and asphyxia
22. dizziness
23. tooth discoloration
24. discoloration of the skin and oral mucosa
25. change in the interalveolar height
26. convergence of teeth
27. fever
28. lymphadenopathy
29. macrocheilia
30. maceration of the corners of the mouth
31. meningeal syndrome
32. edema syndrome
33. dental deposits
34. inflammatory, cuff-like, or tumor-like infiltrate in the maxillofacial region
35. lesions of the skin and oral mucosa
36. periodontal pocket
37. cleft defects of the face
38. paresis or paralysis of nerves in the maxillofacial region
39. impaired mandibular movements
40. facial disproportion
41. taste disturbance
42. sensory impairment of the tissues of the maxillofacial region
43. tumors and tumor-like lesions of the maxillofacial region
44. fistulous tract
45. mobility of facial bone fragments
46. pathological tooth mobility
47. gingival recession
48. parchment-crackling sign
49. dryness of the oral mucosa
50. partial or complete loss of teeth
51. fluctuation
52. cyanosis (diffuse or localized)

List 2 (Dental Diseases)

1. Restorative Dentistry

A) Non-carious Lesions of Dental Hard Tissues:

1. hyperesthesia
2. enamel hypoplasia and hyperplasia
3. fluorosis
4. erosion of dental hard tissues
5. wedge-shaped defect
6. pathological tooth wear
7. necrosis of dental hard tissues
8. tooth discoloration
9. traumatic dental injuries

B) Dental Caries and Its Complications:

10. dental caries
11. pulpitis
12. apical periodontitis

C) Periodontal Diseases:

13. papillitis
14. gingivitis (localized or generalized)
15. periodontitis (localized or generalized)
16. periodontal disease (periodontosis)
17. idiopathic periodontal diseases

D) Diseases of the Oral Mucosa:

18. traumatic lesions of the oral mucosa
19. autoinfectious diseases of the oral mucosa (acute aphthous stomatitis; herpetic, ulcerative-necrotic, and candidal lesions)
20. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, and gonorrhea)
21. oral mucosal diseases associated with dermatoses with an autoimmune component (pemphigus, lichen planus, and lupus erythematosus)
22. oral mucosal changes in allergic conditions
23. oral mucosal changes due to heavy-metal salt intoxication
24. symptomatic viral diseases (HIV/AIDS, influenza, foot-and-mouth disease, and infectious mononucleosis)
25. oral manifestations of gastrointestinal diseases (peptic ulcer disease, gastritis, enteritis, colitis, and chronic hepatitis)
26. oral manifestations of cardiovascular diseases (circulatory insufficiency and essential arterial hypertension)
27. oral manifestations of endocrine diseases (acromegaly, Cushing syndrome, diabetes mellitus, hyperthyroidism, and hypothyroidism)
28. oral manifestations of blood diseases (anemia, thrombocytopenic purpura, and leukemia)
29. oral manifestations of hypovitaminosis and avitaminosis
30. diseases and anomalies of the tongue (geographic tongue, median rhomboid glossitis, fissured tongue, and hairy tongue)
31. neurogenic disorders of the tongue (glossalgia, stomalgia, and ganglionitis)
32. primary and symptomatic cheilitis (actinic, meteorological, allergic contact, glandular, exfoliative, eczematous, and atopic), precancerous hyperkeratosis, and Manganotti cheilitis

E) Precancerous Lesions of the Oral Mucosa and Vermilion Border:

33. obligate precancerous lesions (Bowen disease, verrucous precancer, and localized hyperkeratosis)
34. facultative precancerous lesions

2. Pediatric Dentistry

A) Dental Pathology:

- 35. enamel hypoplasia (systemic or localized)
- 36. endemic fluorosis
- 37. congenital developmental defects of dental hard 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) Oral Mucosal Pathology:

- 43. allergic diseases of the oral mucosa
- 44. anomalies and diseases of the tongue
- 45. fungal lesions of the oral mucosa in children
- 46. oral mucosal changes in systemic diseases
- 47. oral mucosal changes in specific diseases
- 48. oral manifestations of acute viral and infectious diseases (diphtheria, chickenpox, measles, infectious mononucleosis, and scarlet fever)
- 49. viral diseases of the oral mucosa (acute herpetic stomatitis, recurrent herpetic stomatitis, and herpes zoster)
- 50. primary and symptomatic cheilitis and glossitis

D) Inflammatory Diseases of the Maxillofacial Region:

- 51. periostitis
- 52. temporomandibular joint diseases
- 53. salivary gland diseases
- 54. lymphadenitis
- 55. non-odontogenic inflammatory diseases of soft tissues (furuncle, carbuncle, and erysipelas)
- 56. osteomyelitis of the jaws
- 57. specific inflammatory diseases (tuberculosis, syphilis, and actinomycosis)
- 58. phlegmons and abscesses

E) Maxillofacial Trauma:

- 59. injuries to soft tissues (wounds and burns), teeth, jaws, and facial bones

F) Tumors and Tumor-like Lesions of the Maxillofacial Region:

- 60. benign tumors and tumor-like lesions of soft tissues and facial bones
- 61. malignant tumors of soft tissues and facial bones

G) Congenital Facial Malformations:

- 62. cleft upper lip, alveolar process, and hard and soft palate (isolated or complete)
- 63. anomalies of oral soft-tissue attachment (labial and lingual frenula and a shallow oral vestibule)
- 64. congenital syndromes

H) Temporomandibular Joint Diseases and Ankylosis

3. Oral Surgery

A) Inflammatory Diseases of the Maxillofacial Region:

- 65. deep and superficial phlegmons and abscesses
- 66. lymphadenitis
- 67. neuritis of the trigeminal and facial nerves; neuralgia
- 68. non-odontogenic inflammatory diseases
- 69. odontogenic maxillary sinusitis
- 70. periodontitis, apical periodontitis, alveolitis, periostitis, osteomyelitis, and pericoronitis
- 71. inflammatory diseases of the salivary glands
- 72. specific inflammatory diseases (tuberculosis, syphilis, and actinomycosis)

B) Maxillofacial Trauma:

- 73. injuries to the teeth and facial bones
- 74. injuries to the soft tissues, tongue, and oral mucosa
- 75. gunshot and non-gunshot injuries of the maxillofacial region; cranio-maxillofacial injuries
- 76. thermal, chemical, electrical, and radiation injuries of the maxillofacial region; combined trauma

C) Temporomandibular Joint Diseases:

- 77. arthritis, arthroarthritis, and arthrosis
- 78. ankylosis
- 79. temporomandibular joint dysfunction; mandibular dislocations and contractures

D) Tumors and Tumor-like Lesions of the Oral Mucosa, Salivary Glands, Soft Tissues of the Maxillofacial Region and Neck, and Facial Bones:

- 80. benign tumors and tumor-like lesions of the oral mucosa, salivary glands, soft tissues of the maxillofacial region and neck, and facial bones
- 81. precancerous diseases and malignant tumors of the oral mucosa, salivary glands, soft tissues of the maxillofacial region and neck, and facial bones

E) Congenital and Acquired Defects and Deformities of the Head and Neck:

- 82. dental developmental anomalies; congenital jaw deformities; defects and deformities of the facial skeleton; combined anomalies and deformities of the cranial and facial skeleton and dentofacial system
- 83. congenital defects and deformities of the soft tissues of the head and neck
- 84. acquired defects and deformities of the soft tissues of the maxillofacial region and neck and 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; anodontia; gingival recession
- 86. cosmetic defects and deformities of the organs and tissues of the head and neck

F) Dysplastic Diseases of the Maxillofacial Region:

- 87. dystrophic periodontal diseases
- 88. sialoses
- 89. dysplastic diseases of the soft tissues of the head and neck

G) Neurostomatological Diseases:

- 90. trigeminal neuritis and neuralgia

4. Prosthodontics

- 91. partial loss of teeth
 - a) bounded edentulous spaces
 - b) free-end edentulous spaces
- 92. complete loss of teeth
- 93. excessive (pathological) tooth wear
- 94. defects of the coronal portions of teeth
- 95. complete destruction of the clinical crown of a tooth
- 96. secondary dentoalveolar deformities

- 97. parafunctions of the masticatory muscles
- 98. bruxism
- 99. injuries and defects of the jaws, nose, ear, and orbit; combined defects
- 100. temporomandibular joint diseases
- 101. temporomandibular joint dysfunction

5. Orthodontics

A) Anomalies of Individual Teeth:

- 102. abnormal tooth size
- 103. abnormal tooth shape
- 104. abnormal number of teeth
- 105. tooth impaction

B) Tooth-position Anomalies:

- 106. diastemata and tremata
- 107. dental crowding
- 108. tooth rotation (tortioanomaly)
- 109. vestibulo-oral tooth position, ectopia, impaction, supraocclusion, or infraocclusion

C) Sagittal Malocclusions:

- 110. mandibular prognathism (mesial occlusion), skeletal or dentoalveolar
- 111. maxillary prognathism (distal occlusion), skeletal or dentoalveolar

D) Vertical Malocclusions:

- 112. open bite, skeletal or dentoalveolar
- 113. deep bite, skeletal or dentoalveolar

E) Transverse Malocclusions:

- 114. crossbite (unilateral or bilateral, with or without mandibular displacement), skeletal or dentoalveolar

List 2.1 (Major Dental Diseases)

- 1. non-carious lesions of dental hard tissues
- 2. caries of primary and permanent teeth
- 3. diseases of the pulp of primary and permanent teeth

4. apical periodontitis of primary and permanent teeth
5. papillitis
6. gingivitis
7. periodontitis
8. periodontal disease (periodontosis)
9. traumatic injuries
10. autoinfectious diseases of the oral mucosa (acute aphthous stomatitis; herpetic, ulcerative-necrotic, and candidal lesions)
11. secondary bacterial diseases (diphtheria, tuberculosis, syphilis, and gonorrhea)
12. oral manifestations of immunodeficiency (HIV/AIDS)
13. allergic lesions
14. alveolitis
15. pericoronitis
16. periostitis
17. lymphadenitis
18. traumatic injuries to the facial soft tissues
19. acute and recurrent mandibular dislocation
20. uncomplicated fractures of the maxilla and mandible
21. defects of the coronal portions of teeth
22. partial and complete loss of teeth

List 3 (Physiological Conditions and Somatic Diseases Requiring Special Patient Management)

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. arterial hypertension
7. rheumatic disease
8. infective endocarditis
9. valvular heart disease
10. heart failure
11. cardiac arrhythmia
12. presence of a cardiac pacemaker

D) Mental Disorders:

13. acute psychosis, including delirium tremens
14. epilepsy

E) Diseases of the Respiratory System and Mediastinum:

15. bronchial asthma

F) Endocrine Diseases:

16. diabetes mellitus
17. thyroid diseases

G) Musculoskeletal and Connective-tissue Disorders:

18. systemic vasculitis (hemorrhagic vasculitis)
19. rheumatoid arthritis
20. postural disorders

H) Infectious and Parasitic Diseases:

21. HIV infection and AIDS
22. viral hepatitis
23. diphtheria
24. tetanus
25. anthrax
26. tuberculosis of various sites
27. cholera
28. plague
29. gonorrhea
30. syphilis

I) Otorhinolaryngological Disorders:

31. tonsillitis
32. rhinitis
33. sinusitis
34. deviated nasal septum

List 4 (Medical Emergencies)

1. asphyxia (including neonatal asphyxia)
2. hypertensive crisis
3. acute respiratory failure
4. acute heart failure
5. acute poisoning
6. acute abdomen
7. electrical injury
8. syncope
9. external bleeding
10. collapse
11. coma
12. laryngeal edema
13. angioedema (Quincke edema)
14. burns and frostbite
15. seizures
16. drowning
17. physiological childbirth
18. shock
19. bone trauma

List 5 (Laboratory and Instrumental Investigations)

1. cytological examination of aspirates from soft-tissue and bone lesions
2. histomorphological examination of biopsy specimens from lymph nodes, salivary glands, mucous membranes, and soft tissues
3. blood glucose measurement
4. evaluation of diagnostic casts of the jaws
5. assessment of dentofacial system functions (breathing, swallowing, speech, mastication, and temporomandibular joint function)
6. complete blood count
7. urinalysis
8. biochemical blood tests
9. immunological testing in dental diseases
10. coagulation profile
11. interpretation of radiographic examinations of the skull, dentofacial system, and salivary glands
12. cytological examination of the organs and tissues of the dentofacial system
13. microbiological examination of oral fluid and swabs from the oral mucosa and periodontium
14. functional diagnostics of the oral cavity (fluorescence diagnostics, rheoparodontography, stomatoscopy, capillaroscopy, vacuum test, etc.)

List 6 (Medical Procedures)

1. perform artificial ventilation
2. perform chest compressions
3. secure the tongue
4. achieve temporary control of external bleeding
5. perform primary surgical wound debridement
6. perform gastric and intestinal lavage
7. apply transport immobilization
8. administer medicinal products by injection (intramuscular, subcutaneous, intravenous bolus, or intravenous infusion)
9. measure arterial blood pressure
10. provide immediate care to a newborn after birth
11. determine the blood group and Rh factor

List 7 (Dental Procedures)

1. alveolotomy
2. pulpotomy of primary and permanent teeth
3. tooth bleaching
4. selective tooth grinding, occlusal adjustment, and occlusogram recording
5. fabrication of temporary splints and splinting for fractures of teeth, alveolar processes, and jaws
7. assessment of enamel acid resistance
8. determination and registration of centric relation
9. reduction of mandibular dislocation
10. fissure sealing
11. diagnostic use of dyes
12. diathermocoagulation
13. pulpectomy of primary and permanent teeth
14. electric pulp testing
15. instillation of medicinal products into periodontal pockets
16. local anesthesia in dental treatment (topical, infiltration, or conduction anesthesia)
17. removal of artificial crowns
18. control of post-extraction bleeding
19. silver impregnation of the hard tissues of primary teeth
20. adjustment of partial and complete removable dentures
21. socket curettage
22. periodontal pocket curettage (open or closed)
23. medication of affected areas of the oral mucosa and periodontium
24. placement and removal of temporary fillings and hermetic dressings in the treatment of caries, pulpitis, and apical periodontitis
25. taking anatomical and functional impressions using various impression materials
26. fabrication of casts of the dental arches and denture-bearing area
27. fabrication of diagnostic casts
28. try-in and assessment of a prosthesis for partial or complete edentulism
29. restoration of carious cavities in primary and permanent teeth using various restorative materials
30. obturation of root canals in primary and permanent teeth using various materials
31. application of therapeutic and preventive varnishes and gels to teeth
32. tooth preparation for stamped metal and acrylic crowns
33. instrumentation and treatment of root canals in primary and permanent teeth
34. preparation of carious cavities in primary and permanent teeth according to the restorative material used
35. preparation and application of setting and non-setting periodontal dressings
36. fitting of various types of artificial crowns
37. intradental electrophoresis
38. professional oral hygiene
39. physiological tooth separation
40. incision and drainage of a periodontal abscess
41. incision and excision of the operculum in pericoronitis
42. periostotomy
43. routine and surgical extraction of primary and permanent teeth
44. cementation of crowns and fixed dental bridges
45. surgical debridement of facial soft-tissue wounds within one anatomical region
46. finishing and polishing of restorations made of all types of restorative materials

Matrix of conformity of program competencies to the main components of the educational and vocational programme (continuation)

	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	CC 43	CC 44	CC 45	CC 46	CC 47	CC 48
GC 1																						
GC 2	•	•	•	•	•	•	•	•	•	•	•											
GC 3	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
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The matrix ensuring educational outcomes is the main component of the educational and vocational programme

	CC 1	CC 1 (i)	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	CC 23	CC 24	CC 25	CC 26
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The matrix for ensuring curriculum outcomes is the main components of the educational and vocational programme (continuation)

	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	CC 43	CC 44	CC 45	CC 46	CC 47	CC 48
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