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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University
Institute of Medicine**

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Orthodontics and pediatric prosthetics

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Dentistry

higher education programme profile/specialisation title

2026 г.

1. COURSE GOAL(s)

The course "Orthodontics and Pediatric Prosthetics" is included in the specialty program "Dentistry" in the field of 31.05.03 "Dentistry" and is studied in the 8th and 9th semesters of the 4th and 5th years. The discipline is implemented by the Department of Pediatric Dentistry and Orthodontics. The discipline consists of 6 sections and 19 topics and is aimed at studying the epidemiology and etiology of dental, maxillofacial, and facial abnormalities and deformities; the development, growth, and formation of the jaws and the face as a whole; the methods of clinical and radiological examination of the dental and maxillofacial system, the classifications of dental and maxillofacial abnormalities; the methods of prevention of dental and maxillofacial abnormalities, congenital and hereditary diseases; and the methods of treatment of dental and maxillofacial abnormalities and deformities during various periods of growth and development, as well as in adult patients.

The purpose of the course is to train a dentist who has a systematic knowledge of the fundamentals and latest achievements of orthodontics, in order to use this knowledge in practical and scientific activities.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Orthodontics and pediatric prosthodontics" is aimed at the development of the following competences /competences in part: GC-1; GPC-1, GPC-2, GPC-4, GPC-5, GPC-9; PC-1, PC-2, PC-5.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-1.	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	GC-1.1. Analysing the problem situation as a system identifying its components and links between them.
GPC-1.	Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity	GPC-1.1. Observing bases of medical ethics and deontology; legal bases in healthcare; legal aspects of medical practice.
		GPC-1.3. Being experienced in solving standard professional tasks based on the ethical standards and deontological principles when interacting with colleagues and patients (their legal representatives); being aware of legal aspects of medical practice.
GPC-2.	Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	GPC-2.1. Analysing the causes of professional errors, therapeutic failures and conflict situations.
		GPC-2.2. Providing scientific arguments for and implementing recommendations aimed at improving the medical and legal training of dentists, preventing professional errors, adverse outcomes and conflict situations.
		GPC-2.3. Assessing the effectiveness of preventive measures aimed at preventing professional errors, adverse outcomes and conflict situations in dentistry.

GPC-4.	Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	<p>GPC-4.1. Analysing the awareness of the population of a healthy lifestyle and medical literacy.</p> <p>GPC-4.3. Preparing an oral presentation or a printed text that promotes a healthy lifestyle and increases the literacy of the population concerning dental disease prevention.</p>
GPC-5.	Being able to examine patients to determine a diagnosis when solving professional tasks	<p>GPC-5.1. Gathering anamnesis by analysing the patient’s complaints, making a physical examination at a dental appointment.</p> <p>GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.</p> <p>GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.</p> <p>GPC-5.4. Referring a patient to a laboratory examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of dental care.</p> <p>GPC-5.5. Referring a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care taking into account the standards.</p> <p>GPC-5.6. Referring a patient for a consultation with medical specialists in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care taking into account the standards.</p> <p>GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.</p> <p>GPC-5.9. Making a diagnosis based on the current international statistical classification of diseases and health problems.</p>
GPC-6.	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	<p>GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.</p> <p>GPC-6.2. Selecting medical products (including dental materials) for drawing up</p>

		<p>a comprehensive plan for dental disease treatment. Following up the treatment of a patient.</p> <p>GPC-6.3. Assessing the possible side effects of taking medicinal drugs.</p> <p>GPC-6.4. Providing medical care to a dental patient in emergency or urgent forms.</p> <p>GPC-6.5. Organizing the prevention and treatment of complications, side effects, undesirable reactions, including the unforeseen ones, which can arise from diagnostic or medicinal manipulations, use of drugs and (or) medical devices, non-drug treatment at a dental appointment.</p> <p>GPC-6.9. Evaluating the efficacy and safety of using medicinal drugs, medical devices and other methods of treatment at a dental appointment.</p>
GPC-9.	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	<p>GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks.</p> <p>GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks.</p> <p>GPC-9.3. Determining morpho-functional, physiological states and pathological processes of the human body.</p>
PC-1.	Being able to make an examination of a patient in order to determine a diagnosis.	<p>PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.</p> <p>PC-1.2. Receiving information from patients (their relatives/legal representatives); conducting a questionnaire survey of patients regarding their general health status; identifying concomitant diseases in order to make a preliminary diagnosis.</p> <p>PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition on the basis of the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.</p> <p>PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.</p> <p>PC-1.6. Making a final diagnosis based on additional examinations of patients.</p>
PC-2.	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.1. Organizing the provision of emergency and urgent medical care for acute dental diseases, conditions, exacerbation of chronic diseases, which pose a threat to the patient's life, or without obvious signs of a threat to the patient's life.

		<p>PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs.</p> <p>PC-2.3. Consulting patients on methods for treating dental diseases drawing up a comprehensive treatment plan which justifies the most appropriate tactics and assesses possible complications caused by using this technique.</p> <p>PC-2.4. Selecting the type of local anesthesia/anesthesia and assessing the possible complications caused by using it.</p> <p>PC-2.5. Conducting a specialized appointment for adults and/or children, monitoring the course of treatment of caries, non-carious dental diseases, pulpitis, periodontal disease, periodontitis, jawbone tissue, peripheral nervous system of the maxillofacial area, temporomandibular joint, salivary glands, diseases of the mucous tunic of mouth, with the exception of precancers, using modern treatment methods approved for use in medical practice.</p> <p>PC-2.8. Observing and treating diseases of the oral mucosa, lips, with the exception of a specialized appointment for the treatment of precancers of the oral mucosa and lips, and treatment of children with manifestations of viral, bacterial, allergic and other pediatric infections in the oral cavity.</p> <p>PC-2.9. Performing a phased sanitation of the oral cavity (excluding the sanitation of children under conditions of anesthesia).</p>
PC-5.	Being able to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle	PC-5.1. Motivating patients (their relatives/legal representatives) to stick to a healthy lifestyle and give up bad habits.

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GC-1	GC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	<ul style="list-style-type: none"> • Medical elementology**; • Otorhinolaryngology; • Philosophy; • History of Medicine; • Pathophysiology - Pathophysiology of the head and neck; • Bioelements in medicine**; • Psychology, pedagogy; • Immunology, clinical immunology; • Chemistry of biogenic elements**; • Obstetrics; • Prosthetics for complete absence of teeth; • Pediatric dentistry; • Dental modeling of teeth**; • Human Anatomy - Head and Neck Anatomy; • Dental prosthetics (simple prosthetics); • Dental prosthetics (complex prosthetics); • Mathematics; • Physics; 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Gnathology and functional diagnosis of the temporomandibular joint;
GPC-1	GPC-1. Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity	<ul style="list-style-type: none"> • Otorhinolaryngology; • Jurisprudence; • History of Medicine; • Pediatric dentistry; • Organization of general patient care; • Introduction to the specialty; • Introductory practice; • Practice in obtaining primary professional skills in positions of nursing staff (Assistant ward and procedural nurses); 	
GPC-2	GPC-2. Being able to analyse the results of their own professional activity to prevent professional errors	<ul style="list-style-type: none"> • Endodontics; • Periodontology; • Oral surgery; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Pediatric dentistry; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity;

GPC-4	GPC-4. Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	<ul style="list-style-type: none"> • Prevention and community dentistry; • Hygiene; • Pediatric dentistry; 	
GPC-5	GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	<ul style="list-style-type: none"> • Emergency conditions in outpatient dental practice; • Ophthalmology; • Endodontics; • Periodontology; • Oral surgery; • General surgery; • Surgical diseases; • Internal illnesses; • Pathological anatomy - Pathological anatomy of the head and neck; • Obstetrics; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • Pediatric dentistry; • Propaedeutics of dental diseases; • Dental prosthetics (simple prosthetics); • Dental prosthetics (complex prosthetics); 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Pediatric maxillofacial surgery; • Gnathology and functional diagnostics of the temporal mandibular joint; • Maxillofacial prosthetics;
GPC-6	GPC-6. Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	<ul style="list-style-type: none"> • Emergency conditions in outpatient dental practice; • Materials Science; • Endodontics; • Periodontology; • Oral surgery; • General surgery; • Pharmacology; • Surgical diseases; • Internal illnesses; • Immunology, clinical immunology; • Obstetrics; • Cariesology and diseases of hard dental tissues; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Clinical pharmacology; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Clinical dentistry; • Pediatric maxillofacial surgery; • Gnathology and functional diagnosis of the temporomandibular joint;

		<ul style="list-style-type: none"> • Prosthetics for complete absence of teeth; • Pediatric dentistry; • Fundamentals of military training. • Life safety; • Dental prosthetics (simple prosthetics); • Dental prosthetics (complex prosthetics); 	<ul style="list-style-type: none"> • Maxillofacial prosthetics;
GPC-9	GPC-9. Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	<ul style="list-style-type: none"> • Ophthalmology; • Oral surgery; • Biological chemistry - Biochemistry of the oral cavity; • Microbiology, virology - Microbiology of the oral cavity; • Pathophysiology - Pathophysiology of the head and neck; • Pathological anatomy - Pathological anatomy of the head and neck; • Radiation diagnostics; • Obstetrics; • Local anesthesia and anesthesiology in dentistry; • Pediatric dentistry; • Human Anatomy - Head and Neck Anatomy; • Histology, embryology, cytology - Histology of the oral cavity; • Normal physiology, physiology of the maxillofacial area; • Topographic anatomy and operative surgery of the head and neck; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Forensic Medicine; • Implantology and reconstructive surgery of the oral cavity;
PC-1	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	<ul style="list-style-type: none"> • Ophthalmology; • Endodontics; • Periodontology; • Oral surgery; • Otorhinolaryngology; • Pathophysiology - Pathophysiology of the head and neck; • Pathological anatomy - Pathanatomy of the head and neck; • Immunology, clinical immunology; • Chemistry of biogenic elements**; 	<ul style="list-style-type: none"> • Maxillofacial and Gnathic Surgery; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Oncostomatology and radiation therapy; • Pediatric maxillofacial surgery; • Modern endodontics**;

		<ul style="list-style-type: none"> • Radiation diagnostics; • Obstetrics; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics with complete absence of lips; • Pediatric dentistry; • Propaedeutics of dental diseases; • Dental modeling of teeth**; • Three-dimensional computer modeling of teeth**; • Three-dimensional x-ray diagnostic methods in dentistry**; • Fundamentals of military training. • Life safety; • Dental prosthetics (simple prosthetics); • Dental prosthetics (complex prosthetics); • Assistant dentist (hygienist); • Assistant dentist (surgeon); 	<ul style="list-style-type: none"> • Gnathology and functional diagnosis of the temporomandibular joint; • Maxillofacial prosthetics; • Aesthetic restoration of teeth**; • Assistant dentist (general practice), incl. research work;
PC-2	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	<ul style="list-style-type: none"> • Endodontics; • Periodontology; • Innovative technologies in dentistry; • Medical elementology**; • Oral surgery; • Bioelements in medicine**; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • Pediatric dentistry; • Propaedeutics of dental diseases; • Organization of general patient care; 	<ul style="list-style-type: none"> • Maxillofacial and Gnathic Surgery; • Clinical pharmacology; • Gerontostomatology and diseases of the oral mucosa; • Implantology and oral reconstructive surgery; • Clinical dentistry; • Pediatric maxillofacial surgery; • Modern endodontics**; • Gnathology and functional diagnosis of the temporomandibular joint; • Maxillofacial prosthetics; • Aesthetic restoration of teeth**;

		<ul style="list-style-type: none"> • Infectious diseases, phthysiology; • Dental prosthetics (simple prosthetics); • Dental prosthetics (complex prosthetics); • Assistant dentist (surgeon); 	<ul style="list-style-type: none"> • Assistant dentist (general practice), incl. research work;
PC-5	PC-5. Being able to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle	<ul style="list-style-type: none"> • Oral surgery; • Prevention and community dentistry; • Public Health and Healthcare; • Hygiene; • Psychology, pedagogy; • Local anesthesia and anesthesiology in dentistry; • Pediatric dentistry; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Implantology and reconstructive surgery of the oral cavity; • Dental assistant (general practice), incl. research work;

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Orthodontics and pediatric prosthetics" is 5 credits (180 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)*

Type of academic activities	Total academic hours	Semesters/training modules			
		8	9		
Classroom learning, ac.h.	119	51	68		
including:					
Lectures (LC)	-	-	-		
Lab work (LW)	119	51	68		
Seminars (workshops/tutorials) (S)	-	-	-		
Self-studies	37	15	22		
Evaluation and assessment (exam/passing/failing grade)	24	6	18		
Course workload	ac.h.	180	72	108	
	credits	5	2	3	

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Section 1 Introduction to the specialty. Organization orthodontic care. Age features of the dental and maxillary system of the child in the norm. Etiology, classification dental and maxillary anomalies.	1.1 Introduction to the specialty. Organization of orthodontic care. Principles of operation and organization of orthodontic care	LW
	1.2 Age-related features of a child's dental and maxillofacial system are normal. Age-related features in children	LW
	1.3 Etiology of dental and maxillofacial abnormalities. Abnormalities of the dental and maxillofacial system	LW
	1.4 Classifications of dental and maxillofacial abnormalities. Different classifications of the dental system	LW
Section 2 Methods of examination and diagnosis in orthodontics.	2.1 Clinical examination method in orthodontics. Clinical examination of the patient	LW
	2.2 Anthropometric methods of examination. Analysis of jaw models	LW
	2.3 X-ray examination methods. CECT, MRI, TRG	LW
	2.4 Functional research methods. EMG, condylography	LW
Section 3 Treatment methods in orthodontics. Prevention of dental and maxillofacial abnormalities.	3.1 Treatment methods in orthodontics. Classification of mouthguards. Various methods of orthodontic treatment	LW
	3.2 Mechanical devices. Classification of hardware treatment	LW
	3.3 Devices of functional-guiding and combined action. Trainers, activators and regulators of functions. Trainers, activators, and function regulators.	LW
Section 4 Modern technologies in orthodontics.	4.1 Modern orthodontic methods of treatment. Aligners	LW
	4.2 The bracket system. The bracket system.	LW
	4.3 Retention of orthodontic treatment results. Retention period	LW
Section 5 Dental and maxillofacial	5.1 Diagnosis and treatment of dental, dental arch, and jawbone abnormalities. Diagnosis and treatment of dental and jaw abnormalities	LW
	5.2 Diagnosis and treatment of occlusion abnormalities in the sagittal direction. Abnormalities in the sagittal plane	LW

abnormalities. Clinical forms. Diagnosis. Treatment.	5.3 Diagnosis and treatment of vertical occlusion abnormalities. Diagnosis and treatment of transversal occlusion abnormalities. Abnormalities in the vertical and transverse planes	LW
Section 6 Dental and maxillofacial prosthetics for children and adolescents.	6.1 Principles of treatment of dental and maxillofacial abnormalities in case of congenital malformations of the maxillofacial area. Orthodontic treatment of dental and maxillofacial abnormalities in case of congenital defects	LW
	6.2 Dental prosthetics for children and adolescents. Dental prosthetics	LW

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab-work	An auditorium for conducting laboratory work, individual consultations, current control, and intermediate certification, equipped with a set of specialized furniture and equipment.	A room with appropriate equipment (Fantoms), tools, medical equipment, and preventive measures.
For independent work	An auditorium for students' independent work (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIOS.	

* - the classroom for independent study is **REQUIRED!**

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Orthodontics. Situational tasks : Textbook / L. S. Persin, A. B. Slabkovskaya, A. V. Alimova [et al.]. – Moscow : GEOTAR-Media, 2023. – 192 p. – ISBN 978-5-9704-7437-2. – EDN BJCPIO.
2. Orthodontics. National Guidelines. In 2 volumes. Vol. 1. Diagnosis of Dental and Maxillary Abnormalities / edited by L. S. Persin. - Moscow: GEOTAR-Media, 2020. - 304 p.: ill. - (Series "National Guidelines"). - DOI: 10.33029/9704-5408-4-1-ONRD-2020-1-304. - ISBN 978-5-9704-5408-4.
3. Orthodontics. National Guidelines / M. Ya. Abramova, S. V. Averyanov, A. V. Alimova [et

- al.]. – Moscow: GEOTAR-Media Publishing Group LLC, 2020. – 376 p. – (National Guidelines; 2; Treatment of Dental and Maxillary Abnormalities). – ISBN 978-5-9704-5409-1. – DOI 10.33029/9704-5409-1-2-ONRD-2020-1-376. – EDN ASDIEQ.
4. Orthodontics. Modern Methods of Diagnosing Dental Abnormalities, Dentition and Occlusion : Tutorial / L. S. Persin, A. B. Slabkovskaia, E. A. Karton [et al.]. – Moscow : Limited Liability Company GEOTAR-Media Publishing Group ", 2021. – 160 p. – ISBN 978-5-9704-6337-6. – DOI 10.33029/9704-6337-6-OMM-1-160. – EDN UIBWJX.
5. Orthodontics. Modern methods of diagnosing dental anomalies, dental arches, and occlusion : Textbook / L. S. Persin, A. B. Slabkovskaya, E. A. Karton [et al.]. – Moscow : GEOTAR-Media Publishing Group LLC, 2017. – 160 p. – ISBN 978-5-9704-4208-1. – EDN YKUGTP.
6. Bracket systems. A modern perspective : a textbook / L. S. Persin, A. B. Slabkovskaya, E. I. Merzhvinskaya, E. A. Karton. – Moscow : GEOTAR-Media Publishing Group LLC, 2019. – 128 p. – ISBN 978-5-9704-5022-2. – EDN ZCEMGT.

Additional readings:

1. Comparative Effectiveness of Botox Injection and Surgery for Lip Position Correction in Gingival Smile / M. U. McKeie, M. Harfush, A. McKeie [et al.] // Dentistry. – 2021. – Vol. 100, No. 3. – Pp. 47-54. – DOI 10.17116/stomat202110003147. – EDN DJNHIV.
2. Modern trends in the diagnosis and treatment of patients with TMJ dysfunction / S. Yu. Ivanov, N. S. Tuturov, E. A. Bulycheva [et al.] // Institute of Dentistry. – 2022. – No. 1(94). – P. 32-34. – EDN DXIXJH.
3. Clinical observations of metal braces detachment from tooth enamel when using a domestic adhesive complex / A. M. Khasan, T. F. Kosyreva, N. S. Tuturov [et al.] // Dentistry for Everyone. – 2023. – No. 2(103). – P. 58-63. – DOI 10.35556/idr-2023-2(103)58-63. – EDN SMXEZT.
4. Perez C. Temporomandibular disorders in children and adolescents. Gen Dent. 2018 Nov-Dec;66(6):51-55. PMID: 30444707.
5. Cephalometric characteristics of patients with Class II malocclusion of the I subclass at the late stage of mixed occlusion / T. F. Kosyreva, N. S. Tuturov, I. Katbeh [et al.] // Bulletin of Postgraduate Medical Education. – 2021. – No. 1. – P. 53-57. – EDN EWETHF.
5. Functional analysis of the temporomandibular joint condition in patients with mesial occlusion / N. S. Tuturov, E. A. Bulycheva, I. Katbeh [et al.] // Institute of Dentistry. – 2021. – No. 4(93). – P. 77-79. – EDN NBZIIV.

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:
 - RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/>
 - ELS "University Library Online" <http://www.biblioclub.ru>
 - EBS Yurayt <http://www.biblio-online.ru>
 - ELS "Student Consultant" www.studentlibrary.ru
 - EBS "Lan" <http://e.lanbook.com/>
 - EBS "Trinity Bridge"
2. Databases and search engines:
 - electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
 - Yandex search engine <https://www.yandex.ru/>
 - Google search engine <https://www.google.ru/>
 - Abstract database SCOPUS
<http://www.elsevier.com/locate/SCOPUS>

Learning toolkits for self-studies during the development of the discipline:*

1. Course of lectures on the discipline "Orthodontics and children's prosthetics".
2. Laboratory workshop on the discipline "Orthodontics and children's prosthetics".
3. Guidelines for the implementation and design of the course work "Orthodontics and children's prosthetics".

* - the assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order)!

DEVELOPERS:

Associate professor, Department of
Pediatric Dentistry and
Orthodontics

Position, educational department

Signature

D.S. Bulycheva

name and surname.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Pediatric Dentistry
and Orthodontics

educational department

Signature

N.S. Tuturov

name and surname.

**HEAD OF
HIGHER EDUCATION PROGRAMME:**

Deputy Director for Academic
Affairs, Medical Institute, Head
department, professor of the
Department of propaedeutics of
dental diseases

Position, educational department

Signature

S.N. Razumova

name and surname.