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Institute of Medicine

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

COURSE SYLLABUS

Orthodontics and pediatric prosthodontics

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

2024-2025

1. COURSE GOAL(s)

The goal of the course "Orthodontics and pediatric prosthetics" is to prepare of a dentists who has systemic knowledge of the basics and latest achievements of orthodontics to use that knowledge gained in practical and scientific activities.

Tasks:

- to acquaint the student with the epidemiology, etiology of dentofacial anomalies and deformities;

- to acquaint the student with the development, growth and formation of the jaws and face in general;

- to acquaint the student with the methods of clinical and radiological examination of the dentoalveolar system, classifications of dentoalveolar anomalies;

- to acquaint the student with the methods of preventing the formation of dental anomalies, congenital and hereditary diseases;

- to acquaint the student with the methods of treatment of dentoalveolar anomalies and deformities in various periods of growth and development, as well as in adult patients

- consider the use of various designs of orthodontic appliances.

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.

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	 GPC-2.1. Analysing the causes of professional errors, therapeutic failures and conflict situations. GPC-2.2. Providing scientific arguments for and implementing

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

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	and hygienic education	recommendations aimed at improving
	of the population	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	GPC-4.1. Analysing the awareness of
	the effectiveness of	the population of a healthy lifestyle and
	preventive measures,	medical literacy.
	healthy lifestyle	GPC-4.3. Preparing an oral presentation
	formation and sanitary	or a printed text that promotes a healthy
	and hygienic education	lifestyle and increases the literacy of the
	of the population	population concerning dental disease
		prevention.
GPC-5.	Being able to examine	GPC-5.1. Gathering anamnesis by
	patients to determine a	analysing the patient's complaints,
	diagnosis when solving	making a physical examination at a
	professional tasks	dental appointment.
		GPC-5.2. Formulating a preliminary
		diagnosis and drawing up a plan for
		laboratory and instrumental
		examinations of a dental patient.
		GPC-5.3. Compiling medical
		documentation for a dental patient in
		accordance with regulatory
		requirements.
		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.
		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.
		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)
		(ueatiment protocols)

		on the provision of dental care taking
		into account the standards.
		GPC-5.8. Conducting differential
		diagnosis with other diseases/conditions,
		including the urgent ones.
		GPC-5.9. Making a diagnosis based on
		the current international statistical
		classification of diseases and health
		problems.
GPC-6.	Being able to prescribe	GPC-6.1. Developing a plan for dental
	non-drug and drug	disease treatment taking into account the
	treatment, monitor its	diagnosis, age and clinical picture in
	efficacy and safety when	accordance with the current procedures
	solving professional	for the provision of medical care,
	tasks	clinical guidelines (treatment protocols)
		on the provision of medical care taking
		into account the medical care standards.
		GPC-6.2. Selecting medical products
		(including dental materials) for drawing
		up a comprehensive plan for dental
		disease treatment. Following up the
		treatment of a patient.
		GPC-6.3. Assessing the possible side
		effects of taking medicinal drugs.
		GPC-6.4. Providing medical care to a
		dental patient in emergency or urgent
		forms.
		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.
		GPC-6.9. Evaluating the efficacy and
		safety of using medicinal drugs, medical
		devices and other methods of treatment
		at a dental appointment.
GPC-9.	Being able to assess	GPC-9.1. Being able to use the
	morpho-functional,	algorithm of clinical, laboratory and
	physiological conditions	functional diagnosis in dealing with
	and pathological	professional tasks.
	processes in the human	GPC-9.2. Evaluating the results of
	body to solve	clinical, laboratory and functional
	professional tasks	diagnosis in dealing with professional
	r	tasks.
		GPC-9.3. Determining morpho-
		functional, physiological states and
		pathological processes of the human
		body.
		oouy.

PC-1.	Raing able to make an	PC 1.1 Making on initial argumination
PC-1.	Being able to make an	PC-1.1. Making an initial examination
	examination of a patient	and/or reexamination of a patient in
	in order to determine a	order to make a preliminary diagnosis.
	diagnosis.	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.
		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.
		PC-1.5. Making a preliminary/final
		diagnosis based on the patient
		examination; laboratory and
		instrumental examinations.
		PC-1.6. Making a final diagnosis based
		on additional examinations of patients.
PC-2.	Being able to prescribe,	PC-2.1. Organizing the provision of
	monitor the efficacy and	emergency and urgent medical care for
	safety of non-drug and	acute dental diseases, conditions,
	drug treatment	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.
		PC-2.2. Selecting drugs and medical
		devices (including dental materials) for
		dental disease treatment assessing the
		possible side effects of taking medicinal
		drugs.
		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.
		PC-2.4. Selecting the type of local
		anesthesia/anesthesia and assessing the
		possible complications caused by using
		it.
		PC-2.5. Conducting a specialized
		• •
		appointment for adults and/or children,
		• •

		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.
		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.
		PC-2.9. Performing a phased sanitation
		of the oral cavity (excluding the
		sanitation of children under conditions
		of anesthesia).
PC-5.		PC-5.1. Motivating patients (their
		relatives/legal representatives) to stick to
	Being able to conduct	a healthy lifestyle and give up bad
	health and hygiene	habits.
	education among the	
	population and medical	
	workers in order to form	
	a healthy lifestyle	
	a neutrity most yie	

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the <u>core/</u>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.

Competence	Competence	Previous courses/modules*	Subsequent
code	descriptor		courses/modules*
GC-1	GC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	 Medical elementology**; Otorhinolaryngology; Philosophy; History of Medicine; Pathophysiology - Pathophysiology of the head and neck; Bioelements in medicine**; 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Gnathology and functional diagnosis of the temporomandibular joint;

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

GPC-1 GPC-2	GPC-1. Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity GPC-2. Being able to analyse the results of their own professional activity to prevent professional activity to prevent professional activity to prevent professional activity to prevent professional activity to prevent	 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); Dental prosthetics (complex prosthetics); Dental prosthetics; Physics; Otorhinolaryngology; Jurisprudence; History of Medicine; Pediatric dentistry; Organization of general patient care; Introductory practice; Practice in obtaining primary professional skills in positions of nursing staff (Assistant ward and procedural nurses; Endodontics; Periodontology; Oral surgery; Cariesology and diseases of hard dental tissues; Local anesthesia and anesthesiology in dentistry; 	 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	 Pediatric dentistry; Prevention and community dentistry; 	

GPC-5	the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population GPC-5. Being able to examine patients to	 Hygiene; Pediatric dentistry; Emergency conditions in outpatient 	• Maxillofacial and gnathic surgery;
	patients to determine a diagnosis when solving professional tasks	 outpatient dental practice; Ophthalmology; Endodontics; Periodontology; Oral surgery; General surgery; General surgery; Surgical diseases; Internal illnesses; Pathological anatomy Pathological anatomy Pathological anatomy Pathological anatomy Pathological anatomy 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); 	 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	 Emergency conditions in outpatient dental practice; Materials Science; Endodontics; Periodontology; Oral surgery; General surgery; 	 Maxillofacial and gnathic surgery; Clinical pharmacology; Gerontostomatology and diseases of the oral mucosa; Implantology and reconstructive

		 Pharmacology; Surgical diseases; Internal illnesses; Immunology, clinical immunology; Obstetrics; Cariesology and diseases of hard dental tissues; Prosthetics for complete absence of teeth; Pediatric dentistry; Fundamentals of military training. Life safety; Dental prosthetics (simple prosthetics); Dental prosthetics; Dental prosthetics (complex prosthetics); 	 surgery of the oral cavity; Clinical dentistry; Pediatric maxillofacial surgery; Gnathology and functional diagnosis of the temporomandibular joint; 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	 Ophthalmology; Ophthalmology; Oral surgery; Biological chemistry Biochemistry of the oral cavity; Microbiology of the oral cavity; Pathophysiology - Pathophysiology - Pathophysiology of the head and neck; Pathological anatomy Pathological anatomy Pathological anatomy Pathological anatomy Badiation diagnostics; Obstetrics; Local anesthesia and anesthesiology in dentistry; Pediatric dentistry; Human Anatomy - Head and Neck Anatomy; Histology, embryology, 	 Maxillofacial and gnathic surgery; Forensic Medicine; Implantology and reconstructive surgery of the oral cavity;

PC-1	PC-1. Being able	 cytology - Histology of the oral cavity; Normal physiology, physiology of the maxillofacial area; Topographic anatomy and operative surgery of the head and neck; Ophthalmology: 	Maxillofacial and
PC-1	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	 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**; 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. 	 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**; 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	 Life safety; Dental prosthetics (simple prosthetics); Dental prosthetics); Dental prosthetics (complex prosthetics); Assistant dentist (hygienist); Assistant dentist (surgeon); 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; Propaedeutics of dental diseases; Organization of general patient care; Infectious diseases, phthisiology; Dental prosthetics (cimple prosthetics 	 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**; Assistant dentist (general practice).
		phthisiology;	teeth**;
PC-5	PC-5. Being able to conduct health and hygiene education among the population and medical workers	 Oral surgery; Prevention and community dentistry; Public Health and Healthcare; Hygiene; 	 Maxillofacial and gnathic surgery; Implantology and reconstructive surgery of the oral cavity;

in order to form a healthy lifestyle	 Psychology, pedagogy; Local anesthesia and anesthesiology in dentistry; Pediatric dentistry; 	• Dental assistant (general practice), incl. research work;
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* 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 **6** credits (216 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	Semesters/training modules		
		hours	8	9	
Classroom learning, ac.h.		115	51	64	
including:					
Lectures (LC)		-	-	-	
Lab work (LW)		115	51	64	
Seminars (workshops/tutorials) (S)		-	-	-	
Self-studies		68	15	53	
<i>Evaluation and assessment (exam/passing/failing grade)</i>		33	6	27	
Course workload	ac.h.	216	72	144	
	credits	6	2	4	

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

5. COURSE CONTENTS

Course module title	Course module contents (topics)	Academic activities types
Section 1. Introduction	Topic 1.1. Introduction to the specialty. Organization of	LW
to the specialty.	orthodontic care.	
Organization of	Topic 1.2. Age features of normal dentoalveolar system in	LW
orthodontic care. Age	children.	
features of normal	Topic 1.3. Etiology of dental anomalies.	LW
dentoalveolar system in children. Etiology, classification of dentoalveolar anomalies.	Topic 1.4. Classification of dental anomalies.	LW
Section 2. Methods of	Topic 2.1. Clinical examination method in orthodontics.	LW
examination and	Topic 2.2. Anthropometric examination methods.	LW
diagnostics in	Topic 2.3. X-ray methods of examination.	LW
orthodontics.	Topic 2.4. Functional examination methods.	LW

Table 5.1. Course contents and academic activities types

Section 3. Methods of	Topic 3.1. Methods of treatment in orthodontics.	LW
treatment in	Classification of devices.	
orthodontics.	Topic 3.2. Apparatuses of mechanical action.	
Prevention of dental	Topic 3.3. Devices of functional-guiding and combined	
anomalies.	action. Trainers, activators and regulators of functions.	
Section 4. Modern	Topic 4.1. Modern orthodontic methods of treatment.	LW
technologies in	Topic 4.2. Bracket system.	LW
orthodontics.	Topic 4.3. Retention of the results of orthodontic	LW
	treatment.	
Section 5. Dental	Topic 5.1. Diagnosis and methods of treatment of	LW
anomalies. clinical	anomalies of teeth, dental arches and jawbones.	
forms. Diagnostics.	Topic 5.2. Diagnosis and treatment of anomalies of	LW
Treatment.	occlusion in the sagittal plane.	
	Topic 5.3. Diagnosis and treatment of anomalies of	LW
	occlusion in the vertical plane. Diagnosis and treatment of	
	anomalies of occlusion in the transversal plane.	
Section 6. Dental	Topic 6.1. Principles of treatment of dentoalveolar	LW
prosthetics in children	anomalies in congenital malformations of the	
and adolescents.	maxillofacial region.	
	Topic 6.2. Dental prosthetics in children and adolescents.	LW

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

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. A variety of equipment is used for classroom activities: (visual aids, dental equipment and surgical instruments for extraction of teeth, phantoms, drugs, extracted teeth, x- rays, computer presentation, computers, projector, tables, dental equipment and surgical instruments for emergency care), (classrooms 245, 249)	Training room for conducting lecture and seminar classes, group and individual consultations, current control and intermediate certification. A set of specialized furniture; technical means: multimedia projector, laptop, WiFi available Internet access. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams)
Lab-work	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	Cabinets with appropriate equipment (Phantom Class), instruments, medical equipment, preventive measures;
Self-studies	Classroom for self-studies of students	

 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)
	(can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the internet.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

- Orthodontics. Modern Methods of Diagnosing Dental Abnormalities, Dentition and Occlusion: Tutorial / L. S. Persin, A. B. Slabkovskaia, E. A. Karton [et al.]. – Moscow: Общество с ограниченной ответственностью Издательская группа "ГЭОТАР-Медиа", 2021. – 160 р. – ISBN 978-5-9704-6337-6. – DOI 10.33029/9704-6337-6-OMM-1-160. – EDN UIBWJX.
- Proffit W. R. et al. Contemporary Orthodontics, 6e: South Asia Edition-E-Book. Elsevier India, 2019.
- Lobprise H. B. Occlusion and orthodontics //Wiggs's Veterinary Dentistry: Principles and Practice. 2019. C. 411-437.
- Dawson P. E. Functional occlusion: from TMJ to smile design. Elsevier Health Sciences, 2006.

Additional readings:

- Wang N. et al. Recent advances in antibacterial coatings for orthodontic appliances //Frontiers in Bioengineering and Biotechnology. 2023. T. 11. C. 1093926.
- Kapos F. P. et al. Temporomandibular disorders: a review of current concepts in aetiology, diagnosis and management //Oral surgery. 2020. T. 13. №. 4. C. 321-334.
- Lee G. H. et al. Protocols for orthodontic treatment of patients with temporomandibular joint disorders //American Journal of Orthodontics and Dentofacial Orthopedics. 2021. T. 159. №. 3. C. 373-388.
- Minervini G. et al. Prevalence of temporomandibular disorders in children and adolescents evaluated with Diagnostic Criteria for Temporomandibular Disorders: A systematic review with meta-analysis //Journal of oral rehabilitation. 2023. T. 50. №. 6. C. 522-530.
- Dowgierd K. et al. Protocol for multi-stage treatment of temporomandibular joint ankylosis in children and adolescents //Journal of Clinical Medicine. 2022. T. 11. №. 2. C. 428.
- Vyas T. et al. Cleft of lip and palate: A review //Journal of family medicine and primary care. 2020. T. 9. №. 6. C. 2621-2625.
- Pediatric dentistry at the present stage [text] / O.P. Maksimova // Clinical Dentistry. 2012.
 No. 3. P.38-41.
- Guidelines for writing a term paper on the topic "History of the disease in the clinic of pediatric dentistry".: /T.F.Kosyreva, V.V.Safroshkina, E.S.Zaporozhskaya-Abramova. M.: RUDN, 2012. -24p.
- Perez C. Temporomandibular disorders in children and adolescents. Gen Dent. 2018 Nov-Dec;66(6):51-55. PMID: 30444707

Information support of discipline

a) Information technologies used in the educational process:

- Problem lectures
- Role and business games
- Computer presentations during theoretical and practical classes

b) Software

- training computer programs prepared using the Microsoft Office application package
- controlling computer programs prepared using the Microsoft Office application package c) Information reference systems
 - selection of lecture material on CDs, video films
- d) databases, information and reference and search systems
 - RUDN Electronic Library System RUDN EBS http://lib.rudn.ru/MegaPro/Web
 - ELS "University Library Online" http://www.biblioclub.ru
 - EBS "Lan" http://e.lanbook.com/
 - scientific electronic library eLibrary
 - PubMed international citation database
 - publishing house of academic medical literature Elsevier
 - information and educational portal for doctors Univadis
 - electronic educational resource "Telecommunication educational and information system" of RUDN University
 - cathedral site

Internet sources

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/

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 <u>https://www.google.ru/</u>

- abstract database SCOPUS

http://www.elsescience.en/products/scopus/

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course "Orthodontics and pediatric prosthodontics".

2. The laboratory workshop (if any) on the course "Orthodontics and pediatric prosthodontics".

3. The guidelines for writing a course paper / project (if any) on the course "Orthodontics and pediatric prosthodontics".

4.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (UC-1; GPC-1, GPC-2, GPC-4, GPC-5, GPC-9; PC-1, PC-2, PC-5) upon the course study completion are specified in the Appendix to the course syllabus.

* 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: Senior Lecturer, Department of Im. Katbeh Pediatric Dentistry and Orthodontics position, educational department signature name and surname HEAD OF EDUCATIONAL DEPARTMENT: Department of Pediatric N.S. Tuturov Dentistry and Orthodontics educational department signature name and surname **HEAD OF HIGHER EDUCATION PROGRAMME:** Head department, professor, S.N. Razumova Department of propaedeutics of dental diseases

position, educational department

signature

name and surname