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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University**

Medical Institute

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

COURSE SYLLABUS

Pediatric dentistry

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

1. THE GOALS OF MASTERING THE DISCIPLINE

The purpose of mastering the discipline "Pediatric Dentistry" is training of a dentist who has the necessary skills and knowledge in the field of pediatric dentistry.

Tasks:

- to acquaint the student with the anatomical and physiological characteristics of the child's body, their influence on the clinical course of the main dental diseases in children and adolescents;
- introduce the features of the diagnosis and treatment of these diseases, their outcomes depending on the age of the child, the possibilities of rehabilitation after diseases (medical and social) and ways of its implementation;
- to acquaint the student with the methods of prevention of major dental diseases in children, congenital and hereditary diseases;
- to teach the student to perform certain medical manipulations in pediatric dentistry;
- to teach the student the skills of communication with patients of different ages and with different psyches.

2. REQUIREMENTS to LEARNING OUTCOMES

Mastering the discipline " Pediatric Dentistry " is aimed at developing the following competencies in students:

UC-1.1; GPC-1.1; GPC-1.3; GPC-2.1; GPC-2.2; GPC-2.3; GPC-4.1; GPC-4.3; GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6; GPC-5.8; GPC-5.9; GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.9; GPC-9.1; GPC-9.2; GPC-9.3; PC-1.1; PC-1.2; PC-1.3; PC-1.5; PC-1.6; PC-2.1; PC-2.2; PC-2.3; PC-2.4; PC-2.5; PC-2.8; PC-2.9; PC-2.11; PC-5.1

(in accordance with the Federal State Educational Standard of Higher Education (FSES) 3++ 31.05.03 Dentistry).

Table 2.1. The list of competencies formed by students during the development of the discipline (results of the mastering of the discipline)

Code and competence	Indicators of Competence Formation (within the framework of this discipline)
UC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	UC-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 analyse the results of their	GPC-2.1. Analysing the causes of professional errors, therapeutic failures and conflict situations.

own professional activity to prevent professional errors	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	GPC-4.1. Analysing the awareness of the population of a healthy lifestyle and medical literacy.
	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.
GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analysing the patient's complaints, making a physical examination at a 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) 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 non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks
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.	
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 morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks.
	GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks.
	GPC-9.3. Determining morpho-functional, physiological states and pathological processes of the human body.
PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary 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, 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.
	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, 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.
	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-2.11. Referring patients to inpatient treatment in case of dental diseases in accordance with the established procedure and forming an epicrisis.
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. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

Discipline " **Pediatric Dentistry** " refers to the mandatory part of block B1 of the EP HE, the professional cycle of the educational standard of higher professional medical education in the specialty 31.05.03 "Dentistry". Studied in the seventh and eighth semesters.

The basic knowledge necessary to study the discipline is formed:

- in the cycle of humanitarian disciplines (philosophy, bioethics, pedagogy, psychology, jurisprudence, history of medicine, economics, Latin, foreign language);
- in the cycle of natural sciences, medical and biological disciplines, mathematical, (mathematics, physics, computer science, chemistry, biochemistry, biology, anatomy and topographic anatomy of the maxillofacial region, microbiology, virology, immunology, histology, cytology, normal physiology, pathological anatomy, pathophysiology, pharmacology).

The study of the discipline "Pediatric Dentistry" is based on the knowledge and skills acquired by students earlier as a result of the development of the previous parts of the educational program, which are necessary for the development of this discipline.

Table 3.1. List of Higher Education Program disciplines that contribute to expected learning outcomes

No. p / p	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
Generic competencies			
1	UC-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**; • Philosophy; • History of Medicine; • Pathophysiology - • Pathophysiology of the head and neck; 	<ul style="list-style-type: none"> • Medical rehabilitation; • Pediatric maxillofacial surgery; • Medical genetics in

		<ul style="list-style-type: none"> • Bioelements in medicine**; • Psychology, pedagogy; • Immunology, clinical immunology; • Chemistry of biogenic elements**; • Complete denture prosthetics; • Dental modeling**; • Human Anatomy - Anatomy head and neck; • Dental prosthetics (simple prosthetics); • Mathematics; • Physics; 	<p>dentistry;</p> <ul style="list-style-type: none"> • Orthodontics and Pediatric prosthetics; • Gnathology and functional diagnosis of temporomandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics;
General professional competencies			
2	GPC-1. Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity	<ul style="list-style-type: none"> • Jurisprudence; • History of Medicine; • Organization of general patient care; • Introduction to the specialty; • Introductory practice; • Practice in obtaining primary professional skills in nursing positions (Assistant ward and procedural medicine); 	<ul style="list-style-type: none"> • Orthodontics and Pediatric prosthetics; • medical rehabilitation
3	GPC-2. Being able to analyse the results of their own professional activity to prevent professional errors	<ul style="list-style-type: none"> • Endodontics; • Oral surgery; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Head and neck diseases; • Gerontostomatology and diseases of mucous membrane of the oral cavity; • Implantology and reconstructive surgery of the oral cavity; • Orthodontics and pediatric prosthetics;

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 	<ul style="list-style-type: none"> • Orthodontics and pediatric prosthetics • medical rehabilitation
5	GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	<ul style="list-style-type: none"> • Endodontics; • Oral surgery; • General surgery; • Surgical diseases; • Internal illnesses; • Pathological anatomy - Pathological anatomy of the head and neck; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • Propaedeutics of dental diseases; • Dental prosthetics (simple prosthetics); 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Head and neck diseases; • Pediatrics; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery • oral cavity; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and pediatric prosthetics; • Gnathology and functional diagnostics of the temporal mandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics;
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"> • Materials Science; • Endodontics; • Oral surgery; • General surgery; • Pharmacology; • Surgical diseases; • Internal illnesses; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Head and neck diseases; • Clinical pharmacology; • Pediatrics;

		<ul style="list-style-type: none"> • Immunology, clinical immunology; • Cariesology and diseases of hard dental tissues; • Prosthetics for complete absence of teeth; • Fundamentals of military training. • Life safety; • Dental prosthetics (simple prosthetics; 	<ul style="list-style-type: none"> • Medical rehabilitation; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Clinical dentistry; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and pediatric prosthetics; • Gnathology and functional diagnostics of the temporal mandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics;
7	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"> • 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; • Local anesthesia and anesthesiology in dentistry; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Head and neck diseases; • Medical rehabilitation; • Forensic Medicine; • Implantology and reconstructive surgery of the oral cavity; • Orthodontics and pediatric prosthetics;

		<ul style="list-style-type: none"> • 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; 	
Professional competencies			
8	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	<ul style="list-style-type: none"> • Endodontics; • Oral surgery; • Pathophysiology - Pathophysiology of the head and neck; • Pathological anatomy - Pathological anatomy of the head and neck; • Immunology, clinical immunology; • Chemistry of biogenic elements**; • Radiation diagnostics; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • 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); 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Head and neck diseases; • Medical rehabilitation; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Oncostomatology and radiation therapy; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and children's prosthetics; • Modern endodontics**; • Gnathology and functional diagnostics of the temporal mandibular joint; • Dental prosthetics

		<ul style="list-style-type: none"> • Dental assistant (hygienist); 	<ul style="list-style-type: none"> • (complex prosthetics); • Maxillofacial prosthetics; • Aesthetic restoration of teeth**; • Assistant dentist (pediatric); • Dental assistant (general practice), incl. research work;
9	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	<ul style="list-style-type: none"> • Endodontics; • 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; • Dental prosthetics (simple prosthetics); 	<ul style="list-style-type: none"> • Physiotherapy of dental diseases; • Maxillofacial and gnathic surgery; • Head and neck diseases; • Clinical pharmacology; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Clinical dentistry; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and pediatric prosthetics; • Modern endodontics**; • Gnathology and functional diagnosis of the temporal mandibular joint;

			<ul style="list-style-type: none"> • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics; • Aesthetic restoration of teeth**; • Dentist assistant (pediatric); • Assistant dentist (general practice), incl. scientific research work;
10	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; • Hygiene; • Psychology, pedagogy; • Local anesthesia and anesthesiology in dentistry; 	<ul style="list-style-type: none"> • Maxillofacial and gnathic surgery; • Head and neck diseases; • Implantology and reconstructive surgery of the oral cavity; • Orthodontics and pediatric prosthetics; • Dental assistant (general practice), incl. research work;

* - filled in accordance with the matrix of competencies of higher education programme.

** - elective subjects/practices

4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total complexity of the discipline " **Pediatric Dentistry** " is **4** credit units.

Table 4.1. Types of academic activities during the period of the HE program mastering

Type of academic activities	TOTAL, academic hours (ac.h.)	Semester(s)	
		7	8
Classroom learning, ac.h.	82	48	34
including:			
Lectures (Lec)	-	-	-

Type of academic activities	TOTAL, academic hours (ac.h.)	Semester(s)	
		7	8
Lab work (Lab)	82	48	34
Practical/seminar classes	-	-	-
Self-studies, academic hours	41	21	20
Evaluation and assessment (exam or pass/fail grading)	21	3	18
Total workload of the discipline	ac.h.	144	72
	credits	4	2

5. THE COURSE MODULES AND CONTENTS

Table 5.1. The content of the discipline and types of academic activities

Name of the discipline section	Section content	Type of academic activities
Section 1. Dental caries in children.	Topic 1.1. Anatomical and physiological features of teeth structure in children. Methods of examining a child in the clinic of pediatric therapeutic dentistry.	Lab
	Topic 1.2. Etiology and pathogenesis of dental caries in children. Classification of caries. Clinical features of dental caries in children of different age groups. Diagnostic methods. Enamel caries of temporary and permanent teeth in children.	Lab
	Topic 1.3. Caries of the dentin of temporary and permanent teeth. Caries cement temporary and permanent teeth. Diagnostics and treatment.	Lab
	Topic 1.4. Suspended dental caries. Complications in the treatment of dental caries in children. Prevention of caries.	Lab
Section 2. Non-carious lesions of dental tissues.	Topic 2.1. Pathology of hard tissues of the tooth during their follicular development. Systemic enamel hypoplasia (SEH). local hypoplasia. Tetracycline teeth. Other types of SEH. Endemic dental fluorosis. Diagnostics. Treatment.	Lab
	Topic 2.2. Hereditary developmental disorders of dental tissues. Hereditary amelogenesis imperfecta. Dentin imperfecta and odontogenesis.	Lab
Section 3. Pulpitis in children.	Topic 3.1. Anatomical and physiological features of the pulp of temporary and permanent teeth in children of different ages. Etiology and pathogenesis of pulpitis. Classification of pulpitis.	Lab
	Topic 3.2. Methods for assessing the condition of the pulp in children. Methods of Diagnosis and treatment of pulpitis of temporary and permanent teeth in children.	Lab
	Topic 3.3. Conservative method of treatment of pulpitis of temporary and permanent teeth in children. Non-vital method of treatment of pulpitis of temporary and permanent teeth in	Lab

	children.	
	Topic 3.4. Treatment of pulpitis in children under anesthesia. Errors and complications in the diagnosis and treatment of pulpitis in children.	Lab
Section 4. Apical periodontitis in children	Topic 4.1. Anatomical and physiological features of the periodontal ligament (PDL) of temporary and permanent teeth in children of different periods of tooth formation. Etiology and pathogenesis of apical periodontitis. Classification of apical periodontitis.	Lab
	Topic 4.2. Clinical manifestation of apical periodontitis in children. Diagnosis and differential diagnosis of apical periodontitis.	Lab
	Topic 4.3. Treatment of apical periodontitis of temporary teeth in children. Treatment of apical periodontitis of permanent teeth in childhood.	Lab
	Topic 4.4. Long-term results of treatment of apical periodontitis in children. Emergency dental care for children.	Lab
Section 5. Traumatic injuries of teeth in children.	Topic 5.1. Traumatic injuries of teeth in children.	Lab
Section 6. Diseases of the oral mucosa in children.	Topic 6.1. Anatomical and physiological features of the oral mucosa in children. Classification of diseases of the oral mucosa. Traumatic damage to the oral mucosa.	Lab
	Topic 6.2. Acute herpetic stomatitis in children. Recurrent herpetic stomatitis. Herpangina. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Streptococcal and Staphylococcal lesions of the lips and skin of the perioral region.	Lab
	Topic 6.3. Acute infectious diseases on the oral mucosa in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment.	Lab
	Topic 6.4. The state of the oral mucosa in children with diseases of internal organs and systemic diseases.	Lab
	Topic 6.5. Manifestations of drug and bacterial allergies in the oral cavity in children.	Lab
	Topic 6.6. Candidiasis in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Damage to the oral mucosa in children caused by tuberculosis and syphilitic infection. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Manifestation of HIV infection in the oral cavity in children.	Lab
	Topic 6.7. Cheilitis , glossitis in children.	Lab

Section 7. Periodontal Diseases in Children.	Topic 7.1. Anatomical and physiological features of the periodontium in children. Periodontal disease in childhood. Classification of periodontal diseases.	Lab
	Topic 7.2. Inflammatory periodontal disease in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Histiocytosis of Langerhans cells . Idiopathic diseases with progressive lysis of periodontal tissues. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, principles of treatment.	Lab

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

Table 7.1. Logistical and material provision of the discipline.

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
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)
Learning Lab	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;
Classroom for students' self-studies	Classroom for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the internet.	

8. RECOMMENDED SOURSES for COURSE STUDIES

Main literature:

1. Pediatric therapeutic dentistry. National leadership / ed. VC. Leontiev, L.P. Kiselnikova. – 2nd ed., revised and supplemented. - M., GEOTAR-Media, 2017. - 952 p.: ill. - ISBN 978-5-9704-4019-3.
2. Kosyuga, S. Yu. Textbook on practical training in pediatric dentistry therapy for foreign dental students / S. Yu. Kosyuga. – Нижний Новгород : Publishing House of Privolzhsky Research Medical University, 2022. – 92 p. – ISBN 978-5-7032-1453-4. – EDN GUNUJX.
3. Children's dentistry: textbook / ed. O.O. Yanushevich, L.P. Kiselnikova, Shch.Z. Topolnitsky. - M.: GEOTAR-Media, 2020. - 744 p.: ill. - ISBN 978-5-9704-5318-6.

Additional literature:

1. Vinogradova T.F. Atlas of dental diseases in children: Study guide / T.F. Vinogradov. - M.: MEDpress-inform, 2007. - 167 p.: ill. - ISBN 5-98322-244-9.
2. Dental caries in childhood. Modern methods of diagnosis and treatment: textbook / A.E. Anurova, T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan. - Moscow: RUDN University, 2017. - 95 p.: ill.
3. Modern methods of diagnosis and treatment of pulpitis in children: textbook / A.E. Anurova, O.M. Davidyan, T.F. Kosyreva, V.V. Safroshkin. - Moscow: RUDN University, 2016. - 72 p.: ill.
4. Diseases of the mucous membrane of the oral cavity and lips in children / edited by L.N. Kazari-noy . - Nizhny Novgorod: Publishing house NGMA.m2004. - 264s.
5. Handbook of Pediatric Dentistry / ed. A.Cameron, R.Widmer.- M.: "MEDpress-inform", 2003.- 287p.
6. Dental trauma in children [Electronic resource]: Educational and methodological manual / Comp.: T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan, E.S. Zaporozhskaya-Abramova. - Electronic text data. - M. : Publishing House of RUDN University, 2014. - 40 p. - ISBN 978-5-209-05964-6.
7. Pharmacotherapy in pediatric dentistry [text] / E.V. Zoryan // Clinical Dentistry. - 2012. - No. 2. - S. 6 - 10 .
8. Drugs in pediatric dentistry: textbook /. - Minsk: Higher School, 2017. - 320 p. - Bibliography: p. 305 - ISBN 978-985-06-2717-9 ; The same [Electronic resource]. - URL: <http://biblioclub.ru/index.php?page=book&id=480060> (04/08/2019).
9. Alnassar I, Altinawi M K, Rekab M, et al. (November 22, 2022) Evaluation of Bioceramic Putty in Pulpotomy of Immature Permanent Molars With Symptoms of Irreversible Pulpitis. Cureus 14(11): e31806. DOI 10.7759/cureus.31806
10. Mohamad Nabil Hamod, Chaza Kouchaji, Faten Rostom, Hasan Alzoubi, Imad Katbeh, Nikolay Tuturov, "Evaluation of the Efficacy of Nasal Sedation Midazolam Compared with Dexmedetomidine in the Management of Uncooperative Children with Down Syndrome during Dental Treatment", International Journal of Dentistry, vol. 2022, Article ID 7344928, 6 pages, 2022. <https://doi.org/10.1155/2022/7344928>

11. Alhuda DA, Rajab A, Shaadouh R, Katbeh I, Tuturov N, Arrag EA. Efficacy evaluation of pepsin enzyme-based gel in chemo-mechanical caries removal on primary anterior teeth: a randomized controlled clinical study. *Brazilian Dental Science*. 2022 Dec 19;25(4): e3538. DOI: 10.4322/bds.2022.e3538
12. The Effect of Intravenous Deep Sedation on Behaviour of Non Cooperative Children in the Dental Office-An Interventional Study / Mhd Raslan Alzein, Mohamed Altinawi, Faten Rostom, Imad Katbeh, et al. // *Journal of Clinical and Diagnostic Research*. 2021 Jul, Vol-15(7): ZC10-ZC13/ doi:10.7860/JCDR/2021/48852.15125
13. General anesthesia and sedation in pediatric dentistry [Electronic resource]: A guide. - M. : GEOTAR-Media, 2007. - 184 p. - ISBN 978-5-9704-0505-5.

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

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/>

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.elscience.ru/products/scopus/>

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

1. A course of lectures on the discipline "**Pediatric Dentistry**".
2. Methodological Guidelines for the implementation and execution of control and independent work on the discipline "**Pediatric Dentistry**"

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline **in TUIS** (the university telecommunication educational and information system).

9. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation Toolkit (ET) and a point-rating system (PRS)* for assessment the level of competence formation (part of competencies) based on the results of mastering the discipline "**Pediatric Dentistry**" are presented in the Appendix to this Work Program of the discipline.

* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

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