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**Federal State Autonomous Educational Institution for Higher Education  
Peoples' Friendship University of Russia  
RUDN University**

## **Medical Institute**

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(Educational division)

## **COURSE SYLLABUS**

### **PEDIATRICS**

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(Course name)

**Recommended by the Didactic council for the Education field (specialty)**

#### **31.05.03 Dentistry**

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(Education field (specialty) code and title)

**Mastery of the course is carried out within the framework of the implementation of  
the main professional Higher Education Programme (HEP):**

#### **31.05.03 Dentistry**

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(Higher education field (profile/specialisation) title)

## 1. COURSE AIMS

The discipline “Pediatrics” is included in the specialty program “Dentistry” in the field 05.31.03 “Dentistry” and is studied in the 9th semester in the 5th year. The discipline is implemented by the Department of Pediatrics. The discipline consists of 3 sections and 18 topics and is aimed at studying and improving basic, fundamental medical knowledge in the field of pediatrics, forming the professional competencies of a doctor capable of successfully solving professional problems.

The goal of mastering the discipline is to train qualified doctors with theoretical and practical knowledge, skills and abilities in the field of diagnosis, emergency care, treatment tactics, medical examination and prevention of the most common diseases in children and adolescents.

## 2. REQUIREMENTS OF COURSE LEARNING OUTCOMES

The discipline “Pediatrics” is aimed at developing the following competencies (parts of competencies) in students:

*Table 2.1. The list of competencies formed by students during course of study (learning outcomes)*

<b>Competence code</b>	<b>Competence</b>	<b>Indicators of Competence Formation (within the framework of this discipline)</b>
GPC-12	Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	GPC-12.1. Develops optimal tactics for the treatment of dental pathology in children and adults taking into account the general somatic disease and further rehabilitation of the patient.
GPC-5	Able to examine patients to determine a diagnosis while carrying out professional duties	GPC-5.8. Conducts a differential diagnosis with other diseases/conditions, including urgent ones.
GPC-6	Able to prescribe non-pharmacological and pharmacological treatment, as well as monitor its efficacy and safety while performing professional duties	GPC-6.1. Develops a plan of treatment of dental disease 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 standards of medical care. GPC-6.6. Organizes personalized treatment of a dental patient, including elderly and senile patients, pregnant women, children with somatic pathologies; evaluates the efficacy and safety of treatment.

### 3. COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Pediatrics**" refers to the Compulsory Disciplines of block B1 of the EP HE.

Within the framework of the Educational Programme, students also master other disciplines and/or practicals that contribute to the expected learning outcomes of the course "**Pediatrics**".

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

Competence code	Competence	Previous disciplines/modules, practicals*	Subsequent disciplines/modules, practicals*
<b>GPC-5</b>	Able to examine patients to determine a diagnosis while carrying out professional duties	Dentist's (orthopedist) assistant; Dermatovenerology; Pediatric dentistry; Dental prosthetics (simple prosthetics); Cariesology and diseases of hard dental tissues; Local anesthesia and anesthesiology in dentistry; General surgery; Orthodontics and pediatric prosthetics; Propaedeutics of dental diseases; Dental prosthetics (complex prosthetics); Prosthetics in complete absence of teeth; Surgical diseases; Oral surgery; Maxillofacial and gnathic surgery; Internal diseases; Neurology; Periodontology; Psychiatry and Narcology; Endodontics; Ophthalmology; Emergency conditions in outpatient dental practice;	Gnathology and functional diagnostics of the temporomandibular joint; Pediatric maxillofacial surgery; Maxillofacial and gnathic surgery; Maxillofacial prosthetics; Geriatric dentistry and diseases of the oral mucosa; Implantology and reconstructive surgery of the oral cavity;

		Pathological anatomy – Pathological anatomy of the head and neck; Obstetrics;	
<b>GPC-6</b>	Able to prescribe non-pharmacological and pharmacological treatment, as well as monitor its efficacy and safety while performing professional duties	Dermatovenerology; Pediatric dentistry; Dental prosthetics (simple prosthetics); Immunology, clinical immunology; Cariesology and diseases of hard dental tissues; General surgery; Orthodontics and pediatric prosthetics; Dental prosthetics (complex prosthetics); Prosthetics in complete absence of teeth; Surgical diseases; Oral surgery; Maxillofacial and gnathic surgery; Fundamentals of military training. Safety of life Internal diseases; Neurology; Periodontology; Psychiatry and Narcology; Endodontics; Pharmacology; Materials Science; Obstetrics; Emergency conditions in outpatient dental practice;	Gnathology and functional diagnostics of the temporomandibular joint; Pediatric maxillofacial surgery; Implantology and reconstructive surgery of the oral cavity; Clinical dentistry; Maxillofacial and gnathic surgery; Maxillofacial prosthetics; Geriatric dentistry and diseases of the oral mucosa; Clinical pharmacology;
<b>GPC-12</b>	Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	Maxillofacial and gnathic surgery;	Clinical dentistry; Maxillofacial and gnathic surgery; Maxillofacial prosthetics;

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total course workload of the discipline “**Pediatrics**” is equal to 3 credits.

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

Types of academic activities		TOTAL, academic hours	Semester(s)
			9
<i>Classroom learning, academic hours</i>		64	64
Lectures (L)		0	0
Lab work (LW)		64	64
Seminars (workshops/tutorials) (S)		0	0
<i>Self-study, academic hours</i>		26	26
<i>Evaluation and assessment (exam or pass/fail grading), academic hours</i>		18	18
Total course workload	academic hours	108	108
	credits	3	3

#### 5. COURSE CONTENTS

Table 5.1. Course content (modules) according to type of academic activity

	Module name	Module content (topics)		Type of academic activities
<b>Module 1</b>	Patterns of growth and development of children	<b>1.1.</b>	Periods of childhood. Physical, neuropsychological and sexual development of children. Criteria of classification of childhood into periods. Criteria of assessment of normal development and its abnormalities. Features of dental treatment of children with attention deficit disorder.	<b>LW</b>
		<b>1.2.</b>	Physical development	<b>LW</b>
		<b>1.3.</b>	Features of the formation of the dental system in childhood	<b>LW</b>
		<b>1.4.</b>	Anatomical and physiological features of the musculoskeletal system. Diseases of the musculoskeletal system (Rickets)	<b>LW</b>
<b>Module 2</b>	The main somatic diseases of children	<b>2.1.</b>	The newborn baby. Borderline states of the newborn. Prematurity. IUGR. Perinatal CNS injury. Neonatal infections. Candidal stomatitis. Neonatal jaundice.	<b>LW</b>

	<b>Module name</b>	<b>Module content (topics)</b>		<b>Type of academic activities</b>
		<b>2.2.</b>	The child with cough. Bronchitis, pneumonia, cystic fibrosis. Features of dental care for children with chronic bronchopulmonary diseases	<b>LW</b>
		<b>2.3.</b>	Bronchial asthma. Allergic rhinitis. Atopic dermatitis. Clinical and diagnostic signs of allergic diseases of the oral mucosa in children.	<b>LW</b>
		<b>2.4.</b>	Congenital heart defects. Minor developmental anomalies. Non-rheumatic carditis. Infectious endocarditis. Antibacterial prevention of infectious endocarditis in dental treatment. Juvenile arterial hypertension. Features of dental care for children with heart and vascular diseases.	<b>LW</b>
		<b>2.5.</b>	Diseases of the urinary system. Urinary tract infections. Glomerulonephritis. Changes in the oral cavity in chronic kidney disease.	<b>LW</b>
		<b>2.6.</b>	Diseases of the gastrointestinal tract. Dental aspects of gastroenterological diseases.	<b>LW</b>
		<b>2.7.</b>	Endocrine diseases. Chronic eating disorders. Diabetes mellitus. Diseases of the thyroid gland. Features of the development of the dental system in nutritional and metabolic disorders of children.	<b>LW</b>
<b>Module 3</b>	Pediatric infectious diseases	<b>3.1.</b>	Exanthema: measles, rubella, parvovirus infection.	<b>LW</b>
		<b>3.2.</b>	Enterovirus infections. Poliomyelitis	<b>LW</b>
		<b>3.3.</b>	Mumps, diphtheria	<b>LW</b>
		<b>3.4.</b>	Meningeal syndrome. Bacterial and viral meningitis. Meningococcal infection..	<b>LW</b>
		<b>3.5.</b>	Streptococcal infection. Scarlet fever. Yersiniosis. Pseudotuberculosis.	<b>LW</b>
		<b>3.6.</b>	Herpes infection.	<b>LW</b>
		<b>3.7.</b>	Acute intestinal infections. Hemolytic uremic syndrome	<b>LW</b>

\* - created for **FULL-TIME** study only: L – lectures; LW – lab work; S – seminars/workshops

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

*Table 6.1 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
Laboratory	A classroom for conducting seminar-type classes, group and individual consultations, continuous assessments and mid-term assessment, equipped with a set of specialized furniture and multimedia presentation equipment.	Set of specialized furniture; technical equipment: NEC VT59 multimedia projector, ASUS X50M and Dell Latitude D631 laptops, there is Internet access. Software: Microsoft products (OS, office application package, including MS Office / Office 365, Teams, Skype).
Classroom for students' self-study	Classroom for students' independent work (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIES.	

## 7. RECOMMENDED SOURCES for COURSE STUDIES

### *Main reading*

1. Robert M. Kliegman, Brett J. Bordini, Heather Toth et al. Nelson Pediatric Symptom-Based Diagnosis: Common Diseases and their Mimics. Elsevier, 2022. ISBN 978-0-323-76174-1. DOI: <https://doi.org/10.1016/C2019-0-01335-0>
2. Sarah S. Long. Principles and Practice of Pediatric Infectious Diseases. Elsevier, 2022. ISBN 978-0-323-75608-2. DOI <https://doi.org/10.1016/C2019-0-00075-1>

### *Additional reading:*

2. Neonatal and Pediatric Cerebro-Cardiopulmonary Resuscitation / Michael Shoykhet [et al.]. 2018. 1 c. ISBN 9782889456598 URL:

<https://www.frontiersin.org/research-topics/4942/neonatal-and-pediatric-cerebro-cardio-pulmonary-resuscitation-ccpr>

3. Wynn J.L., Bliss J.M.. The Neonatal Immune System: A Unique Host-Microbial Interface, 2018. 1 c. ISBN 9782889454037 URL: <https://www.frontiersin.org/research-topics/5017/the-neonatal-immune-system-a-unique-host-microbial-interface>
4. Lissauer Tom. Illustrated Textbook of Paediatrics / T. Lissauer, W. Carrol. - Fifth Edition - China : Elsevier, 2017. - 583 p.: il. - ISBN 978-0-7234-3871-7: 6113.30.
5. Soumen Khatua (Ed.), Natasha Pillay Smiley (Ed.). Update in Pediatric Neuro-Oncology, 2019. 1 c. ISBN 9783038975397 URL: <https://www.mdpi.com/books/pdfview/book/1112>.
6. Giovanni Biglino, Adelaide de Vecchi. Ventricular Mechanics in Congenital Heart Disease, 2017. 1 c. ISBN 9782889452644 URL: <http://journal.frontiersin.org/researchtopic/4933/ventricular-mechanics-in-congenital-heart-disease>
7. Tammy M. Brady, Ibrahim F. Shatat. Pediatric Hypertension: Update, 2018. 1 c. ISBN 9782889456543 URL: <https://www.frontiersin.org/research-topics/5269/pediatric-hypertension-update>
8. Stefan J. Friedrichsdorf (Ed.). Pediatric Palliative Care, 2019. 1 c. ISBN 9783038973508 URL: <https://www.mdpi.com/books/pdfview/book/1130>
9. Carlo Caffarelli, Luis Garcia-Marcos, Kostas N. Priftis. The Parallel March of Asthma and Allergy in Childhood: A Multi-Perspective Approach, 2018. 1 c. ISBN 9782889455294 URL: <https://www.frontiersin.org/research-topics/4997/the-parallel-march-of-asthma-and-allergy-in-childhood-a-multi-perspective-approach>
10. Frederick Jeffrey Kaskel, Agnieszka Swiatecka-Urban, Robert P. Woroniecki. Nephrotic Syndrome in Pediatric Patients, 2017. 1 c. ISBN 9782889452989 URL: <https://www.frontiersin.org/research-topics/3714/nephrotic-syndrome-in-pediatric-patients>

### ***Internet-(based) sources***

1. Electronic libraries with access for RUDN students:

- Electronic library network of RUDN – ELN RUDN <http://lib.rudn.ru/MegaPro/Web>
- ELN “University library online” <http://www.biblioclub.ru>
- ELN Urait <http://www.biblio-online.ru>
- ELN «Student Advisor» [www.studentlibrary.ru](http://www.studentlibrary.ru)
- ELN «Lan» <http://e.lanbook.com/>
- ELN «Троицкий мост»

2. Databases and search engines:

- electronic database of legal, regulatory and 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.elsevierscience.ru/products/scopus/>



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

1. Course of video lectures and presentations on the discipline “Pediatrics”.
2. Methodological guidelines for the implementation and execution of control and independent work on the discipline “Pediatrics”.

\* - All teaching materials for self- studies of students are placed in accordance with the current procedure on the discipline page in RUDN LMS TUIS.

## **8. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT**

Assessment materials and grading system\* for the evaluation of achieved competency levels (parts of competences) for the learning outcomes of the discipline “Pediatrics” are presented in the Appendix to this Work Program of the discipline.

\* - assessment and grading systems are based on the corresponding local regulatory act of RUDN University

### **DEVELOPERS:**

Assistant lecturer, Department of  
Pediatrics

Position, ED

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Signature

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\_\_\_\_\_  
Surname, Initials.

Associate Professor, Department of  
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### **HEAD OF DEPARTMENT**

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### **HEAD OF HIGHER EDUCATION PROGRAMME**

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