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

Institute of Medicine

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

COURSE SYLLABUS

Pediatrics

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 profile/specialisation title

2022-2023

1. COURSE GOAL(s)

The goal of the course "**Pediatrics**" is to equip students with theoretical and practical knowledge, skills and competence in the area of diagnostics, emergency care, management, clinical examination and prevention of the most common diseases of childhood and adolescence, that are capable of, and ready for independent professional activity.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The mastering of the course "**Pediatrics**" is aimed at the formation of the following competencies of students: **(GPC) – 5, (GPC) – 6, (GPC) – 12.**

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-5	Able to conduct a patient examination in order to establish a diagnosis while carrying out professional tasks	GPC-5.8. Conducts differential diagnosis with other diseases/conditions, including urgent ones.
GPC-6	Able to prescribe, as well as monitor the effectiveness and safety of non-pharmacological and pharmacological treatment while carrying out professional tasks	GPC-6.1. Develops a plan for the 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 the standards of medical care.
		GPC-6.6. Organizes personalized treatment of dental patients, including elderly and aged patients, pregnant women, children with somatic pathologies, and evaluates the effectiveness and safety of treatment
GPC-12	Able to implement and monitor the effectiveness of medical rehabilitation of dental patients	GPC-12.1. Develops optimal treatment tactics of dental pathology in children and adults, taking into account the general somatic disease and further rehabilitation of the patient.

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

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC-5	Ability to conduct a patient examination in order to establish a diagnosis while carrying out professional tasks	Internal diseases, clinical pharmacology, radiology, medical rehabilitation dermatovenerology, neurology, ophthalmology	Propaedeutics, local anesthesia and anesthesiology in dentistry, oral surgery, dental prosthetics, maxillofacial and gnathic surgery, diseases of the head and neck, pediatric maxillofacial surgery
GPC-6	Ability to prescribe, as well as monitor the effectiveness and safety of non-pharmacological and pharmacological treatment while carrying out professional tasks	Internal diseases, clinical pharmacology, radiology, medical rehabilitation dermatovenerology, neurology, ophthalmology	Propaedeutics, local anesthesia and anesthesiology in dentistry, oral surgery, dental prosthetics, maxillofacial and gnathic surgery, diseases of the head and neck, pediatric maxillofacial surgery
GPC-12	Ability to implement and monitor the effectiveness of medical rehabilitation of dental patients	Internal diseases, clinical pharmacology, radiology, medical rehabilitation dermatovenerology, neurology, ophthalmology	Propaedeutics, local anesthesia and anesthesiology in dentistry, oral surgery, dental prosthetics, maxillofacial and gnathic surgery, diseases of the head and neck, pediatric maxillofacial surgery

* 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 “Pediatrics” is 3 credits (108 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering

Type of academic activities	Total academic hours	Semesters/training modules			
		9			
<i>Contact academic hours</i>	64	64			
including:					
Lectures (LC)	-	-	-	-	
Lab work (LW)					
Seminars (workshops/tutorials) (S)	64	64			
<i>Self-studies</i>	26	26			
<i>Evaluation and assessment (exam/passing/failing grade)</i>	18	18			
Course workload	academic hours_	108	108		
	credits	3	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
Module 1 Patterns of growth and development of children	1.1. 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.	S
	1.2. WHO physical development	S
	1.3. Features of the formation of the dental system in childhood	S
	1.4. Anatomical and physiological features of the musculoskeletal system. Diseases of the musculoskeletal system (Rickets)	S
Module 2 The main somatic diseases of children	2.1. The newborn baby. Borderline states of the newborn. Prematurity. IUGR. Perinatal CNS injury. Neonatal infections. Candidal stomatitis. Neonatal jaundice.	S
	2.2. The child with cough. Bronchitis, pneumonia, cystic fibrosis. Features of dental care for children with chronic bronchopulmonary diseases	S
	2.3. Bronchial asthma. Allergic rhinitis. Atopic dermatitis. Clinical and diagnostic signs of allergic diseases of the oral mucosa in children.	S
	2.4. 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.	S
	2.5. Diseases of the urinary system. Urinary tract infections. Glomerulonephritis. Changes in the oral cavity in chronic kidney disease.	S
	2.6. Diseases of the gastrointestinal tract. Dental aspects of gastroenterological diseases.	S
	2.7. Endocrine diseases. Chronic eating disorders. Diabetes mellitus. Diseases of the thyroid gland. Features of the development of the dental system in eating and metabolic disorders of children.	S
Module 3 Pediatric infectious diseases	3.1. Exanthema: measles, rubella, parvovirus infection.	S
	3.2. Enterovirus infections. Poliomyelitis	S
	3.3. Mumps, diphtheria	S

Course module title	Course module contents (topics)	Academic activities types
	3.4. Meningeal syndrome. Bacterial and viral meningitis. Meningococcal infection..	S
	3.5. Streptococcal infection. Scarlet fever. Yersiniosis. Pseudotuberculosis. Multisystem inflammatory syndrome in children.	S
	3.6. Herpes infection.	S
	3.7. Acute intestinal infections. Hemolytic uremic syndrome	S

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)
Seminar	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).
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 EIES.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Practicum in pediatrics: A manual for students of the 5th year / Edited by D.Yu. Ovsyannikov, M.G. Kantemirova. - M.: RUDN, 2013. - 201 p. - ISBN 978-5-209-05482-5:89.77.

Additional readings:

1. Pediatric Integrative Medicine: An Emerging Field of Pediatrics, 2015. 1 c. ISBN 9783038420620 URL: <http://books.mdpi.com/pdfview/book/121>

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 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
- 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/>

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

1. The set of lectures on the course “Pediatrics”

* 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 (GPC) – 5, (GPC) – 6, (GPC) – 12) 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).

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