

SYLLABUS

concerning the cycle of education 2022-2028

(date range)

**1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE**

Subject / Module	<b>Pediatrics</b>
Course code / module *	<b>Pd - E</b>
Faculty of (name of the leading direction)	<b>Medical College of Rzeszów University</b>
Department Name	<b>Medical College of Rzeszów University</b>
Field of study	<b>medical direction</b>
Level of education	<b>uniform master's studies</b>
Profile	<b>practical</b>
Form of study	<b>stationary / extramural</b>
Year and semester	<b>year V, semester X</b>
Type of course	<b>obligatory</b>
Coordinator	<b>Dr n. med. Radosław Chaber</b>
First and Last Name of the Teacher	<b>prof. dr hab. Artur Mazur, dr hab. Bartosz Korczowski prof. UR, dr hab. Jacek Tabarkiewicz, prof. UR, dr Elżbieta Czyżyk, dr Witold Błaż, dr Radosław Chaber, lek Jakub Musiał, lek Anna Tomoń, lek Szymon Figurski, dr Marta Rachel, lek. Anna Mach-Jamińska, lek. Małgorzata Dąbrowska, dr Krystyna Piasecka, dr Józef Rusin, dr Hanna Czajka</b>

\* - According to the resolutions of the Faculty of Medicine

**1.2. Forms of classes, number of hours and ECTS**

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
12	21	-	-	15	-	-	30	3

**1.3. The form of class activities**

classes are in the traditional form

classes are implemented using methods and techniques of distance learning

**1.4. Examination Forms / module (exam, credit with grade or credit without grade)**

**2. REQUIREMENTS**

Knowledge of topographic and functional human anatomy, knowledge of neuroanatomy, physiology and pathophysiology of the child.

### 3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

#### 3.1. Objectives of this course/module

C1	Acquiring general theoretical and practical basics in the field of pediatrics.
C2	Mastering the skills of collecting medical history, physical examination of a child.
C3	Mastering the practical proceedings with a child coming to the children's clinic (healthy and sick child).
C4	Acquiring the ability to treat outpatient childhood anemia, dealing with a child suffering from hemorrhagic diathesis, cancer, after bone marrow transplantation.
C5	Mastering the basics of interpretation of additional research in hematology, neurology and pediatric rheumatology

#### 3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	knows the environmental and epidemiological conditions of the most common diseases	E.W1.
EK_02	knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: a) growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty disorders and gonadal function, b) rickets, tetany, convulsions, c) genetic syndromes, d) discuss pathophysiology and clinical symptoms of diseases and life-threatening conditions of newborn and premature babies;	E.W3.
EK_03	knows the most frequent conditions of life threat in children, and the rules for dealing with these situations	E.W6.
EK_04	conducts a medical history with the child and his family;	E.U2.
EK_05	performs physical examination of a child of all ages;	E.U4.
EK_06	assesses the state of the newborn in the Apgar scale and assesses its maturity, investigates neonatal reflexes;	E.U8.
EK_07	compiles anthropometric and blood pressure measurements with data on centile grids;	E.U9.

EK_08	evaluates the degree of advancement of sexual maturation;	E.U10.
EK_09	performs differential diagnosis of the most common diseases of children;	E.U12.
EK_10	recognizes states of immediate life threat;	E.U14.
EK_11	plans diagnostic, therapeutic and prophylactic procedures;	E.U16.
EK_12	interprets laboratory tests and identifies causes of deviations;	E.U24.
EK_13	plans specialist consultations;	E.U32.
EK_14	keeps the patient's medical records.	E.U38.
EK_15	can establish and maintain a deep and respectful contact with the patient	K.01.
EK_16	he is guided by the good of the patient, placing them in the first place	K.02.
EK_17	respects medical confidentiality and patient's rights	K.03.

### 3.3 CONTENT CURRICULUM (filled by the coordinator)

#### A. Lectures

<b>Course contents</b>
Basic symptoms and differential diagnosis in pediatric endocrinology and diabetology: deficiency of growth, disturbed growth, zwitteria genitalia, disturbed puberty. Thyroid disease
Diabetes
Basic symptoms and differential diagnosis in neonatology: jaundice, cyanosis, convulsions, tachypnoea, vomiting, hypotonia. Birth defects in newborns.
Jaundice of the neonatal period

#### B. Exercises

Course contents
Hyperthyroidism and hypothyroidism
Hormonal causes of shortage of growth
Menstrual disorders
Hyperactivity and hypoparathyroidism
Disorders of calcium-phosphate economy. Wincres.
Cushington team. Hyperalosteronizm. Adrenal and genital syndrome. Adrenal insufficiency

Straight wand.SIADH
Type I diabetes and other forms of diabetes
Acute respiratory failure in newborns: division of respiratory failure (ventilation disorders, diffusion and perfusion disorders, mixed forms) causes of respiratory failure, management indications for passive oxygen therapy and replacement breathing meconium aspiration syndrome) respiratory distress syndrome (RDS) in premature babies
Birth defects in the newborn
A newborn baby with low birth weight.
Newborn diagnostics. Apgar scale.
Haemolytic disease of newborns. Hemorrhagic diathesis of newborns
[Electrolyte and glycemic disorders in newborns]
Neonatal infections. NEC.
Lung disease of the newborn. Broncho-pulmonary dysplasia
Circulatory disorders in the newborn. Congenital heart defects.
Convulsions in newborns. Bleeding

### C. Seminars

<b>Course contents</b>
Diagnostic methods in genetics.
The main symptoms of dimorphic syndromes
The most common trisomie - s. Down, chormosome -18; 13
Klinefelter team
Turner's team
The most frequent other genetic syndromes

### 3.4 TEACHING METHODS

**Lecture:** multimedia presentation.

**Exercises:** case analysis, interpretation of diagnostic tests.

**Student's own work:** work with a book

## 4 METHODS AND EVALUATION CRITERIA

### 4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
EK_01	Exam.	Lecture + Exercises
EK_02	Written and oral test	Exercises, Seminars
EK_03		
EK_04		
EK_05	Practical pass	Exercises
EK_06		
EK_07		
EK_08		
EK_09		
EK_10		
EK_11		
EK_12		
EK_13		
EK_14		
EK_15		
EK_16		
EK_17		

#### 4.2 Conditions for completing the course (evaluation criteria)

<p><b>Exercises, seminars:</b></p> <ol style="list-style-type: none"> <li>1. full participation and activity in the exercises</li> <li>2. written partial credits</li> </ol> <p>Range of ratings: 2.0 - 5.0</p> <p><b>Lectures:</b></p> <ol style="list-style-type: none"> <li>1. test pass and open questions:</li> </ol> <p>A: Questions in the field of messages to remember; B: Questions in the field of speech to understand;</p> <p>C: Solving a typical written task; D: Solving an atypical writing task;</p> <p>for insufficient solution of tasks only from areas A and B = score 2.0</p> <ul style="list-style-type: none"> <li>- for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0</li> <li>- for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0</li> <li>- for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0</li> </ul> <p>Final exam in the subject of pediatrics: test of choice, oral exam covering theoretical and practical issues and case study.</p> <p><b>Knowledge assessment:</b></p> <p>5.0 - has knowledge of the education content at the level of 93% -100%</p>
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- 4.5 - has knowledge of the content of education at the level of 85% -92%
- 4.0 - has knowledge of the content of education at the level of 77% -84%
- 3.5 - has knowledge of the content of education at the level of 69% -76%
- 3.0 - has knowledge of the content of education at the level of 60% -68%
- 2.0 - has knowledge of the educational content below 60%

#### **Skill assessment**

5.0 - the student actively participates in classes, is well prepared, has acquired theoretical and practical knowledge in the field of pediatrics. To a very good extent, he mastered the skills of collecting medical history, physical examination of the child

4.5 - the student actively participates in classes, has acquired theoretical and practical knowledge in the field of pediatrics at a very good level. He successfully mastered the skills of collecting medical history, physical examination of the child.

4.0 - the student actively participates in classes, is improved, he has acquired theoretical and practical knowledge in the field of pediatrics to a good degree. He successfully mastered the skills of collecting medical history, physical examination of the child

3.5 - the student participates in the classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem in the field of paediatrics. He sufficiently mastered the skills of collecting medical history, physical examination of the child

3.0 - the student participates in the classes, sufficiently acquired theoretical and practical knowledge in the field of pediatrics. He mastered the skills of collecting medical history, physical examination of the child, however, it is often corrected.

2.0 - the student passively participates in classes, the statements are incorrect in substance, theoretical and practical knowledge in the field of pediatrics is not sufficient. He has not mastered the skills of collecting medical history, physical examination of the child, frequently made mistakes.

#### **5. Total student workload required to achieve the desired result in hours and ECTS credits**

Activity	Hours / student work
Hours of classes according to plan with the teacher	48
Preparation for classes	5
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	25
Participation in colloquia	<b>1</b>
Other (e-learning)	-
<b>SUM OF HOURS</b>	<b>81</b>

TOTAL NUMBER OF ECTS	<b>3</b>
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**6. TRAINING PRACTICES IN THE SUBJECT / MODUL**

Number of hours	
Rules and forms of apprenticeship	

**6. LITERATURE**

<p><b>READING:</b></p> <ol style="list-style-type: none"> <li>1. Pediatria tom 1-2 Wanda Kawalec, Ryszard Grenda, Helena Ziółkowska, Ewa Bernatowska, Mieczysław Chmielik, Mieczysława Czerwionka-Szaflarska PZWL, 2013, 1329 str.</li> <li>2. Pediatria do LEK i PES. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego). Anna Dobrzańska, Jozef Ryzko Elsevier Urban &amp; Partner, 2014, 1092 str.</li> </ol>
<p>Additional literature:</p> <ol style="list-style-type: none"> <li>1. Nelson Pediatria - Tom 1-2 (komplet) Karen Marcdante, Robert M. Kliegman, Hal B. Jenson, Richard E. Behrman, red. wyd. pol. Andrzej Milanowski Elsevier Urban &amp; Partner, 2013, 798 str.</li> <li>2. Badanie kliniczne w pediatrii - atlas i podręcznik tom 1-2 komplet Basil J. Zitelli, red. wyd. pol. Anna Dobrzańska Elsevier Urban &amp; Partner, 2014, 1006 str.</li> <li>3. Od objawu do nowotworu Wczesne rozpoznawanie chorób nowotworowych u dzieci Alicja Chybicka Elsevier Urban &amp; Partner, 2013, 353 str.</li> <li>4. Neonatologia i opieka nad noworodkiem. Tom 1-2 komplet Janusz Świetliński PZWL, 2017, 1400 str.</li> <li>5. Choroby zakaźne i pasożytnicze u dzieci Zbigniew Rudkowski PZWL, 2013, 375 str.</li> <li>6. Endokrynologia i diabetologia wieku rozwojowego Anna Noczyńska MedPh..., 2013, 240 str.</li> <li>7. Michałowicz R.: Mózgowe porażenie dziecięce, PZWL, Warszawa 2001</li> </ol>

Acceptance Unit Manager or authorized person