

**SYLLABUS**  
**concerning the cycle of education 2021-2027**

(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>Faculty of Medicine, University of Rzeszow</b>
Department Name	<b>Faculty of Medicine, University of Rzeszow</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 VI, semester XII</b>
Type of course	<b>obligatory</b>
Coordinator	<b>Dr n. med. Radosław Chaber</b>
First and Last Name of the Teacher	

\* - 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
-	120	-	-	-	-	-	80	<b>8</b>

**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 in the field of pediatrics from semesters 7, 8, 9 and 10

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

### 3.1. Objectives of this course/module

C1	Mastering the theoretical basis and practical skills in the diagnosis and therapy of diseases in pediatrics, secondary symptoms.
C2	Collecting medical history, physical examination of a child.
C3	Mastering the basics of interpretation of basic and additional tests in children.

### 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 principles of nutrition for healthy and sick children, the principles of immunization and keeping the child's health balance	E.W2.
EK_02	knows and understands the causes, symptoms, principles of diagnosing and therapeutic treatment of the most common diseases of children:  a) rickets, tetany, convulsions,  b) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, arrhythmias, insufficiency  heart, hypertension, syncope,  c) acute and chronic diseases of the upper and lower respiratory tract, congenital defects of the respiratory system,  tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, edema  vasomotor,  d) anemia, haemorrhagic diathesis, bone marrow failure, neoplastic diseases of childhood,  including solid tumors typical of childhood,  e) acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic diseases, cholestasis and liver diseases and other diseases acquired and congenital abnormalities of the gastrointestinal tract,  f) urinary tract infections, congenital malformations, nephrotic syndrome, nephrolithiasis, acute and chronic renal failure, acute and chronic kidney disease, renal systemic diseases, urination disorders, vesicoureteral reflux disease,	E.W3.

	<p>g) growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty disorders and gonad functions,</p> <p>h) cerebral palsy, inflammation of the brain and meningitis, epilepsy,</p> <p>i) the most common infectious diseases of childhood,</p> <p>j) genetic syndromes,</p> <p>k) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, inflammation dermatomyositis;</p>	
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 interview with the child and his family	E.U2.
EK_05	performs physical examination of a child of all ages	E.U4.
EK_06	evaluates the condition 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	<p>can perform basic procedures and medical procedures, including: a) body temperature measurement, heart rate measurement, non-invasive arterial blood pressure measurement,</p> <p>b) monitoring of vital signs using a cardiomonitor, pulse oximetry,</p> <p>c) spirometry test, oxygen treatment, assisted and replacement ventilation,</p> <p>d) introduction of the oropharyngeal tube,</p> <p>e) intravenous, intramuscular and subcutaneous injections, peripheral vein cannulation, peripheral blood sampling</p> <p>venous blood collection, arterial blood sampling, arterial capillary blood collection,</p> <p>f) collecting swabs from the nose, throat and skin, puncture of the pleural cavity,</p> <p>g) catheterization of the bladder in men and women, probing the stomach, gastric lavage, enema,</p>	E.U29.

	h) standard resting electrocardiogram with interpretation, electrical cardioversion and defibrillation  heart's,  i) simple test strips and blood glucose measurement;	
EK_14	Assists in the following procedures and medical procedures:  a) transfusion of blood and blood products,  b) drainage of the pleural cavity,  c) puncture of the pericardial sac,  d) puncturing the peritoneal cavity,  e) lumbar puncture,  f) thin-needle biopsy,  g) epidermal tests,  h) intradermal and scarification tests and interprets their results;	E.U30.
EK_15	can plan specialist consultations	E.U32.
EK_16	recognizes the agony of the patient and determines the patient's death	E.U37.
EK_17	can manage the patient's medical records	E.U38.
EK_18	can establish and maintain a deep and respectful contact with the patient	K.01.
EK_19	he is guided by the good of the patient, placing them in the first place	K.02.
EK_20	respects medical confidentiality and patient's rights	K.03.

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

#### A. Exercises

Course contents
<p>Practical teaching in the field of child gastroenterology:</p> <p>a) medical history, physical examination, differential diagnosis</p> <p>b) interpretation of laboratory tests</p> <p>c) assessment of the patient's condition</p> <p>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations</p> <p>e) performing medical procedures and procedures</p> <p>f) undertaking preventive and curative measures in the event of a threat to life</p> <p>g) keeping medical records</p>

Practical teaching in the field of Pulmonology and Pediatric Allergy:

- a) medical history, physical examination, differential diagnosis
- b) interpretation of laboratory tests
- c) assessment of the patient's condition
- d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations
- e) performing medical procedures and procedures
- f) undertaking preventive and curative measures in the event of a threat to life
- g) keeping medical records

Practical teaching in the field of Pediatric Endocrinology and Diabetology:

- a) medical history, physical examination, differential diagnosis
- b) interpretation of laboratory tests
- c) assessment of the patient's condition
- d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations
- e) performing medical procedures and procedures
- f) undertaking preventive and curative measures in the event of a threat to life
- g) keeping medical records

Practical teaching in the field of Neonatology

- a) medical history, physical examination, differential diagnosis
- b) interpretation of laboratory tests
- c) assessment of the patient's condition
- d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations
- e) performing medical procedures and procedures
- f) undertaking preventive and curative measures in the event of a threat to life
- g) keeping medical records

Practical teaching in the field of child's cardiology:

- a) medical history, physical examination, differential diagnosis
- b) interpretation of laboratory tests
- c) assessment of the patient's condition
- d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations

<ul style="list-style-type: none"> <li>e) performing medical procedures and procedures</li> <li>f) undertaking preventive and curative measures in the event of a threat to life</li> <li>g) keeping medical records</li> </ul>
<p>Practical teaching in the field of Pediatric Nephrology:</p> <ul style="list-style-type: none"> <li>a) medical history, physical examination, differential diagnosis</li> <li>b) interpretation of laboratory tests</li> <li>c) assessment of the patient's condition</li> <li>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations</li> <li>e) performing medical procedures and procedures</li> <li>f) undertaking preventive and curative measures in the event of a threat to life</li> <li>g) keeping medical records</li> </ul>
<p>Practical teaching in the field of Oncology and Hematology:</p> <ul style="list-style-type: none"> <li>a) medical history, physical examination, differential diagnosis</li> <li>b) interpretation of laboratory tests</li> <li>c) assessment of the patient's condition</li> <li>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations</li> <li>e) performing medical procedures and procedures</li> <li>f) undertaking preventive and curative measures in the event of a threat to life</li> <li>g) keeping medical records</li> </ul>
<p>Practical teaching in the field of child's Rheumatology:</p> <ul style="list-style-type: none"> <li>a) medical history, physical examination, differential diagnosis</li> <li>b) interpretation of laboratory tests</li> <li>c) assessment of the patient's condition</li> <li>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations</li> <li>e) performing medical procedures and procedures</li> <li>f) undertaking preventive and curative measures in the event of a threat to life</li> <li>g) keeping medical records</li> </ul>

### 3.4 TEACHING METHODS

**Exercises:** working with the patient, analyzing 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 EK_02 EK_03	Exam	
EK_04 EK_05 EK_06 EK_07 EK_08 EK_09 EK_10 EK_11 EK_12 EK_13 EK_14 EK_15 EK_16 EK_17 EK_18 EK_19 EK_20	credit with the grade based on the student's observation including:  - attendance  - implementation of commissioned tasks	Exercises

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

###### **Written or oral exam.**

Evaluation criteria

5.0 - has knowledge of the education content at the level of 93% -100%

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%

###### **Exercises - practical clinical teaching**

Daily clinical assessment (evaluation of the procedure for each procedure)

Single direct observation (observation while receiving one patient)

Long-term observation (summary assessment of many skills for a long time)

Evaluation criteria

5.0 - has knowledge of the education content at the level of 93% -100%

- 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%

## 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	120
Preparation for classes	30
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	50
Participation in colloquia	<b>1</b>
Other (e-learning)	-
<b>SUM OF HOURS</b>	<b>203</b>
<b>TOTAL NUMBER OF ECTS</b>	<b>8</b>

## 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

## 6. LITERATURE

### READING:

1. Kubicka K., Kawalec W. Pediatria PZWL Warszawa, 2006
2. Dyduch A. Pediatria „SUM”, Katowice 2009
3. Obuchowicz A. red. Badania podmiotowe i przedmiotowe w pediatrii, wyd. Śląska Akademia Medyczna
4. Sońta - Jakimczyk D. [red]: Choroby krwi i układu krwiotwórczego u dzieci. Wyd. Śląska Akademia Medyczna 2006
5. Godula-Stuglik U. (red.), „Wybrane problemy neonatologii” Wydawnictwo: Śląski Uniwersytet Medyczny, Katowice 2009 (wydanie internetowe)
6. Szczapa J. (red.), Podstawy neonatologii, Wydawnictwo Lekarskie PZWL, Warszawa 2008

### Additional literature:

1. Banaszek G.: Rozwój niemowląt i jego zaburzenia a rehabilitacja metodą Vojty, alfa- medica Press ,Bielsko- Biała, 2004
2. Michałowicz R.: Mózgowe porażenie dziecięce, PZWL, Warszawa 2001



3. Hellbrugge T.: Pierwsze 365 dni życia. Fundacja na Rzecz Dzieci Niepełnosprawnych Promyk Słońca, Warszawa, 1992.
4. Binnebesel J., Pozamedyczne aspekty opieki paliatywnohospicyjnej, Fundacja Hospicyjna, Gdańsk 2010.

Acceptance Unit Manager or authorized person