Appendix number 1.5 to The Rector UR Resolution No. 12/2019

SYLLABUS

**concerning the cycle of education 2024-2030**

(date range)

* 1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

|  |  |
| --- | --- |
| Subject / Module | Pediatrics |
| Course code / module \* | Pd - E |
| Faculty of (name of the leading direction) | Medical College of Rzeszów University |
| Department Name | Medical College of Rzeszów University |
| Field of study | medical direction |
| Level of education | uniform master's studies |
| Profile | practical |
| Form of study | stationary / extramural |
| Year and semester | year V, semester X |
| Type of course | obligatory |
| Coordinator | Dr n. med. Radosław Chaber |
| First and Last Name of the Teacher | **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** |

\* - 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

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| 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**

* 1. Objectives of this course/module

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| --- | --- |
| 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)

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| --- | --- | --- |
| 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)**

1. **Lectures**

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| **Course contents** |
| 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**

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| Course contents |
| Hyperthyroidism and hypothyroidism |
| Hormonal causes of shortage of growth |
| Menstrual disorders |
| Hyperactivity and hypoparathyroidism |
| Disorders of calcium-phosphate economy. Winces. |
| Cushiunga 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**

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| **Course contents** |
| 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

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| 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.  Written and oral test | Lecture + Exercises  Exercises, Seminars |
| 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 | Practical pass | Exercises |

4.2 Conditions for completing the course (evaluation criteria)

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| **Exercises, seminars:**  1. full participation and activity in the exercises  2. written partial credits  Range of ratings: 2.0 - 5.0  **Lectures**:  1. test pass and open questions:  A: Questions in the field of messages to remember; B: Questions in the field of speech to understand;  C: Solving a typical written task; D: Solving an atypical writing task;  for insufficient solution of tasks only from areas A and B = score 2.0  - for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0  - for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0  - for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0  Final exam in the subject of pediatrics: test of choice, oral exam covering theoretical and practical issues and case study.  **Knowledge assessment:**  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%  **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

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| --- | --- |
| 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 | **1** |
| Other (e-learning) | **-** |
| SUM OF HOURS | **81** |
| TOTAL NUMBER OF ECTS | **3** |

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

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| --- | --- |
| Number of hours |  |
| Rules and forms of apprenticeship |  |

1. LITERATURE

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| **READING:**   1. Pediatria tom 1-2 Wanda Kawalec, Ryszard Grenda, Helena Ziółkowska, Ewa Bernatowska, Mieczysław Chmielik, Mieczysława Czerwionka-Szaflarska  PZWL, 2013, 1329 str. 2. Pediatria do LEK i PES. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego). Anna Dobrzańska, Jozef Ryżko  Elsevier Urban & Partner, 2014, 1092 str. |
| Additional literature:   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 & Partner, 2013, 798 str. 2. Badanie kliniczne w pediatrii - atlas i podręcznik tom 1-2 komplet Basil J. Zitelli, red. wyd. pol. Anna Dobrzańska  Elsevier Urban & Partner, 2014, 1006 str. 3. Od objawu do nowotworu Wczesne rozpoznawanie chorób nowotworowych u dzieci Alicja Chybicka  Elsevier Urban & Partner, 2013, 353 str. 4. Neonatologia i opieka nad noworodkiem. Tom 1-2 komplet Janusz Świetliński  PZWL, 2017, 1400 str. 5. Choroby zakaźne i pasożytnicze u dzieci Zbigniew Rudkowski  PZWL, 2013, 375 str. 6. Endokrynologia i diabetologia wieku rozwojowego Anna Noczyńska  MedPh..., 2013, 240 str. 7. Michałowicz R.: Mózgowe porażenie dziecięce, PZWL, Warszawa 2001 |

Acceptance Unit Manager or authorized person