**DESCRIPTION OF THE COURSE OF STUDY**

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| **Discipline code** | 12.6-3LEK-C8.2-P | |
| **Name of discipline** | Polish | **Pediatria – kliniczne nauczanie praktyczne** |
| English | Pediatrics – clinical teaching and practice |

1. **LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES**

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| **1.1. Field of study** | medicine |
| **1.2. Mode of study** | full-time |
| **1.3. Level of study** | uniform Master’s study |
| **1.4. Profile of study\*** | practical |
| **1.5. Specialization\*** | lack |
| **1.6. Unit running the course of study** | Collegium Medicum |
| **1.7. Person/s preparing the course description** | dr hab. med. Mieczysław Szalecki , prof. UJK |
| **1.8. Person responsible for the course of study** | dr hab. med. Mieczysław Szalecki , prof. UJK |
| **1.9. Contact** | mszalecki@wp.pl |

1. **GENERAL CHARACTERISTICS OF THE COURSE OF STUDY**

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| **2.1. Affiliation with the module** | Non-surgical clinical sciences |
| **2.2. Language of instruction** | English |
| **2.3. Semesters in which the course of study is offered** | 11th |
| **2.4. Prerequisites\*** | Completion of all forms of Pediatrics course (5th – 10th semester) |

1. **DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

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| **3.1. Types of classes** | | Clinical internships – 120 didactic hours. |
| * 1. **Way of conducting classes** | | Internships in Clinic of Pediatrics |
| * 1. **Way of obtaining credits for classes** | | Exam  Credit with grade, final exam after passing clinical teaching and practice at the end of 6th year |
| * 1. **Didactic methods** | | Case study |
| **3.5.Bibliography** | **Required reading** | 1. Nelson Essentials of Pediatrics, 7th Edition: Karen Marcdante, MD and Robert M. Kliegman, MD. W.B. Saunders Company 2. Paediatric Physical Examination made easy by D.Gill, N O'Brien, last edition.  |  |  | | --- | --- | |  |  |  1. 5 godz. kwerenda - ClinicalKey |
| **Further Reading** | 1. Nelson Textbook of Pediatrics, Vol 1 & 2, 20th Edition, Authors: Robert M. Kliegman & Bonita M.D. Stanton & Joseph St. Geme & Nina F Schor. 2. Ilustrated Textbook of Paediatrics, Edited by T. Lissauer, G. Clayden, 2011 3. Blueprints Pediatrics, Bradley S. Marino, Katie S. Fine, 6th Edition (zamawiamy) 5szt 4. Paediatric Clinical Examination Made Easy, Denis Gill, Niall O’Brien, 5th Edition |

**4.OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES**

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| **4.1.Course objectives (for all forms of the course)**  The primary goals of the clinical course is to acquire skills of appropriate techniques of careful medical history taking and physical examination in a neonates, infants and children including morphological and physiological differences in pediatric. To provide knowledge, skills and social competence on all diseases in a neonates, infants and children, including: epidemiology, causes, clinical manifestations, diagnosis, differentiation, treatment, prevention, rehabilitation activities.  *C1*. Shaping practical skills related to the specificity as well as distinctiveness of pathophysiology and clinics of the course of diseases in children and adolescents.  C2. Mastering the theoretical foundations as well as practical skills in the diagnosis and therapy of diseases in pediatrics and secondary symptoms.  *C3*. Mastering the skills of collecting a medical history and physical examination of a child.  *C4*. Mastering the basics of interpreting additional tests in children  *C5*. Shaping attitudes:   * social relations between doctor - patient, doctor - therapeutic team * Ethical according to the principles of ethics   Compliant with legal regulations   * 1. **Detailed syllabus (for all forms of the course)**   The student chooses seminars / classes presenting various cases / clinical cases in the field of pediatrics in accordance with the applicable education standards for the medical faculty. |

* 1. **Education outcomes in the discipline**

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| **Code** | **A student, who passed the course** | **Relation to learning**  **outcomes** |
| within the scope of **ABILITIES,** , the graduate knows how to: | | |
| U01 | conduct a review of medical history of the child and its family; | E.U2. |
| U02 | conduct physical examination of the child at any age; | E.U4. |
| U03 | assess patient’s general condition, consciousness and awareness; | E.U7. |
| U04 | assess the condition of a newborn according to a the Apgar scale and its maturity as well as examine neonatal reflexes; | E.U8. |
| U05 | make relations between anthropometric measurements and blood pressure with data in growth charts; | E.U9. |
| U06 | assess the stage of puberty; | E.U10. |
| U07 | conduct checkups for children; | E.U11. |
| U08 | perform differential diagnosis of the most common diseases in adults and children; | E.U12. |
| U09 | assess and describes the somatic and mental state of patients; | E.U13. |
| U10 | recognize states of a direct threat to life | E.U14. |
| U11 | recognize when a patient is under the influence of alcohol, drugs and other addictive products; | E.U15. |
| U12 | plan diagnostic, therapeutic and preventive procedures; | E.U16. |
| U13 | conduct analysis of the potential side effects of each drug and the interaction between them; | E.U17. |
| U14 | propose individualization of existing guidelines and other therapeutic treatments in the case of non-effectiveness of or contraindications to standard therapy; | E.U18. |
| U15 | recognize signs of drug dependency and propose a treatment procedure; | E.U19. |
| U16 | qualify the patient for home treatment and hospitalization | E.U20. |
| U17 | recognize states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease; | E.U21. |
| U18 | interpret laboratory test results and identify the reasons for deviations; | E.U24. |
| U19 | apply dietary treatment with the consideration of enteral and parenteral feeding; | E.U25. |
| U20 | plan treatment in the case of exposure to infection transmitted through blood; | E.U26. |
| U21 | qualify the patient for vaccination; | E.U27. |
| U22 | collect and secure samples of material used in laboratory diagnostics; | E.U28. |
| U23 | perform basic medical procedures and treatments, including:  1) measurement of body temperature, pulse measurement, non-invasive blood pressure measurement,  2) monitoring of vital signs using a cardio-monitor or pulse oximetry,  3) spirometry, oxygen therapy, assisted and control mode ventilation  4) introduction of the oropharyngeal tube,  5) intravenous injection , intramuscular and subcutaneous injections, cannulation of peripheral veins, collection of peripheral venous blood, collection of arterial blood, collection arterialized capillary blood,  6) collecting swabs from the nose, throat and skin, puncture of pleural cavity,  7) catheterization of the urinary bladder in women and me, nasogastric intubation, gastric lavage, enema,  8) standard electrocardiogram along with its interpretation, cardioversion and defibrillation of the heart,  9) simple test strips and measuring the concentration of glucose in the blood; | E.U29. |
| U24 | assist when the following procedures and medical treatments are performed:  1) transfusions of blood and blood products,  2) drainage of the pleural cavity,  3) puncture of the pericardium,  4) puncture of the peritoneal cavity,  5) lumbar puncture,  6) needle biopsy,  7) epidermal tests,  8) intradermal and scarification tests and interpret their results; | E.U30. |
| U25 | interpret descriptions of pharmaceutical medicines and critically assess advertising materials relating to medicines; | E.U31. |
| U26 | planuje konsultacje specjalistyczne; | E.U32. |
| U27 | implement the basic therapeutic procedure in acute poisoning; | E.U33. |
| U28 | monitor the status of a patient poisoned by chemical substances or drugs; | E.U34. |
| U29 | recognize the agony of the patient and pronounce him/her dead; | E.U37. |
| U30 | keep medical records of the patient. | E.U38. |
| U31 | comply with the aseptic and antiseptic rules; | F.U3. |
| U32 | use peripheral venous catheter; | F.U5. |
| U33 | examine nipples, lymph nodes, thyroid gland and the abdominal cavity in terms of acute abdomen and perform finger test through the anus; | F.U6. |
| U34 | perform basic resuscitation with automated external defibrillator and other rescue activities and provide first aid; | F.U10. |
| U35 | explain to the people who use medical services their basic rights and the legal basis for providing medical benefits; | G.U5. |
| U3 | issue medical certificates for the needs of patients, their families and other entities; | G.U6. |
| U37 | recognize symptoms indicating the possibility of using violence against the child during his/her examination; | G.U7. |

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| **Appendix 1 Criteria for evaluation of obtained education outcomes** | | | | | |
|  |  | | | | Number of points |
| 1. | Conducts medical history | | | | 0-10 |
| 2. | Conducts physical examination | | | | 0-10 |
| 3. | Conducting the differential diagnosis of the most common diseases | | | | 0-10 |
| 4. | Interpretation of laboratory tests | | | | 0-10 |
| 5. | Assessment of patient condition | | | | 0-10 |
| 6. | Plans diagnostic, prophylactic and therapeutic proceedings as well as specialist consultations | | | | 0-10 |
| 7. | Performance of the procedures and medical treatments | | | | 0-10 |
| 8. | Taking preventive and curative measures in a life-threatening situation | | | | 0-10 |
| 9. | Keeping medical reocords | | | | 0-10 |
| 10. | Ethical and legal aspects of treatment (communication with patients, compliance with professional secrecy, cooperation with the team, a critical analysis of their own activities, identification with the professional role) | | | | 0-10 |
|  | Total | | | | 100 |
|  | satisfactory | | | | 61-68% |
|  | more than satisfactory | | | | 69-76% |
|  | good | | | | 77-84% |
|  | more than good | | | | 85-92% |
|  | very good | | | | 93-100% |
| **Appendix 2 Evaluation methods** | | | | | |
| Daily clinical assessment (evaluation proceeding for each procedure) | | A single direct observation (observation while receiving one patient) | Long-term observation (total evaluation of many aspects of competence for a long time) | Self-assessment of the student | |
|  | |  |  | X | |
| The overview of record (stimulated assessment based on the patient) | | Critical summation assessment of the task (use of biomedical knowledge in making optimal decisions) | 360-Degree Assessment (evaluation by members of the clinical team and patients) | Triple jump exercise (TripleJump  Exercise -TJE): 1. Collection of intelligence and examination of the patient 2. Description of the actions 3. Oral exam | |
| X | |  | X | X | |
| Clinical competence examination- performance of certain tasks and procedures in a patient in a clinical conditions | | Objective Structured Clinical Examination (OSCE) | Other assessment methods |  | |
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| * 1. **Methods of assessment of the intended learning outcomes** | | | | | | | | | | | | | | | | | | | | | |
| **Teaching**  **outcomes**  **(code)** | **Method of assessment (+/-)** | | | | | | | | | | | | | | | | | | | | |
| **Exam oral/written\*** | | | **Exam oral/written\*** | | | **Exam oral/written\*** | | | **Exam oral/written\*** | | | **Exam oral/written\*** | | | **Exam oral/written\*** | | | **Exam oral/written\*** | | |
| ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | |
| *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* |
| U01- U37 |  |  |  |  |  | ***+*** |  |  |  |  |  | ***+*** |  |  | ***+*** |  |  |  |  |  | ***+*** |
| K01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

***\*delete unnecessary***

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| * 1. **Criteria of assessment of the intended learning outcomes** | | |
| **Form of classes** | **Grade** | **Criterion of assessment** |
| **Practical classes** | **3** | 61-68% |
| **3,5** | 69-76% |
| **4** | 77-84% |
| **4,5** | 85-92% |
| **5** | 93-100% |

1. **BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT**

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| **Category** | **Student's workload** |
| **Full-time studies** |
| NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/ | **120** |
| Participation in lectures\* |  |
| Participation in classes, seminars, laboratories\* | **120** |
| Preparation in the exam/ final test\* |  |
| Others\* |  |
| INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/ | **80** |
| Preparation for the lecture\* |  |
| Preparation for the classes, seminars, laboratories\* | **80** |
| Preparation for the exam/test\* |  |
| Gathering materials for the project/Internet query\* |  |
| Preparation of multimedia presentation |  |
| Others (please specify e.g. e-learning)\* |  |
| TOTAL NUMBER OF HOURS | **200** |
| ECTS credits for the course of study | **8** |

***\*delete unnecessary***

***Accepted for execution (date and signatures of the teachers running the course in the given academic year)***

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