Annex to Ordinance No. 166
Rector of the Nicolaus Copernicus University of December 21, 2015

Subject description form (syllabus form) in higher education,
Doctoral, postgraduate and further training courses

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Doctoral, postgraduate and further training courses

A. General description of the subject

Field name	Comment
Subject name (in Polish and English)	**Children's diseases** **Childhood diseases**
The entity offering the subject	**Department and Clinic of Pediatrics, Allergology and Gastroenterology** **medical department** **Collegium Medicum named after Ludwik Rydygier in Bydgoszcz Nicolaus Copernicus University in Toruń**
The unit for which the item is offered	**Faculty of Medicine, Collegium Medicum , Nicolaus Copernicus University** **Medical field** **Full-time full-time master's studies**
Subject code	1655-Lek4PEDI-J
ISCED code	***0912***
Number of ECTS points	**3.8**
Method of passing	**Pass**
Language of lecture	**Polish**
Determining whether a course can be passed multiple times	**Not applicable**
The item's belonging to a group of items	**Obligatory subject**
Total workload of a student/postgraduate student/participant of further education courses	1. The workload related to classes requiring the direct participation of academic teachers is: - participation in practical seminars: 15 **hours** - participation in exercises: 6 **0 hours** - conducting the assessment: **1 hour** The workload related to classes requiring the direct participation of academic teachers is **76 hours** , which corresponds to 2.5 **ECTS points** 2. Balance of student workload: - participation in practical seminars: 15 **hours** - participation in exercises: 60 **hours** ***(5 hours - Medical Simulation Center)*** - consultations: **2 hours** - preparation for exercises (including reading the indicated literature): **20 hours** - preparation for the exam and passing the exam: **16 + 1 = 17 hours** The total student workload is **114 hours** , which corresponds to **3.8 ECTS points** 3. Workload related to scientific research: - reading selected scientific literature: **17 hours**

	- participation in exercises (taking into account the results of the latest research in the field of treatment of digestive system diseases): **12 hours** - participation in exercises (taking into account the results of tests in the field of pediatric allergology): **12 hours** - preparation for passing the exam (including scientific studies): **15 hours** The total student workload related to research is 56 hours, which corresponds to **1.86 ECTS points** 4. Time required to prepare for and participate in the assessment process: - preparation for passing: **16 + 1 = 17 hours (0.56 ECTS points)** 5. Balance of student workload of a practical nature: - participation in practical seminars: 15 **hours** - participation in classes (including practical examination): 6 **0 hours** The student's total practical workload is **75 hours** , which corresponds to **2.5 ECTS point** 6. Time required to complete mandatory internship: ***not applicable***
Educational effects – knowledge	W1: Describes the causes and symptoms of asthma, allergic rhinitis, urticaria and angioedema in children (EK W03 c) W2: Explains the principles of diagnosing asthma, allergic rhinitis, urticaria and angioedema in children (EK W03 c) W3: Outlines therapeutic procedures in asthma, allergic rhinitis, urticaria and anaphylactic edema in children (E K_W03 c) W4: Justifies the symptoms of anaphylactic shock in children (EK W03 c) W5: Analyzes the causes of anaphylactic shock in children (EK W06) W6:Plans therapeutic treatment for anaphylactic shock in children (EK W03 c) W7: Lists the causes and symptoms of acute and chronic abdominal pain, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic diseases, liver diseases and cholestasis , taking into account the patient's age (EK W03 e) W8: Analyzes the principles of diagnosis of the most common gastrointestinal diseases in children (EK W03 e) W9: Selects therapeutic procedures in acute and chronic diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic and liver diseases, taking into account the patient's age (EK W03 e) W10: List the genetic, environmental and epidemiological conditions of digestive system diseases in developmental age (EK W01) W11: Analyzes the diet of a healthy child based on the latest guidelines (EK W02) W12: Explains the principles of child nutrition in selected diseases of the digestive system (EK W02) W13:Justifies the purposefulness of elimination diets in children with food allergies (EK W02)
Educational outcomes – skills	U1:Performs a complete physical examination of a child of all ages (E K_U04).

	U2: Draws conclusions from the interview obtained from the patient and his family (E K_U02). U3: Is able to assess the general condition of a patient at any age typical for pediatrics (EK U07) U4: Plans the differential diagnosis of gastrointestinal and allergic diseases in children (EK U12) U5:Interprets the results of laboratory tests in the field of digestive system diseases in children (EK U24) U6: Identifies deviations from the norm in the presented spirometry tests (EK U29 c) U7: Draws conclusions regarding the causes of deviations found in spirometry tests (EK U29 c) U8:Interprets the results of patch tests (EK U30 g) U9: Draws therapeutic conclusions based on the results of a biopsy of the gastrointestinal mucosa taken during endoscopic examination (EK U30 f) U10: Plans necessary specialist consultations, e.g. a pediatric surgeon (EK U32) U11: Develops a nutritional treatment plan (including enteral and parenteral nutrition) EKI 25)
Educational effects – social competences	K1: Makes attempts to establish good contact with patients and his immediate family (K_K03) K2: Accepts the need to consider the patient's good as the priority of one's actions (K K04) K3: Demonstrates a respectful attitude towards patients of all ages and their caregivers (K_K05) K4: Maintains medical confidentiality (K K06) K5: Accepts the need for constant further education (K K08)
Teaching methods	**Practical seminars:** • Panel debate • didactic discussion • case analysis **Exercises:** • clinical exercises • simulation methods (case study; simulated patient)
Entrance requirements	A student starting education in the field of pediatric diseases should have a full range of knowledge and skills in the field of anatomy, physiology, pathophysiology and subjective and objective examination in relation to the subject.
Brief description of the item	The subject is aimed at learning how to recognize, diagnose and treat the most common diseases of the digestive system and allergic diseases of developmental age.

Full item description	Practical seminars are designed to acquire and consolidate knowledge of the most common diseases of the digestive system and allergic diseases, taking into account the specificity of developmental age. Topics include functional disorders of the gastrointestinal tract, differentiating the causes of acute and chronic abdominal pain, and management of diarrhea in children. The scope of the seminars also includes information on inflammatory bowel disease, malabsorption syndromes and selected liver and pancreas diseases. The allergy part discusses food and air allergies in children. Particular attention is paid to the early identification of patients requiring dietary treatment. The seminars also include presentations of the entire diagnostic and therapeutic process based on case analyses. Additionally, the seminars include issues related to life-threatening conditions in gastroenterology and allergology of developmental age: gastrointestinal bleeding and anaphylaxis. The exercises are devoted to acquiring practical skills in the field of diagnostic and therapeutic procedures in the described topics. During the tests, the student plans diagnostic tests, interprets the results and proposes therapeutic procedures. Additionally, the student presents the entire diagnostic process of the indicated patient.
Literature	**Required literature:** ● Illustrated Textbook of Paediatrics: with STUDENT CONSULT Online Access Tom Lissauer, Graham Clayden, Mosby; 4 edition (30 Sep 2011) ● Nelson Essentials of Paediatrics: Karen J. Marcdante, Robert M. Kliegman
Assessment methods and criteria	Passing the exercises - practical test (0-1 system): U1-U11, W1-2, W7-8 Final test (0 – 50 points; >60%): W1 – W13, U4, U9, U11. **≥30 PASSED** **< 30 FAILED** Prolonged observation (> 50%): K1 – K3 *The student will receive credit for the course by obtaining positive results in the practical test, final test and a positive assessment in the field of social competences.*
Professional internships as part of the subject	***Not applicable***

B) Description of the subject of the series

Field name	Comment
The didactic cycle in which the subject is implemented	**Semester VII/VIII academic year 2023/2024**
Method of completing a course in a cycle	**Pass**

Form(s) and number of hours of classes and methods of completing them	**Seminars – 15 hours:** pass **Classes – 60 hours:** pass
Name and surname of the cycle subject coordinator(s).	**Ph.D. med. Aneta Krogulska**
Name and surname of the people leading the subject groups	**prof. Aneta Krogulska** **prof. Anna Szaflarska-Popławska** **Monika Parzęcka, MD , PhD** **Renata Kuczyńska, MD, PhD** **Ewa Łoś-Rycharska , MD, PhD** **Julia Tworowska PhD** **lek. med. Joanna Ryl** **lek. med. Aleksandra Dybowska** **lek. med. Adam Główczewski** **lek. med. Alicja Salamon-Górna** **Agnieszka Kowalczyk, PhD** **lek. med. Anna Kanigowska**
Attribute (nature) of an item	**Obligatory subject**
Class groups with description and limit of places in groups	**Seminars: groups of 25-30 people** **Exercises: groups of 5-6 people**
Dates and places of classes	**Department and Clinic of Pediatrics, Allergology and Gastroenterology Class dates are provided by the Didactics Department of the Collegium Medicum**
Number of hours of classes conducted using distance learning techniques	**Not applicable**
Subject website	**Not applicable**

Learning outcomes defined for a given form of classes within the subject	**Seminars:** W1: Describes the causes and symptoms of asthma, allergic rhinitis, urticaria and angioedema in children (EK W03 c) W2: Explains the principles of diagnosing asthma, allergic rhinitis, urticaria and angioedema in children (EK W03 c) W3: Outlines therapeutic procedures in asthma, allergic rhinitis, urticaria and anaphylactic edema in children (E K_W03 c) W4: Justifies the symptoms of anaphylactic shock in children (EK W03 c) W5: Analyzes the causes of anaphylactic shock in children (EK W06) W6:Plans therapeutic treatment for anaphylactic shock in children (EK W03 c) W7: Lists the causes and symptoms of acute and chronic abdominal pain, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic diseases, liver diseases and cholestasis , taking into account the patient's age (EK W03 e) W8: Analyzes the principles of diagnosis of the most common gastrointestinal diseases in children (EK W03 e) W9: Selects therapeutic procedures in acute and chronic diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic and liver diseases, taking into account the patient's age (EK W03 e) W10: List the genetic, environmental and epidemiological conditions of digestive system diseases in developmental age (EK W01) W11: Analyzes the diet of a healthy child based on the latest guidelines (EK 02) W12: Explains the principles of child nutrition in selected diseases of the digestive system (EK W02) W13:Justifies the purposefulness of elimination diets in children with food allergies (EK W02) **Exercises:** U1:Performs a complete physical examination of a child of all ages (E K_U04). U2: Draws conclusions from the interview obtained from the patient and his family (E K_U02). U3: Is able to assess the general condition of a patient at any age typical for pediatrics (EK U07) U4: Plans the differential diagnosis of gastrointestinal and allergic diseases in children (EK U12) U5:Interprets the results of laboratory tests in the field of digestive system diseases in children (EK U24) U6: Identifies deviations from the norm in the presented spirometry tests (EK U29 c) U7: Draws conclusions regarding the causes of deviations found in spirometry tests (EK U29 c) U8:Interprets the results of patch tests (EK U30 g) U9: Draws therapeutic conclusions based on the results of a biopsy of the gastrointestinal mucosa taken during endoscopic examination (EK U30 f) U10: Plans necessary specialist consultations, e.g. a pediatric surgeon (EK U32) U11: Develops a nutritional treatment plan (including enteral and parenteral nutrition) EKI 25) K1: Makes attempts to establish good contact with patients and his immediate family (K_K03)

	K2: Demonstrates a respectful attitude towards patients of all ages and their caregivers (K_K05) K3: Accepts the need for constant education and updating of knowledge (K K08)
Methods and criteria for assessing a given form of classes within a subject	**Exercises :** Passing the exercises - practical test (0-1 system): U1-U11, W1-2, W7-8 **Seminars:** Final test (0 – 50 points; >60%): W1 – W13, U4, U9, U11. **≥30 Passed** **< 30 Failed** Prolonged observation (> 50%): K1 – K3
Scope of topics (separately for specific forms of classes)	**Seminar topics:** 1. Food alergy, 2. Atopic dermatitis. Hives. 3. Asthma, allergic rhinitis 4. Anaphylaxis – diagnosis and treatment 5. Stomach pain. Chronic diarrhea. 6. Functional disorders of the digestive tract 7. Inflammatory bowel disease 8. Celiac disease. Food intolerances 9. The most common diseases of the upper digestive tract 10. Liver and pancreas diseases 11.Emergency conditions in pediatric gastroenterology 12.Nutrition for children with specific diseases/ pass test

	Exercise topics: 1. Food allergy - work at the patient's bedside (interview and physical examination). Assessment of skin lesions in the course of allergic diseases (atopic dermatitis, urticaria). Presentation of elimination diets in infants and older children. 2. Food allergy - presentation of epidermal and prick tests - discussion of their results. Discussion and interpretation of other laboratory tests used in allergology on the example of selected patients. Food challenge tests. 3. Asthma – case presentation. Classes in the Spirometry Laboratory - discussion of the correct test result. Functional tests. Presentation of inhalation treatment. Qualification for immunotherapy. 4. Abdominal pain – differential diagnosis. Interpretation of laboratory test results. Imaging tests useful in diagnosing pathologies of abdominal organs. Constipation - diagnosis criteria, discussion of causes, additional tests (anorectal manometry), treatment methods. 5. Endoscopic examinations of the gastrointestinal tract - observation of the tests carried out. Discussion of the rules of qualification for endoscopic examinations. Foreign body in the gastrointestinal tract – rules of procedure. 6. Celiac disease, lactose intolerance. Presentation of the principles of a gluten-free diet. Problems in following elimination diets on a daily basis. Breathing tests. 7. Inflammatory bowel disease – possible therapeutic procedures. Discussion and presentation of TPN (total parenteral nutrition). Industrial diet. 8. Emergency conditions in gastroenterology and pediatric allergology - classes at the Medical Simulation Center according to developed scenarios. 9. The most common diseases of the upper digestive tract. GERD, peptic ulcer disease - interpretation of test results. Congenital defects of the digestive tract. Principles of intragastric and enteral nutrition. PEG/PEJ overview and presentation 10. Student's discussion of the selected patient - assessment
Teaching methods	**Practical seminars:** • Panel debate • didactic discussion • case analysis **Exercises:** • clinical exercises • simulation methods (case study; simulated patient)
Literature	Identical to part A.

Annex to Ordinance No. 166

Rector of the Nicolaus Copernicus University
of December 21, 2015

Subject description form (syllabus form) for higher education, PhD, postgraduate and further education courses

A. General description of the item

Field name	Comment
name of the item	**Preparation for LEK - pediatrics** **Preparation for LEK - Paediatrics**
The entity offering the item	**Faculty of Medicine, Collegium Medicum UMK** **Department of Pediatrics, Allergology and Gastroenterology** **Department of Pediatrics, Hematology and Oncology**
The unit for which the item is offered	**Faculty of Medicine, Collegium Medicum , Nicolaus Copernicus University** **Medical field** **Full- time full-time master's studies**
Item code	**1600-Lek5LEKPED-J**
ISCED code	**0912**
Number of ECTS points	**0.3**
Method of passing	pass
Language of lecture	Polish
Determining whether a course can be passed multiple times	NO
The item's belonging to a group of items	Obligatory subject
Total workload of a student/postgraduate student/participant of further education courses	1. The workload related to classes requiring the direct participation of academic teachers is: - participation in seminars : 6 **hours** - consultations: 1 **hour**

	The workload related to classes requiring the direct participation of academic teachers is 7 **hours** , which corresponds to **0.23 ECTS points .** 2. Balance of student workload: - participation in seminars : 6 **hours** - preparation for classes (review of tests, review of material from a given scope of classes): 2 **hours** - consultations: 1 **hour** The total student workload is 9 **hours** , which corresponds to **0.3 ECTS points** 3. Workload related to scientific research: - reading selected scientific literature: 2 **hours** - consultations including scientific studies in the field of pediatrics): **0.5 hour** The total student workload related to research is **2.5 hours** , which corresponds to **0.09 ECTS points** 4. Time required to prepare for and participate in the assessment process: **not applicable** 5. Balance of student workload of a practical nature: **not applicable** 6. Time required to complete mandatory internship: **not applicable**
Educational effects – knowledge	W1: knows the consequences of improper nutrition, including long-term starvation, eating too large meals and using an unbalanced diet (B K_W19) W2: knows the consequences of vitamin or mineral deficiency and their excess in the body (B K_W20) W3: knows the basic quantitative parameters describing the performance of individual systems and organs, including: the normal range and demographic factors influencing the value of these parameters (B K_W29) W4: describes aberrations of autosomes and heterosomes that cause diseases, including oncogenic cancers (C K_W07) W5: knows the epidemiology of infections with viruses, bacteria, fungi and parasites, taking into account the geographical range of their occurrence (C K_W13) W6: knows the basics of development and mechanisms of operation of the immune system, including specific and non-specific mechanisms of humoral and cellular immunity (C K_W20)

	W7: lists the clinical forms of the most common diseases of individual systems and organs, metabolic diseases and water-electrolyte and acid-base disorders (C K_W33) W8: knows the genetic, environmental and epidemiological conditions of the most common diseases (E K_W01) W9: knows the principles of feeding healthy and sick children, including natural feeding, vaccinations and keeping a child's health assessment (E K_W02) W10: knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedures of the most common children's diseases: a) rickets, tetany, convulsions, b) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy , cardiac arrhythmias, heart failure, hypertension , fainting, 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, angioedema, d) anemia, bleeding disorders, bone marrow failure, diseases childhood cancers, 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, other acquired diseases and congenital defects of the gastrointestinal tract, f) urinary tract infections, congenital defects of the urinary tract, nephrotic syndrome, nephrolithiasis, acute and chronic renal failure, acute and chronic nephritis, systemic kidney diseases, urination disorders, vesicoureteral reflux disease , g) growth disorders, thyroid and parathyroid diseases, adrenal gland diseases, diabetes, obesity, disorders of puberty and gonadal function, h) cerebral palsy, encephalitis and meningitis, epilepsy, i) the most common infectious diseases of childhood, j) genetic syndromes, k) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis (E K_W03) W11: knows the issues of: abused children and sexual abuse, mental retardation, behavioral disorders: psychoses, addictions, eating and excretion disorders in children (E K_W04) W12: knows the most common life-threatening conditions in children and the rules of conduct in these conditions (E K_W06) W13: knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedures in the most common hereditary diseases (E K_W35)
Educational outcomes – skills	U 1 : can interpret the results of laboratory tests in all the most common children's diseases (E K_U24)

	U 2 : can propose appropriate diagnostic, therapeutic and preventive procedures (E K_U16)
Educational effects – social competences	Not applicable
Teaching methods:	● problem lecture ● conversational lecture ● didactic discussion
Entrance requirements	A student joining the classes should have knowledge of basic (preclinical) sciences (in particular: anatomy, physiology and pathophysiology, genetics, pharmacology, laboratory diagnostics, immunology, pathomorphology, microbiology), knowledge and skills in the field of basic pediatrics: development of a healthy child, child physiology , child nutrition, medical care for healthy children (health checkups, vaccinations) and information on the most common diseases in children along with the basics of their diagnosis, differentiation and treatment.
Brief description of the item	The aim of the classes is to review all issues in the field of pediatric propaedeutics and children's diseases in terms of correct solving the tasks of the Final Medical Examination.
Full item description	The aim of the classes is to review all issues in the field of pediatric propaedeutics and children's diseases in terms of correct solving the tasks of the Final Medical Examination. During thematically divided seminars, test questions that appeared in previous LEK exams and related to the relevant section of pediatrics are discussed. At the same time, information from this section is discussed along with the most important or problematic issues appearing in the tests.
Literature	● K. Kubicka, W. Kawalec, (ed.): Pediatrics, volume 1-2, Warsaw 2006, 3rd edition (reprint 2010), Wydawnictwo Lekarskie PZWL ● Pediatrics - Manual for the State Medical Examination and specialization examination, Ed. A. Dobrzańska and J. Ryżko , Urban i Partner 2005 ● JJ Pietrzyk, H. Szajewska, J. Mrukowicz (ed.): ABC of procedures in pediatrics, Medycyna Practical 2010 ● Obuchowicz (ed) - Subjective and objective examination in pediatrics, PZWL 2010.
Assessment methods and criteria	The item is not subject to assessment
Professional internships as part of the subject	Not applicable

B. Description of the subject of the cycle

Field name	Comment
The didactic cycle in which the subject is implemented	Academic year 20 25 /20 26
Method of completing a course in a cycle	Pass
Form(s) and number of hours of classes and methods of completing them	Seminars - 6 hours: passing
Name and surname of the cycle subject coordinator(s).	Prof. Aneta Krogulska
Name and surname of the people leading the subject groups	Academic teachers employed in the Department of Pediatrics, Hematology and Oncology and in the Department of Pediatrics, Allergology and Gastroenterology
Attribute (nature) of an item	Obligatory subject
Class groups with description and limit of places in groups	Seminars - groups of 20-24 people
Dates and places of classes	Classes are held in the following locations: ● Department of Pediatrics, Hematology and Oncology ● Department of Pediatrics, Allergology and Gastroenterology Details regarding the dates and place of classes are provided by the Didactics Department of the Collegium Medicum and the Department of Pediatrics, Hematology and Oncology and the Clinic of Pediatrics, Allergology and Gastroenterology (class schedule on the Department's website and also on the notice board).
Number of hours of classes conducted using distance learning methods and techniques	not applicable
Subject website	not applicable
Learning outcomes defined for a given form of classes within the subject	Identical to part A
Methods and criteria for assessing a given form of classes within a subject	The item is not subject to assessment
Range of topics	● Neonatology. ● Infectious diseases of children. Vaccinations. ● Allergic diseases. Asthma.

	● Digestive system diseases. Children's nutrition. Water-electrolyte and acid-base management. ● Genetics. Metabolic diseases. Immunology. Rheumatology. ● Growth and eating disorders. Puberty. Endocrinology. Thyroid diseases. Diabetes. ● Cardiovascular disease. Intensive care. ● Oncology. Hematology. ● Pulmonology. Upper respiratory tract diseases. Antibiotic therapy. ● Semiotics. Child development assessment. Neurological disorders.
Teaching methods	Identical to part A
Literature	Identical to part A