

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

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**A. General description of the subject**

<b>Field name</b>	<b>Comment</b>
<b>Subject name (in Polish and English)</b>	<b>Children's diseases Childhood diseases</b>
<b>The entity offering the subject</b>	<b>Department and Clinic of Pediatrics, Allergology and Gastroenterology medical department Collegium Medicum named after Ludwik Rydygier in Bydgoszcz Nicolaus Copernicus University in Toruń</b>
<b>The unit for which the item is offered</b>	<b>Faculty of Medicine, Collegium Medicum , Nicolaus Copernicus University Medical field Full-time full-time master's studies</b>
<b>Subject code</b>	1655-Lek4PEDI-J
<b>ISCED code</b>	<i>0912</i>
<b>Number of ECTS points</b>	<b>3.8</b>
<b>Method of passing</b>	<b>Pass</b>
<b>Language of lecture</b>	<b>Polish</b>
<b>Determining whether a course can be passed multiple times</b>	<b>Not applicable</b>
<b>The item's belonging to a group of items</b>	<b>Obligatory subject</b>
<b>Total workload of a student/postgraduate student/participant of further education courses</b>	<p>1. The workload related to classes requiring the direct participation of academic teachers is:</p> <ul style="list-style-type: none"> <li>- participation in practical seminars: <b>15 hours</b></li> <li>- participation in exercises: <b>6 0 hours</b></li> <li>- conducting the assessment: <b>1 hour</b></li> </ul> <p>The workload related to classes requiring the direct participation of academic teachers is <b>76 hours</b> , which corresponds to <b>2.5 ECTS points</b></p> <p>2. Balance of student workload:</p> <ul style="list-style-type: none"> <li>- participation in practical seminars: <b>15 hours</b></li> <li>- participation in exercises: <b>60 hours (5 hours - Medical Simulation Center)</b></li> <li>- consultations: <b>2 hours</b></li> <li>- preparation for exercises (including reading the indicated literature): <b>20 hours</b></li> <li>- preparation for the exam and passing the exam: <b>16 + 1 = 17 hours</b></li> </ul> <p>The total student workload is <b>114 hours</b> , which corresponds to <b>3.8 ECTS points</b></p> <p>3. Workload related to scientific research:</p> <ul style="list-style-type: none"> <li>- reading selected scientific literature: <b>17 hours</b></li> </ul>

	<ul style="list-style-type: none"> <li>- participation in exercises (taking into account the results of the latest research in the field of treatment of digestive system diseases): <b>12 hours</b></li> <li>- participation in exercises (taking into account the results of tests in the field of pediatric allergology): <b>12 hours</b></li> <li>- preparation for passing the exam (including scientific studies): <b>15 hours</b></li> </ul> <p>The total student workload related to research is 56 hours, which corresponds to <b>1.86 ECTS points</b></p> <p>4. Time required to prepare for and participate in the assessment process:</p> <ul style="list-style-type: none"> <li>- preparation for passing: <b>16 + 1 = 17 hours (0.56 ECTS points)</b></li> </ul> <p>5. Balance of student workload of a practical nature:</p> <ul style="list-style-type: none"> <li>- participation in practical seminars: <b>15 hours</b></li> <li>- participation in classes (including practical examination): <b>6 0 hours</b></li> </ul> <p>The student's total practical workload is <b>75 hours</b> , which corresponds to <b>2.5 ECTS point</b></p> <p>6. Time required to complete mandatory internship: <i>not applicable</i></p>
<b>Educational effects – knowledge</b>	<p>W1: Describes the causes and symptoms of asthma, allergic rhinitis, urticaria and angioedema in children (EK W03 c)</p> <p>W2: Explains the principles of diagnosing asthma, allergic rhinitis, urticaria and angioedema in children (EK W03 c)</p> <p>W3: Outlines therapeutic procedures in asthma, allergic rhinitis, urticaria and anaphylactic edema in children (E K_W03 c)</p> <p>W4: Justifies the symptoms of anaphylactic shock in children (EK W03 c)</p> <p>W5: Analyzes the causes of anaphylactic shock in children (EK W06)</p> <p>W6: Plans therapeutic treatment for anaphylactic shock in children (EK W03 c)</p> <p>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)</p> <p>W8: Analyzes the principles of diagnosis of the most common gastrointestinal diseases in children (EK W03 e)</p> <p>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)</p> <p>W10: List the genetic, environmental and epidemiological conditions of digestive system diseases in developmental age (EK W01)</p> <p>W11: Analyzes the diet of a healthy child based on the latest guidelines (EK W02)</p> <p>W12: Explains the principles of child nutrition in selected diseases of the digestive system (EK W02)</p> <p>W13: Justifies the purposefulness of elimination diets in children with food allergies (EK W02)</p>
<b>Educational outcomes – skills</b>	<p>U1: Performs a complete physical examination of a child of all ages (E K_U04).</p>

	<p>U2: Draws conclusions from the interview obtained from the patient and his family (E K_U02).</p> <p>U3: Is able to assess the general condition of a patient at any age typical for pediatrics (EK U07)</p> <p>U4: Plans the differential diagnosis of gastrointestinal and allergic diseases in children (EK U12)</p> <p>U5: Interprets the results of laboratory tests in the field of digestive system diseases in children (EK U24)</p> <p>U6: Identifies deviations from the norm in the presented spirometry tests (EK U29 c)</p> <p>U7: Draws conclusions regarding the causes of deviations found in spirometry tests (EK U29 c)</p> <p>U8: Interprets the results of patch tests (EK U30 g)</p> <p>U9: Draws therapeutic conclusions based on the results of a biopsy of the gastrointestinal mucosa taken during endoscopic examination (EK U30 f)</p> <p>U10: Plans necessary specialist consultations, e.g. a pediatric surgeon (EK U32)</p> <p>U11: Develops a nutritional treatment plan (including enteral and parenteral nutrition) (EKI 25)</p>
<b>Educational effects – social competences</b>	<p>K1: Makes attempts to establish good contact with patients and his immediate family (K_K03)</p> <p>K2: Accepts the need to consider the patient's good as the priority of one's actions (K K04)</p> <p>K3: Demonstrates a respectful attitude towards patients of all ages and their caregivers ( K_K05)</p> <p>K4: Maintains medical confidentiality (K K06)</p> <p>K5: Accepts the need for constant further education (K K08)</p>
<b>Teaching methods</b>	<p><b>Practical seminars:</b></p> <ul style="list-style-type: none"> <li>• Panel debate</li> <li>• didactic discussion</li> <li>• case analysis</li> </ul> <p><b>Exercises:</b></p> <ul style="list-style-type: none"> <li>• clinical exercises</li> <li>• simulation methods (case study; simulated patient)</li> </ul>
<b>Entrance requirements</b>	<p>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.</p>
<b>Brief description of the item</b>	<p>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.</p>

<p><b>Full item description</b></p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<p><b>Literature</b></p>	<p><b>Required literature:</b></p> <p>Krystyna Kubicka, Wanda Kawalec, (ed.): Pediatrics, volume 1-2, Warsaw 2006, 3rd edition (reprint 2010), Wydawnictwo Lekarskie PZWL</p> <p>Pediatrics – Manual for the State Medical Examination and specialization examination, Ed. Anna Dobrzańska and Józef Ryzko , Urban i Partner 2005</p> <p><b>Additional literature:</b></p> <p>JJ Pietrzyk, H. Szajewska, J. Mrukowicz (ed.): ABC of procedures in pediatrics, Medycyna Practical 2010</p> <p>Anna Obuchowicz (ed.) - Subjective and objective examination in pediatrics, PZWL 2010.</p> <p>LepoLek , or how to pass the Medical Final Exam, edited by Damian Wseółowski , Warsaw , 2016</p>
<p><b>Assessment methods and criteria</b></p>	<p>Passing the exercises - practical test (0-1 system): U1-U11, W1-2, W7-8</p> <p>Final test (0 – 50 points; &gt;60%): W1 – W13, U4, U9, U11.</p> <p style="text-align: center;"><b>≥30 PASSED</b> <b>&lt; 30 FAILED</b></p> <p>Prolonged observation (&gt; 50%): K1 – K3</p> <p><i>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.</i></p>
<p><b>Professional internships as part of the subject</b></p>	<p style="text-align: center;"><i>Not applicable</i></p>

**B) Description of the subject of the series**

<b>Field name</b>	<b>Comment</b>
<b>The didactic cycle in which the subject is implemented</b>	<b>Semester VII/VIII academic year 2023/2024</b>
<b>Method of completing a course in a cycle</b>	<b>Pass</b>
<b>Form(s) and number of hours of classes and methods of completing them</b>	<b>Seminars – 15 hours: pass Classes – 60 hours: pass</b>
<b>Name and surname of the cycle subject coordinator(s).</b>	<b>Ph.D. med. Aneta Krogulska</b>
<b>Name and surname of the people leading the subject groups</b>	<b>prof. Aneta Krogulska prof. Anna Szaflarska-Poplawska Julia Tworowska PhD Agnieszka Kowalczyk, PhD lek. med. Adam Głowczewski lek. med. Justyna Stampor-Bednarska lek. med. Aleksandra Kwiatkowska</b>
<b>Attribute (nature) of an item</b>	<b>Obligatory subject</b>
<b>Class groups with description and limit of places in groups</b>	<b>Seminars: groups of 25-30 people Exercises: groups of 5-6 people</b>
<b>Dates and places of classes</b>	<b>Department and Clinic of Pediatrics, Allergology and Gastroenterology Class dates are provided by the Didactics Department of the Collegium Medicum</b>
<b>Number of hours of classes conducted using distance learning techniques</b>	<b>Not applicable</b>
<b>Subject website</b>	<b>Not applicable</b>

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

	<p>K2: Demonstrates a respectful attitude towards patients of all ages and their caregivers ( K_K05)</p> <p>K3: Accepts the need for constant education and updating of knowledge (K K08)</p>
<p><b>Methods and criteria for assessing a given form of classes within a subject</b></p>	<p><b>Exercises :</b>  Passing the exercises - practical test (0-1 system): U1-U11, W1-2, W7-8</p> <p><b>Seminars:</b>  Final test (0 – 50 points; &gt;60%): W1 – W13, U4, U9, U11.</p> <p><b>≥30 Passed</b>  <b>&lt; 30 Failed</b></p> <p>Prolonged observation (&gt; 50%): K1 – K3</p>
<p><b>Scope of topics (separately for specific forms of classes)</b></p>	<p><b>Seminar topics:</b></p> <ol style="list-style-type: none"> <li>1. Food allergy,</li> <li>2. Atopic dermatitis. Hives.</li> <li>3. Asthma, allergic rhinitis</li> <li>4. Anaphylaxis – diagnosis and treatment</li> <li>5. Stomach pain. Chronic diarrhea.</li> <li>6. Functional disorders of the digestive tract</li> <li>7. Inflammatory bowel disease</li> <li>8. Celiac disease. Food intolerances</li> <li>9. The most common diseases of the upper digestive tract</li> <li>10. Liver and pancreas diseases</li> <li>11. Emergency conditions in pediatric gastroenterology</li> <li>12. Nutrition for children with specific diseases/ pass test</li> </ol>

	<p><b>Exercise topics:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. Asthma – case presentation. Classes in the Spirometry Laboratory - discussion of the correct test result. Functional tests. Presentation of inhalation treatment. Qualification for immunotherapy.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>7. Inflammatory bowel disease – possible therapeutic procedures. Discussion and presentation of TPN (total parenteral nutrition). Industrial diet.</li> <li>8. Emergency conditions in gastroenterology and pediatric allergology - classes at the Medical Simulation Center according to developed scenarios.</li> <li>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</li> <li>10. Student's discussion of the selected patient - assessment</li> </ol>
<p><b>Teaching methods</b></p>	<p><b>Practical seminars:</b></p> <ul style="list-style-type: none"> <li>• Panel debate</li> <li>• didactic discussion</li> <li>• case analysis</li> </ul> <p><b>Exercises:</b></p> <ul style="list-style-type: none"> <li>• clinical exercises</li> <li>• simulation methods (case study; simulated patient)</li> </ul>
<p><b>Literature</b></p>	<p>Identical to part A.</p>