

**Course description (syllabus) form for higher education, doctoral,
postgraduate and skills development programmes**

A. General course description

Field name	Comments
Course title	Childhood diseases
Unit organising the course	Faculty of Medicine of the Collegium Medicum UMK Department of Paediatrics, Haematology and Oncology
Unit for which the course is organised	Faculty of Medicine of the Collegium Medicum UMK uniform master degree studies
Course ID	1655-Lek6CHDZW-J
ISCED code	0912
ECTS credit allocation	8
Form of course completion assessment	graded credit
Language of instruction	English
Indication whether attempts at obtaining course credit can be repeated	No
Affiliation of the course to a course group	University-wide courses, compulsory
Total student workload	<p>1. Study hours involving teacher participation:</p> <ul style="list-style-type: none"> - tutorials: 120 hours - consults: 20 hours - credit: 2 hours <p>Total workload involving teacher participation is 142 hours (5,41 ECTS points).</p> <p>2. Study hours involving individual student work:</p> <ul style="list-style-type: none"> - tutorials: 120 hours (incl. 6 hrs in the Centre for Medical Simulations and 12 hours in neonatology department) - preparation for tutorials (incl. case reports and presentations): 60 hours - consults: 20 hours - preparation for the credit and the credit: $8 + 2 = 10$ hours <p>Total workload involving individual student participation is 210 hours (8 ECTS points).</p>
Learning outcomes – knowledge	<p>Student:</p> <p>W1: has advanced knowledge of genetic background of common diseases of childhood (E K_W01)</p> <p>W2: is familiar with modern diagnostics (E K_W03)</p> <p>W3: knows current treatment standards referring to most common paediatric diseases (E K_W03)</p> <p>W4: knows current vaccination schedule (E K_W02)</p> <p>W5: knows the rules of conduct in case of violence against a child (D K_U09)</p> <p>W6: enumerates the most common life-threatening conditions and is acquainted with appropriate medical procedures (E K_W06)</p>
Learning outcomes – skills	Student:

	<p>U1: is able to collect medical history of a child with communication problems and with upset or stressed parents (E K_U02)</p> <p>U2: is able to provide differential diagnosis of admitted children with unclear diagnosis (E K_U12)</p> <p>U3: can recognize symptoms of alcohol consumption or taking psychoactive agents or drugs (K_U15)</p> <p>U4: can interpret the results of laboratory tests in the most common diseases of children (E K_U24)</p> <p>U5: can assess the results of the coagulation tests in patients with haemophilia and other coagulation disorders (E K_U24)</p> <p>U6: can describe the somatic and mental state of a severely ill patient (E K_U13)</p> <p>U7: is able to properly assess the patient's condition and recognize of immediate life-threatening condition (E K_U14)</p> <p>U8: can recognize the symptoms of violence against a child (G K_U05)</p> <p>U9: can propose appropriate diagnostic, therapeutic and prophylactic procedures (E K_U16)</p> <p>U10: can qualify the patient for admission to the hospital (E K_U20)</p> <p>U11: is able to carry out the qualification test for vaccinations and justify disqualification from vaccinations (K_U27)</p> <p>U12: can apply nutritional treatment (including enteral and parenteral nutrition), especially in patients with colon diseases, absorption disorders and gastrointestinal mucositis (E K_U25)</p> <p>U13: can collect material for laboratory tests from a paediatric patient (E K_U28)</p> <p>U14: can perform following procedures: monitoring vital signs using a cardiomonitor, pulse oximetry, collecting nasal, throat and skin swabs, strips tests and blood glucose measurement (E K_U29)</p> <p>U15: can describe following medical procedures: transfusion of blood and blood products, skin allergic tests, scarification tests (E K_U30)</p> <p>U16: can properly plan consultations for paediatric patients (E K_U32)</p> <p>U17: can document the patient's condition and treatment (E K_U38)</p>
Learning outcomes - social competence	<p>Student:</p> <p>K1: respects medical confidentiality when working with medical documentation or contacting with patient's relatives (K_K06)</p> <p>K2: can communicate rationally and respectfully with consulting specialists (K_K07)</p> <p>K3: has a habit to search for information about the patient being conducted (K_K08)</p>
Teaching methods	<ul style="list-style-type: none"> - clinical practice - case study - clinical discussion & consults - simulation techniques
Prerequisites	<p>The student 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 basics of paediatrics: development of a healthy child, physical examination of a healthy child, child feeding, medical care for healthy children) and information on the most common diseases in children, including signs and symptoms, differentiation and treatment.</p>

	The student should be able to communicate with the paediatric patient and its parents without supervision, collect a medical history and examine the patient in a manner appropriate to the patient's age.
Brief course description	The aim of the subject is to practise and improve professional skills using the knowledge gained during lectures, seminars and tutorials at earlier stages of education.
Full course description	The aim of the subject is: familiarising students with the work of the department and out-patient clinics, practising the assessment of the child's state and psychophysical development, getting acquainted with the care of the infant, learning the principles of nutrition of healthy and ill child, improving the skills of examination of the child, deepening the skills of appropriate diagnosing and differentiation of common conditions with particular emphasis on emergencies, learning to interpret the laboratory, radiological and pathological results, participation in consults, getting familiar with medical records, learning the sanitary and epidemiological regulations in the paediatric ward and methods for the prevention of nosocomial infections.
Literature	<ul style="list-style-type: none"> • 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. Marcante, Robert M. Kliegman
Assessment methods and criteria	<ul style="list-style-type: none"> • Practical test in clinical conditions (scoring system 0-1, recognition of the performed procedure in the case of proper implementation of the actions taken): U1-U7, U9-U17 • Practical test in simulation conditions (scoring system 0-1, recognition of the performed procedure in the case of proper implementation of the actions taken): U13, U14 • Extended observation (> 50%): K1-K3 • Test exam on the discussed practical skills (> 60%): U1-U17
Work placement	not applicable

B. Description of the course within the period of instruction

Field name	Comments
Period of instruction	Academic year 2024/2025
Form of assessment of course completion in the period of instruction	The same as in part A
Form(s) of classes, number of hours and completion assessment methods	Tutorials – 120 hours; graded credit
Name of course coordinator in the period of instruction	prof. dr hab. n. med. Jan Styczyński

Names of persons managing student groups for the course	a) Academic teachers and doctoral students from the Department of Paediatrics, Haematology and Oncology b) Academic teachers and doctoral students from the Neonatology Department c) specialists and physicians on contract
Course attributes	University-wide courses, compulsory
Course groups including description and limit to the number of students within the groups	Groups up to 6 students
Time and place of classes	<p>Classes are held in the following locations:</p> <ul style="list-style-type: none"> • Department of Paediatrics, Haematology and Oncology (Antoni Jurasz University Hospital No. 1 in Bydgoszcz) <ul style="list-style-type: none"> ◦ wards of the department ◦ out-patient clinics for oncology and haematology, immunology, phacomatoses, pulmonology • Neonatology Department (University Hospital No. 2 in Bydgoszcz) • Paediatric Emergency Unit • Centre for Medical Simulations <p>Detailed schedule is announced on the Department's own website and on the information board in the Department.</p>
Number of study hours involving distance learning methods	not applicable
Course website	not applicable
Learning outcomes defined for a given form of classes within the course	The same as in part A
Assessment methods and criteria for a given form of classes within the course	The same as in part A
Course content	<ul style="list-style-type: none"> • Participation in medical consultations • Participation in the process of receiving a patient to a hospital ward, setting up medical records • Participation in the work of the paediatric admission room • Conversation with the patient and parents about treatment, obtaining informed consent for treatment • Patients with respiratory diseases - history, physical examination, diagnostics, differential diagnosis, interpretation of laboratory and imaging results, treatment, observation, keeping medical records • Participating in the work of the pulmonology outpatient clinic for children • Patients with primary and secondary immunodeficiency disorders - history, physical examination, diagnostics, differential diagnosis, interpretation of laboratory tests results, treatment, care principles, observation, keeping medical records • Participating in the work of the immunology outpatient clinic for children • Patients with fever with unknown cause and sepsis - assessment, examination, interpretation of microbiological tests and planning anti-infective treatment

	<ul style="list-style-type: none"> • Cancer patients - medical history, physical examination, diagnostics, differential diagnosis, interpretation of laboratory and imaging results, treatment, supportive therapy, nutrition, observation, keeping medical records • Participation in the oncology outpatient clinic for children • Participation in the outpatient clinic for children with phakomatoses • Participation in diagnostic bone marrow biopsies and lumbar punctures in children • Patients for oncological diagnostics (enlargement of lymph nodes, headaches and dizziness, haematological disorders) - history, physical examination, diagnostics, differential diagnosis, interpretation of laboratory and imaging results, procedure, observation, keeping medical records • Patients with haematopoietic system diseases - medical history, physical examination, diagnostics, differential diagnosis, interpretation of laboratory and imaging results, treatment, nutrition, observation, keeping medical records • The use of blood components in practice, blood and components transfusion, keeping records • Participation in the work of the haematology outpatient clinic for children • Patients referred to and after hematopoietic stem cell transplantation - history, physical examination, diagnostics, differential diagnosis, interpretation of laboratory tests, treatment of specific complications, care, nutrition, observation, keeping medical records • Principles of immunosuppressive therapy • Care of paediatric patients undergoing immunosuppression • Participation in the work of the bone marrow transplant clinic for children • Care and nutrition of healthy and sick newborns • Assessment of the newborn's maturity and health status, testing of newborn reflexes • Newborn screening tests and vaccinations • The most common life-threatening conditions in newborns • Infections in newborns
Teaching methods	The same as in part A
Literature	The same as in part A