SYLLABUS

Course syllabus for the 2022/2023 academic year

Name of course / module	PEDIATRICS		
Names of departments where course are held	Department of Pediatrics and Nephrology, Department of Pediatrics, Endocrinology, Diabetology with Cardiology Unit, Department of Pediatrics, Gastroenterology, Hepatology, Nutrition, Allergology and Pulmonology, Department of Pediatrics, Rheumatology, Immunology and Metabolic Bone Diseases, Department of Pediatric Oncology and Hematology, Department of Pediatric Infectious Diseases, Department of Medical Simulations, Department of Neonatology and Newborn Intensive Care.		
E-mail of department	Department of Pediatrics and Nephrology: iklinped@umb.edu.pl , Department of Pediatrics, Endocrinology, Diabetology with Cardiology Unit: 2klchdz@umb.edu.pl , Department of Pediatrics, Gastroenterology, Hepatology, Nutrition, Allergology and Pulmonology: pegaz@umb.edu.pl , Department of Pediatrics, Rheumatology, Immunology and Metabolic Bone Diseases: pegaz@umb.edu.pl , Department of Pediatric Oncology and Hematology: onkdziec@umb.edu.pl , Department of Medical Simulations: symulacje@umb.edu.pl , Department of Neonatology and Newborn Intensive Care: neonatologia@umb.edu.pl ,		
Faculty of		d Division of Medical Education in English	
Name of field of study	medical		
Level of education	First degree studies, Uniform master's		
Form of study	full time	part time	
Language of instruction	Polish 🗆	English	
Type of course	obligatory	facultative \square	
Year of study / Semester		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Introductory courses with	Implementation of learning outcomes is	n terms of knowledge, skill sets and competencies of the	
preliminary requirements	previous years of study in the field of po	ediatrics	
Number of didactic hours with specification of forms of conducting classes	YEAR OF STUDY III: 85 h (including on-line): 28h – lectures, 20h – seminars, 37h - classes YEAR OF STUDY IV: 140 h (including on-line): 46h – lectures, 19h – seminars, 75h - classes YEAR OF STUDY V: 105 h (including on-line): 32h – lectures, 20h – seminars, 53h - classes YEAR OF STUDY VI: 120 h (including on-line): 20h – seminars, 100h – classes + selected clinical course		
Assumptions and aims of the course	Student should gain knowledge in: medical interview and physical examination of children, morphological and physiological differences in organs and systems, nutrition, immunoprophylaxis, child development, causes, symptoms, principles of diagnosis and treatment in childhood diseases. The student should be able to: carry out a medical interview and physical examination of a child, plan and interpret additional examinations, plan specialist consultations, establish diagnosis and treatment of childhood diseases, perform basic procedures and medical treatment. The aims of the subject teaching are: transfer of skills and knowledge, social competencies related to developmental diseases, including: epidemiology, etiology, clinical symptoms, diagnosis, differentiation diagnosis, treatment, preventive and rehabilitative measures.		
Didactic methods	diagnosis, differentiation diagnosis, treatment, preventive and rehabilitative measures. - providing knowledge in a form of a lecture - seminar - discussion/classes - solving of practical clinical problems - discussion - analysis of clinical cases in a form of history of the disease - presentations of clinical cases		

	- self-education	
	- literature analysis	
	- consultation hours.	
	Department of Pediatrics and Nephrology: every second and fourth Tuesday of the month	
	from 14:00 to 15:00.	
	Department of Pediatrics, Endocrinology, Diabetology with Cardiology Unit: every second and fourth Thursday of the month from <i>14.00 to 15.00</i> .	
	Department of Pediatrics, Gastroenterology, Hepatology, Nutrition, Allergology and	
	Pulmonology: every second Tuesday of the month from 14.00 to 15.00.	
	Department of Pediatrics, Rheumatology, Immunology and Metabolic Bone Diseases: every second and fourth Wednesday of the month from 14.00 to 15.00.	
	Department of Pediatric Oncology and Hematology: every first Tuesday of the month from 14.00 to 15.00.	
	Department of Pediatric Infectious Diseases: every second Tuesday of the month from 14.00 to 15.00.	
	Department of Medical Simulations: every Tuesday of the month from 14.00 to 15.00.	
	Department of Neonatology and Newborn Intensive Care : every first Friday of the month	
	from 14.00 to 15.00.	
Full name of the		
coordinator conducting	Head of clinic/research-teaching/teaching employees	
the course		
Full name of the person	Dariusz Lebensztejn - Professor – teaching coordinator	
responsible for teaching	Heads of clinics / establishments in individual teaching units	

Symbol and number of learning outcomes according to the teaching standards and other learning outcomes	Description of directional learning outcomes	Form of classes	Verification methods for achieving intended learning outcomes
	Knowledge		
E.W1	The student knows: environmental and epidemiological backgrounds for most common diseases;	Lect. Semin. Class.	Summarizing methods e.g., - oral exam
E.W2	The graduate knows: principles of nutrition of healthy and ill children, breast feeding, prophylactic vaccination, keeping healthy balance of a child;	Lect. Semin. Class.	- written exam (test - forms, descriptive examination - an essay,
E.W3	The graduate knows: causes, symptoms and principles of diagnostic and therapeutic procedures for most common children diseases, such as: 1) rickets, tetany, convulsions, 2) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, syncope 3) acute and chronic diseases of the upper and lower respiratory tract, birth defects of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema 4) anemia, hemorrhagic diathesis, bone marrow failure, childhood neoplasms, including solid tumors typical for childhood, 5) acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel disease, pancreas disease,	Lect. Semin. Class.	report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests - case description

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E.U12 conducting differential diagnoses of most common adult and children diseases; E.U13 evaluating and characterizing somatic and psychic conditions of a patient; E.U14 recognizing emergency medical conditions; E.U16 planning diagnostic, therapeutic and preventive procedures; E.U17 conducting analysis of unwanted drug effects and drugdrug interactions; E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; E.U21 time of life, health condition or preferences affects the required standard procedures; as above - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ;	Classes, seminars, solving of practical clinical problems as above as above as above as above	- oral exam - written exam (test - forms, descriptive examination - an essay,
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E.U13 evaluating and characterizing somatic and psychic conditions of a patient; E.U14 recognizing emergency medical conditions; E.U16 planning diagnostic, therapeutic and preventive procedures; E.U17 conducting analysis of unwanted drug effects and drugdrug interactions; E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; E.U21 dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data;; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the
E.U14 recognizing emergency medical conditions; as above E.U16 planning diagnostic, therapeutic and preventive procedures; E.U17 conducting analysis of unwanted drug effects and drugdrug interactions; E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; E.U21 dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data;; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work
E.U16 planning diagnostic, therapeutic and preventive procedures; E.U17 conducting analysis of unwanted drug effects and drugdrug interactions; E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest
E.U16 planning diagnostic, therapeutic and preventive procedures; E.U17 conducting analysis of unwanted drug effects and drugdrug interactions; E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data;; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity
E.U17 procedures; E.U17 conducting analysis of unwanted drug effects and drugdrug interactions; E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above as above - assessment of preparation for classes - discussion in class - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data;; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom
E.U17 conducting analysis of unwanted drug effects and drug- drug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above as above - discussion in class - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each
drug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above - discussion in class - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity
E.U18 proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; - partial tests - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16	Skills conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data;; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of
E.U18 standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above - preliminary tests - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drug-	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes
therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; as above - case description	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drug-drug interactions;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class
therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures; - case description as above	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drugdrug interactions; proposing individualization of compulsory therapeutic	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests
dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures;	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16 E.U17	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drugdrug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests
E.U21 time of life, health condition or preferences affects the required standard procedures; as above	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16 E.U17	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drug-drug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests
required standard procedures;	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16 E.U17	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drug-drug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests
	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16 E.U17	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; ; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drugdrug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests
E.U24 Interpreting laboratory results and identifying causes of as above	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16 E.U17	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data;; evaluating the process of sexual maturation conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drug-drug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests
	E.U4 E.U7 E. U8 E.U9 E.U10 E.U11 E.U12 E.U13 E.U14 E.U16 E.U17	conducting a medical interview with a child and the family; conducting a physical examination of a child of every age; evaluating patient's general condition, consciousness and awareness; assesses the condition of the newborn on the Apgar score, assesses its maturity, examines neonatal reflexes comparing anthropometric measures and blood pressure measures with centile chart data; evaluating the process of sexual maturation conducting check-up conducting differential diagnoses of most common adult and children diseases; evaluating and characterizing somatic and psychic conditions of a patient; recognizing emergency medical conditions; planning diagnostic, therapeutic and preventive procedures; conducting analysis of unwanted drug effects and drug-drug interactions; proposing individualization of compulsory therapeutic standards or other methods of treatment in case of therapeutic inefficiency or contraindication to a regular therapy; dealing with a situation in which the patient's remaining time of life, health condition or preferences affects the required standard procedures;	Classes, seminars, solving of practical clinical problems as above	- oral exam - written exam (test - forms, descriptive examination - an essay, report, SSQ, etc.) Forming methods, e.g., - observation of the student's work - pretest - evaluation of the activity in the classroom - completion of each activity - assessment of preparation for classes - discussion in class - partial tests - preliminary tests

	differences from norm		
E.U25	applying a nutrition therapy: enteral and parenteral nutrition	as above	
E.U27	qualifies patients to vaccination	as above	
E.U29	Performing basic medical procedures such as: 1) body temperature measurement (surface and deep), heart rate measurement, noninvasive blood pressure measurement, 2) monitoring of vital signs with a cardio monitor, pulse oximetry, 3) spirometry, 5) intravenous, intramuscular and subcutaneous injection, peripheral vein cannulation, peripheral venous blood sampling, blood culture sampling, arterial blood collection, arterialized blood sampling, 7) bladder catheterization, gastric aspiration, gastric lavage, enema, 8) standard resting electrocardiogram and interpretation 9) simple strip tests and blood glucose assessment	classes	
E.U30	Assisting at the following medical procedures: 1) blood and blood derivatives transfusion, 5) lumbar puncture, 6) thin-needle biopsy, 7) epidermal tests, 8) intradermal and scarification tests and interprets result,	Practical classes	
E.U32	can plan specialist consultations,	Practical classes	
E.U33	knows how to institute basic treatment in acute poisonings	Practical classes	
E.U38	can fill in medical documentation.	Practical classes	
	Social competence		
K1	respects physician-patient privilege and patients' rights	Practical classes	
K2	is able to establish and maintain deep and respectful contact with the patient, as well as to understand the ideological and cultural differences	Practical classes	Summarizing methods
K3	is guided by the well-being of the patient	Practical classes	eg:.
K4	is aware of and recognizes its own limitations and conducts self-assessments of educational deficits and needs	Practical classes	- assessment by the assistant (observation) Forming methods
K5	undertakes actions towards the patient based on ethical principles, with the awareness of social conditions and restrictions resulting from a disease	Practical classes	- observation of the student's work - discussion in class
K6	promotes health-promoting behavior	Practical classes	
K7	uses objective sources of information	Practical classes	- opinion of patients and
K8	draws conclusions from his/her own measurements or observations	Practical classes	colleagues
K9	implements the principles of professional companionship and cooperation in a team of specialists, including representatives of other medical professions in a multicultural and multinational environment	Practical classes	
K10	formulates opinions on various aspects of professional	Practical classes	

	activity	
K11	accepts responsibility related to decisions taken as part of professional activities, including one's own other people's safety	Practical classes

ECTS I	ECTS points III year – 6; IV year – 6, V year – 5, VI year – 8			
	Student Workload			
	Form of activity Number of hours to complete the activity			
		Classes that require the participation	of a teacher	
1.	Realization of the cours	e: lectures (according to the curriculum)	III year: 28, IV year 46, V year: 32; total 106h	
2.	Dealization of the course	as alosses (aggording to the aurriculum)	III year: 37, IV year: 75, V year: 53, VI year:	
۷.	Realization of the cours	e: classes (according to the curriculum)	100; total 265h	
3.	Realization of the cours	e: seminars; (according to the	III year: 20, IV year: 19, V year: 20, VI year:	
	curriculum)		20; total 79h	
4. Participation in consultation		ntion	10h	
			Total hours: 460	
Student self-study 1 ECTS point means 25-30 hours of student work in a variety of forms, such as:				
1. Preparation for the theoretical and practical classes (realization of projects, documentation, case description etc.)			174h	
2.	Preparation for tests/cre	dits	60h	
3.	Preparation for an exam	/final test-credit	100h	
	·	·	Total: 334h	

Course content:		
Educational outcomes (symbol and number)	Subjects	
Department of Pediatrics, Rheumatology, Immunology and Metabolic Bone Diseases – 3 rd YEAR:		
E.W1, E.W2, E.W3/1, E.W3/10, E.W3/11, E.W4, E.W6, E.W37	 LECTURES: Introduction to Pediatrics. General issues and terms related to child care, ethical issues in pediatrics, basic information on pediatric services; outline of diagnostic guidelines and therapeutic standards in modern pediatrics (2h). Principles of immunoprophylaxis (1): General recommendations for vaccinations, objectives (of) and indications to vaccinations; the classification: types of vaccines; techniques of vaccine administration (2h). Principles of immunoprophylaxis (2): Immunization schedule: mandatory and recommended optional vaccinations; vaccination in risk groups, post-exposure prophylaxis (2h). Assessment of psychomotor development in infants and children: gross motor, fine motor, sensory functions, perception and vison, social development Diagnosis of delayed psychomotor development (2h). Updated approach to the nutrition of healthy children. Breastfeeding and complementary nutrition in infancy and childhood (2h). Pathogenesis and clinical presentation of selected metabolic 	

	disorders in pediatrics: a general overview part 1 (2h).
	7) Pathogenesis and clinical presentation of selected metabolic
	disorders in pediatrics: a general overview part 2 (2h).
	8) Puberty – physiology and clinical features; major health-
	related problems in adolescent medicine (2h).
	9) Eating disorders: <i>anorexia nervosa</i> , <i>bulimia nervosa</i> (2h).
	10) Vitamin D metabolism and clinical significance of
	vitamin D deficiency during growth. Some aspects of
	bone and mineral metabolism in infancy and childhood,
	including rickets and juvenile osteoporosis (2h).
	11) Child abuse (Maltreated / neglected child syndrome):
	medical, social and legal considerations (2h).
	12) Cerebral palsy. Fetal alcohol syndrome (FAS) (2h).
	13) Modern approach to treatment of primary
	immunodeficiences. Practical guidelines to diagnosis and
	management (2h).
	14) Basic principles and overview of the management in
	pediatric rheumatic diseases (2h).
EWI EWI EWI EWI EWIZ	1
E.W1, E.W2, E.W3, E.W4, E.W37 E.U7, E.U9, E.U10, E.U11, E.U12, E.U13, E.U14, E.U16,	SEMINARS: 1) History taking and physical examination in pediatrics:
	1) History taking and physical examination in pediatrics: safety rules, verbal and nonverbal communication doctor—
E.U17, E.U18, E.U21, E.U24, E.U27	patient relationship in pediatric care; principles of proper
	physical examination in pediatric patients (2h). 2) Assessment of physical development: methods, outcome
	1 7
	measures, algorithms and clinical interpretation of
	anthropometry in pediatrics (2h). 3) Practical aspects of immunoprophylaxis and
	immunization (2h).
	4) Examination of musculoskeletal system. Etiology,
	pathogenesis and clinical presentation of arthritis /
	arthropathy in children (2h).
	5) Etiology, pathogenesis and clinical presentation of
	juvenile idiopathic arthritis. Etiology, pathogenesis and
	clinical presentation of systemic connective tissue
	diseases (systemic lupus erythematosus, dermatomyositis,
	systemic scleroderma) (2h).
	6) Etiology, pathogenesis and clinical presentation of
	systemic vasculitis in children (Henoch-Schoenlein
	purpura, Kawasaki disease, rheumatic fever) (2h).
	7) The principles of pediatric neurological examination
	(2h).
	8) Seizures in children: classification and clinical
	presentation; diagnostic clues (2h).
	9) Neonatal screening onto inborn errors of metabolism, and
	selective metabolic screening in infancy: how, when, and
	whom? (2h).
	10) Clinical manifestation of the most common primary
	immunodeficiency (PID): Evaluation, red flags, and
	diagnosis (2h).
E.W1, E.W2, E.W3, E.W6, E.W37	CLASSES:
E.U2, E.U4, E.U7, E.U9, E.U10, E.U11, E.U12, E.U13,	1) History taking in pediatrics. The principles of pediatric
E.U14, E.U16, E.U17, E.U18, E.U21, E.U24, E.U27, E.U29,	medical records and casebook (2h).
E.U32, E.U38	2) Practical aspects of clinical antropometry. Using of
	growth charts (1h).
K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	3) Principles of pediatric physical examination (14h).
	4) Comprehensive practical approach to vaccinations, how
	to compose special individualized immunization
	schedule; facts and myths on vaccines, indications and
	contraindications to vaccinations: how to discuss
	difficult issues and parental concerns in the topic of
	vaccinations (2h).
	5) Principles of conducting and recording pediatric

screening. Check-up of well-being child. Evaluation of case series (2h). Diagnostic approach and general management of arthritis/arthropathies in children: Evaluation of case series (4h). Diagnostic approach and general management of juvenile idiopathic arthritis. Evaluation of case series Diagnostic approach, and treatment modalities in pediatric systemic connective tissue diseases and systemic vasculitis. Evaluation of case series (2h). Diagnostic and therapeutic approach in febrile seizures. Emergency cases including seizure event in a febrile child. The management / algorithms in status epilepticus. Evaluation of case series (4h). Diagnostic principles and therapeutic approach to most frequent primary immune deficiency syndromes in children. Evaluation of case series (4h). Department of Pediatrics and Nephrology – 4th YEAR: E.W1, E.W2, E.W3/3, E.W3/6, E.W6, E.W34 LECTURES: 1) Urinary tract infection in children (1h). 2) New guidelines for dealing with a child with urinary tract infections (1h). 3) Congenital defects of urinary tract (1h). 4) Vesico-ureteral reflux (1h). 5)Proteinuria in pediatric patient (1h). 6) Nephrotic syndrome in children (1h). 7) Pediatric hematuria diagnosis and treatment (1h). 8) Glomerulonephritis (1h). 9) Viral and bacterial infections of the upper respiratory tract in children (1h). 10) Acute diseases of the lower respiratory tract (1h). 11-12) Respiratory Tract Infections Pediatric Treatment Recommendations (2h). E.W1, E.W2, E.W3/3, E.W3/6, E.W34 **SEMINARS:** 1) Symptomatology of the respiratory system (cough, dyspnoea, wheezing, apnea, hemoptysis) (1h). 2) Viral and bacterial infections of the upper respiratory tract 3) Causes, symptoms, diagnostic and management rules in pneumonia in children (pneumonia, etiology of hospitalacquired and non-nosocomial pneumonia, pneumonia classification based on etiology, symptoms and management of lobular pneumonia, bronchopneumonia and interstitial pneumonia, pleuritis - causes, symptoms, diagnostics and management (1h). 4) Acute pyelonephritis, cystitis - clinical picture, factors predisposing to recurrent urinary tract infections, the most common defects of the urinary system (1h). E.W1, E.W2, E.W3/3, E.W3/6, E.W6, E.W34 CLASSES: E.U2, E.U4, E.U7, E.U9, E.U10, E.U12, E.U13, E.U16, 1) Discussion of clinical cases of patients with acute E.U24, E.U29/1, E.U29/2, E.U29/7, E.U30/6, E.U32, E.U38 respiratory tract inflammation (colds, pharyngitis, streptococcal angina, laryngitis, tracheitis, bronchiolitis, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11 bronchitis) (4h). 2) Discussion of diagnostics and therapeutic management of pneumonia in children; discussion of clinical cases of lobular pneumonia, bronchopneumonia, interstitial pneumonia and pleuritis on the basis of patients hospitalized at the Clinic or medical records of hospitalized patients (4h). 3)Discussion of the diagnosis and management of a child with acute pyelonephritis, cystitis, recurrent urinary tract infections based on the analysis of medical records of patients under the

Department of Pediatrics, Endocrinology, Diabetology	care of the Nephrology Department and Out-Patient Clinic, examination of patients in the ward - analysis of factors predisposing to urinary tract infection. Classes at the Nephrology Out-Patient Clinic (4h). 4) Examination of patients with acute respiratory tract inflammation (otitis, tonsillitis, angina). Practical training - examination of the oral cavity and oropharynx; ear examination: otoscopy - (2h). 5) Classes at the Department of Medical Simulations (4h): 1. Interview and physical examination of a child with respiratory diseases. 2. Anomalies in the history, physical examination and additional tests in a child with respiratory diseases. 3. Basic procedures realized in children during hospitalization.
with Cardiology Unit – 4 th YEAR:	LECTUDES.
E.W1, E.W2, E.W3/2, E.W3/7, E.W3/10. E.W6, E.W37	LECTURES: 1) Thyroid disease: hyperthyroidism (1h). 2) Thyroid disease: hypothyroidism (1h). 3) Simple goiter in children (1h). 4) Cushing Syndrome (1h). 5) Precocious puberty (1h). 6) Parathyroid diseases in children (1h). 7) Poliendocrynopathies in children (APS syndromes) (1h). 8) Multiple endocrine syndromes (MEN syndromes) (1h). 9) Diabetes in children – pathogenesis (1h). 10) Diabetes in children – future perspectives (1h). 11) Diabetes in children – late complications (1h). 12) Metabolic syndrome (1h). 13) Monogenic forms of diabetes (1h). 14) heart failure in children (1h). 15) Myocarditis (1h). 16) Endocarditis. Pericarditis (1h). 17) Dysrhythmias part 1. (1h). 18) Dysrhythmias part 2. (1h). 19) Cardiomyopathies (1h). 20) Electric heart disorders (1h).
E.W1, E.W2, E.W3/2, E.W3/7, E.W6, E.W37	SEMINARS:
E.U12, E.U16, E.U17, E.U18, E.U32	 Diabetes in children – type 1, type 1, MODY, LADA introduction (1h). Emergency situations in pediatric endocrinology and diabetology (1h). Treatment of diabetes in children. Basic schemes of pens insulin therapy and continuous subcutaneous insulin infusion – insulin pumps (1h). Pituitary diseases in children (1h). Thyroid nodules and thyroid carcinoma n children (1h). ECG – pediatric differences (1h). Congenital heart diseases part I - Ductus arteriosus dependent CHD (1h). Congenital heart diseases part II (1h). Chest pain - Do children have myocardial infarctions? (1h). Heart murmurs – Is it all congenital heart disease? (1h).
E.W1, E.W2, E.W3/2, E.W3/7, E.W6, E.W37	CLASSES:
E.U2, E.U4, E.U7 E.U8, E.U9, E.U10, E.U11, E.U12, E.U13, E.U14, E.U16, E.U17, E.U18, E.U24, E.U29/1, E.U29/2, E.U29/8, E.U29/9, E.U32, E.U38	 Endocrinology and Diabetology Course Growth hormone insufficiency. Primary IGF-1 insufficiency. Pathogenesis, diagnosis and treatment (2,8h). Adrenal diseases (congenital adrenal hyperplasia, primary adrenal insufficiency. Addison disease) (2,8h)
K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	adrenal insufficiency – Addison disease) (2,8h). 3) Diabetic ketoacidosis (2,8h). 4) Hypoglycemia (2,8h).

Department of Pediatric Infectious Diseases – 4 th YEAR: E.W1, E.W2, E.W3/8, E.W3/9, EW6, E.W34	 Ambulatory care in endocrinology and diabetology (2,8h). Cardiology Course Indications to echocardiography, general principles and diagnostic options (2,8h). Echocardiography in congenital heart diseases (2,8h). Practical classes in pediatric ECG (2,8h). Stress test. Holter. Indications. Principles of the methods. Contradictions (2,8h). Hypertension in children (2,8h). LECTURES: Nosocomial infections in children (1h). Prevention of hospital acquired infections – hand hygiene, types of isolation (1h). Emerging pediatric infectious diseases (1h). Traveling with children (1h). Invasive meningococcal and pneumococcal diseases (1h). Tick-borne diseases: Lyme disease, Tick Borne Encephalitis (TBE) (1h). Pertussis in vaccinated and unvaccinated children (1h). Influenza and viral acute respiratory infections in children. Pediatric tuberculosis (1h). Lymphadenopathy in children. Infectious mononucleosis(1h). Pediatric HIV infection, prevention of mother-to-child
E.W1, E.W3/8, E.W3/9, E.W6, E.W34, E.U7, E.U12, E.U16, E.U17, E.U24, E.U32 E.U2 E.U4, E.U7, E.U12, E.U13, E.U14, E.U16, E.U17, E.U18, E.U24, E.U27, E.U29, E.U30/5, E.U32, E.U38 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	transmission (1h). SEMINARS: 1) Management of pediatric acute gastroenteritis (1h). 2) Viral rash diseases in children (chickenpox, erythema infectiosum, erythema subitum, HSV infections, measles, HFMD) (1h). 3) Bacterial rash diseases in children (GAS infections, Staphylococcal infections) (1h). 4) Neuroinfections in children (enteroviruses, HSV, Listeria, purulent and fungal meningitis) (1h). 5) Parasitic disorders (toxoplasmosis, toxocarosis, ascariasis, oxyuriasis, giardiasis, scabies, lice (2h). CLASSES: 1) Diarrhea in children – diagnosis and treatment: oral rehydratation therapy, intravenous therapy, management of metabolic acidosis and electrolyte imbalance (4h). 2) Viral infections in children: physical examination, differential diagnosis (4h). 3) Bacterial diseases in children: differential diagnosis, antibiotic therapy (4h). 4) Neuroinfections in children: symptoms, workup, treatment. Lumbar puncture, Cerebrospinal fluid examination (6h). 5) Pediatric parasitic infections: symptoms, workup, treatment
Department of Neonatology and Newborn Intensive Care - 4 rd YEAR:	(4h).
E.W1, EW2, E.W6, E.W34, E.W37	LECTURES: 1) Preterm newborn (2h). 2) Pathologies of the neonatal period (2h).
E.W1, EW2, E.W6, E.W34, E.W37 E.U4, E.U8, E.U9, E.U12, E.U13, E.U14 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	CLASSES: 1) Medical history and physical examination of the newborn, including newborn transitional period (4h). 2) Assessment of the newborn's condition according to the Apgar scale, assessment of the general condition of the newborn, assessment of the newborn's maturity, examination of neonatal reflexes. Performing anthropometric measurements, comparing the results with data on percentile

Department of Pediatrics, Gastroenterology, Hepatology,	charts (1h). 3) Discussion of the newborn's qualifications for preventive vaccinations and the principles of screening. Overview of the nutrition of full-term and premature newborns (1h). 4) Discussion of neonatal jaundice, including the measurement of bilirubin in blood and transdermal bilirubin, and comparison of the results with the data on percentile charts (1h).	
Nutrition, Allergology and Pulmonology – 5 th YEAR: E.W1, E.W2, E.W3/3, E.W3/5, E.W6, E.W32, E.W37	LECTURES:	
E. W 1, E. W 2, E. W 3/3, E. W 0, E. W 32, E. W 3/	 Allergy and food intolerance (2h). Bronchial asthma Allergic rhinitis (2h). Chronic hepatitis (viral, autoimmune, NAFLD, metabolic) (2h). Selected aspects of hyperbilirubinemia (cholestasis, functional hyperbilirubinemia, selected liver metabolic diseases) (2h). Gallstones and bile ducts. Diseases of the pancreas (2h). Cirrhosis and liver failure (acute, chronic). Portal hypertension (2h). Inflammatory bowel diseases (2h). Eosinophilic gastroenteritis. Colon polyps (2h). Celiac disease and other diseases associated with gluten. Chronic diarrhea (2h). Upper and lower gastrointestinal bleeding (1h). Peptic ulcer disease. Gastritis. Helicobacter pylori infection 	
	(1h).	
E.W1, E.W2, E.W3/3, E.W3/5, E.W37 E.U7, E.U13, E.U14, E.U16, E.U17, E.U25	 Functional gastrointestinal disorders (Criteria Roman IV (2h). SEMINARS: Cystic fibrosis and tuberculosis in children (1h). Atopic dermatitis. Urticaria (1h). Gastroesophageal reflux disease in children. Achalasia (1h). Children's feeding disorders (1h). Anaphylaxis. Insect sting allergies (1h). Foreign bodies of the GI tract. Chemical injuries of the esophagus (1h). Pulmonary function tests - obtaining and interpretation (1h). Principles of enteral and parenteral nutrition in children (1h). 	
E.U2, E.U4, E.U7, E.U9, E.U12, E.U13, E.U16, E.U18, E.U.24, E.U25, E.U30g,h, E.U32, E.U38, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	 CLASSES (department and outpatient clinics): 1) Tests in the diagnosis of allergic diseases. Oral food challenges (2,5h). 2) Elimination diets. Medical reasons for use of breast-milk substitutes (2,5h). 3) Abdominal pain (2,5h). 4) Vomiting (2,5h). 5) Constipation (2,5h). 6) Hypertransaminasemia (2,5h). 7) Chronic diarrhea (2,5h). 8) Upper gastrointestinal bleeding (2,5h). 9) Lower gastrointestinal bleeding (2h). 10) Guidelines for performance and interpretation of GI tract function tests (2h). 	
Department of Pediatric Oncology and Hematology – 5th YEAR:		
E.W1, E.W2, E.W3/4, E.W6, E.W34	LECTURES: 1-2) Childhood anemias (2h). 1. deficiency anemias 2. hemolytic anemias and bone marrow failure. 3) Hemorrhagic diathesis in children, thrombocytopenia, clotting factors deficiencies, vessels disturbances (1h).	

	4) (1:11) 11 1 1 (11)
	 4) Childhood leukemia (1h). 5) Hodgkin and non-Hodgkin lymphomas in children (1h). 6-9) Childhood solid tumours: 6-7) Nephroblastoma, neuroblastoma, hepatoblastoma, gonadal tumors (2h). 8-9) Tumours of central nervous system, bone tumours, soft tissues sarcomas (2h). 10) Long-term side effects after antineoplastic treatment in children (1h).
E.W1, E.W2, E.W3/4, E.W6, E.W34 E.U2, E.U4, E.U7, E.U10, E.U12, E.U14, E.U16, E.U17, E.U18, E.U21, E.U24, E.U27	SEMINARS: 1) Symptomatology of childhood malignancies (1h). 2) Epidemiology of childhood malignancies (1h). 3) Emergencies in paediatric oncology (1h). 4) Early complications after antineoplastic treatment in childhood (1h). 5) Practical aspects of anemia treatment in children (1h). 6) Hypercoagulation in children (1h). 7) Leukopenia and neutropenia- causes, diagnostics,
E.U2, E.U4, E.U7, E.U9, E.U10, E.U11, E.U12, E.U13,E.U14, E.U16, E.U17, E.U18, E.U21, E.U24, E.U25, E.U27, E.U29/5, E.U30/1, E.U30/6, E.U32, E.U38 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	treatment (1h). CLASSES: 1) Organization of the department of pediatric oncology and hematology (including outpatient unit, principles of protective isolation in patients with neutropenia) (1h). 2) Medical history and physical examination in pediatric oncology and hematology, when to suspect childhood cancer? (5h). 3) Interpretation of laboratory and radiological findings in childhood malignancies (3h). 4) Differential diagnostics in pediatric oncology (4h). 5) Principles of antineoplastic treatment and supportive care in pediatric oncology (1h). 6) Observation and care of a child during and after antineoplastic therapy (4h). 7) Outpatient care of a child during antineoplastic treatment (2h). 8) Analysis of the diagnostic and therapeutic process of patients hospitalized in the department due to cancer and hematological diseases (2h). 9) Taking medical interview form parents and patients, and physical examination of the patients currently hospitalized at the department of pediatric oncology and hematology (5h). 10) Monitoring of health status in long-term survivors after
Department of Padiatrics and Nanhrology 6 th VEAP	antineoplastic treatment (1h). 11) Principles of care of child with hemophilia (1h).
E.W1, E.W2, E.W3/6 E.U2, E.U4, E.U7, E.U9, E.U10, E.U12, E.U13, E.U16, E.U24, E.U29/1, E.U29/2, E.U29/3, E.U29/5, E.U29/7, E.U30/6, E.U32, E.U38 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	CLASSES: 1) Urinary tract infection and voiding disorders in children - Pathogenesis, epidemiology, clinical symptoms, diagnostic and therapeutic procedures in urinary tract infections and the most common disorders of urination in children (primary bedwetting, secondary urination disorders, neurogenic bladder, overactive bladder). Principles of performing the urodynamic examination, uroflowmetry, urotherapy (4h). 2) Diagnostic and therapeutic standards of treatment in a child with hematuria, proteinuria in the course of glomerulonephritis, nephrotic syndrome, genetically determined kidney diseases - analysis of medical records of patients under the care of the Nephrology Department and Out-Patient Clinic, discussing the general guide on writing case reports and publishing results of scientific research works, examination of patients in the ward - writing epicrises, determining the further treatment plan of

	the patient (4h). 3) Diagnostic and therapeutic standards in a child with arterial hypertension of renal origin and renovascular hypertension - analysis of medical records of patients under the care of the Nephrology Department and Out-Patient Clinic, examination of patients in the ward, analysis of Ambulatory Blood Pressure Monitoring (4h). 4) Diagnostic and therapeutic standards in a child with acute renal failure and chronic kidney disease on the basis of medical records of patients under the care of the Nephrology Department and Out-Patient Clinic, examination of patients present in the ward, familiarization with the functioning of dialysis centers for children and the peritoneal dialysis and hemodialysis rules (3h). 5) Use of laboratory tests in nephrology. A detailed discussion of laboratory and radiological tests for nephrology (interpretation of urinalysis, urine culture, peripheral blood morphology, renal function parameters, inflammatory parameters, ultrasound, radiological, scintigraphic and pathomorphological tests in nephrological diagnostics). Urolithiasis; diagnostic and therapeutic standards in of renal colic in children classes at the Department of Medical Simulations (4h). 6) Principles of dealing with a pediatric trauma patient at the Children's Trauma Center, treatment of acute poisoning in children, management of selected emergencies in children (cardiac arrest, respiratory failure, convulsions, shock) - classes at the Emergency Department or Night Medical Assistance (NPL) of the University Children's Clinical Hospital in the afternoon (on duty) (3h).
Department of Pediatrics and Nephrology – 6 th YEAR:	SOLVING OF PRACTICAL CLINICAL PROBLEMS:
E.W1, E.W2, E.W3/6 E.U2, E.U4, E.U7, E.U9, E.U10, E.U12, E.U13, E.U16, E.U24, E.U29/1, E.U29/2, E.U29/3, E.U29/5, E.U29/7, E.U30/6, E.U32, E.U38	 Urinary tract infection and voiding disorders in children (2h) Hematuria and proteinuria in children – differential diagnosis (2h) Young patient with hypertension (2h) High serum creatinine concentration and then what? (2h) Questions from pediatric part of medical examination (LEK) – solving and discussion (2h)
Department of Pediatrics, Endocrinology, Diabetology with Cardiology Unit -6^{th} YEAR:	
E.W1, E.W2, E.W3/2, E.W3/7, E.W6, E.W37 E.U2, E.U4, E.U7, E.U9, E.U10, E.U11, E.U12, E.U13, E.U14, E.U16, E.U17, E.U18, E.U24, E.U29/1, E.U29/2,	CLASSES: 1) Endocrinology. Sex differentiation disorders in children. What should young doctor know? (6,25h). 2) Diabetology. Practical classes in pediatric diabetology: a) Screening tests for complications and additional diseases, b) insulin therapy modification with pens and pumps, c) treatment of diabetic ketoacidosis and hypoglycemia (6,25h) – do it yourself.

Department of Pediatrics, Endocrinology, Diabetology with Cardiology Unit -6^{th} YEAR:	SOLVING OF PRACTICAL CLINICAL PROBLEMS:
E.U2, E.U4, E.U7, E.U9, E.U10, E.U11, E.U12, E.U13, E.U14, E.U16, E.U17, E.U18, E.U24, E.U29/1, E.U29/2, E.U29/8, E.U29/9, E.U32, E.U33, E.U38	 ECG – physiology and pathology in pediatrics (2,5h). Secondary hyperytension in children (2,5h). From hyperglycaemia to diagnosis. Differential diagnosis of diabetes in children (2,5h). Pediatric cardiology interesting cases (2,5h).
Department of Pediatrics, Gastroenterology, Hepatology, Nutrition, Allergology and Pulmonology – 6 th YEAR	
E.W1, E.W2, E.W3e, E.W4, E.U2, E.U4, E.U7, E.U12, E.U14, E.U16, E.U17, E.U18, E.U21, E.U24, E.U25, E.U32, E.U38, K1, K2, K4, K4, K5, K6, K7, K8, K9, K10, K11	 CLASSES (department and outpatient clinics):: Drug allergy, cross-sensitivity contact allergy, Malnutrition in allergic diseases (5h). Pediatric gastrointestinal endoscopy - background, indications, contraindications, general principles of endoscopic imaging. Celiac disease. Other gluten related disorders (5h). Bronchial asthma (5h) Crohn disease. Ulcerative colitis. Malnutrition in gastrological diseases (5h). Jaundice, cholestasis. Malnutrition in hepatological diseases (5h).
Department of Pediatrics, Gastroenterology, Hepatology, Nutrition, Allergology and Pulmonology – 6 th YEAR	SOLVING OF PRACTICAL CLINICAL PROBLEMS:
E.W1, E.W2, E.W3/3,5 E.U12, E.U18, E.U24, E.U25	 Hypertransaminasemia (2h). Vomiting (2h). Angioedema, Protein-losing enteropathy (2h). Lower gastrointestinal bleeding (2h). Asthmatic state (2h).
Department of Pediatric Infectious Diseases – 6th YEAR:	
E.W1, E.W3/9, E.W6, E.W34 E.U7, E.U12, E.U16, E.U17, E.U24, E.U32	SOLVING OF PRACTICAL CLINICAL PROBLEMS: 1) A child with rash – differential diagnosis (1h). 2) A child with fever – differential diagnosis (1h). 3) Congenital toxoplasmosis and congenital cytomegalovirus infection (1h).
Department of Neonatology and Newborn Intensive Care - 6 rd YEAR:	
E.W1, EW2, E.W3/2, E.W6, E.W34, E.U2, E.U4, E.U7, E.U8, E.U9, E.U12, E.U13, E.U14, E.U16, E.U24 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	CLASSES: 1) History and physical examination of a full-term newborn, analysis of the results of laboratory and imaging results, conducting differential diagnosis and proposing treatment (2h). 2)Medical and physical examination of a preterm newborn, analysis of the results of laboratory and imaging tests, conducting differential diagnosis and proposing treatment (2h). 3)Discussion of the problems of a hypertrophic and hypotrophic newborn, taking into account environmental and epidemiological conditions, deviations in physical and physical examination, analysis of laboratory and imaging tests results, differential diagnosis and therapeutic management (2h). 4)Discussion of the causes, symptoms, principles of diagnosis and therapeutic and prophylactic management in the most common bacterial, viral and fungal diseases of the neonatal period (2h).

E.W1, E.W2 E.U2, E.U4, E.U7, E.U12, E.U14, E.U15, E.U16. E.U17, E.U18, E.U24, E.U29, E.U32, E.U38 CLASSES: 1) Dyspnoe in infants and children, asthma (1h). 2) Dysrhythmias in children (1h). 3) Fever and seizure, sepsis, septic shock in children (1h). 4) Congenital heart diseases (1h). 5) Electrolyte / fluid imbalance and acid-base disturbances in neonates and infants (1h). 6) Inherited metabolic disorders (1h). 7) Cerebral oedema (1h) Practical classes are conducted as the participation in the scenarios of high-fidelity medical simulation. Students will play their roles as the participants of multidisciplinary team, taking care of the patient. After running the scenario students (with the teacher) will comment the scenario, standards in diagnostics and treatment, including conclusions for their future. Each class will begin with the assessment of students' knowledge, then running the scenario and debriefing at the end.	E.W1, EW2, E.W6, E.W34 E.U4, E.U8, E.U9, E.U12, E.U13, E.U14 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	5)A theoretical and practical overview of the management of a newborn born in asphyxia, including resuscitation (1h). 6)Discussion of the problems of a newborn with breathing disorders, taking into account environmental and epidemiological conditions, deviations in physical and medical examination, analysis of laboratory and imaging tests results, differential diagnosis (taking into account congenital heart defects) and therapeutic management (2h). SOLVING OF PRACTICAL CLINICAL PROBLEMS: 1)The most common problems in the neonatal period after discharge from the hospital (lactose intolerance, infantile colic, gastroesophageal reflux). Caring for a premature newborn discharged home (2h). 2)Newborn with thrombocytopenia (1,5h). 3)The most common lactation problems (2h). 4)Neonatal hypoglycemia (1,5h).
E.U2, E.U4, E.U7, E.U12, E.U14, E.U15, E.U16. E.U17, E.U18, E.U24, E.U29, E.U32, E.U38 1) Dyspnoe in infants and children, asthma (1h). 2) Dysrhythmias in children (1h). 3) Fever and seizure, sepsis, septic shock in children (1h). 4) Congenital heart diseases (1h). 5) Electrolyte / fluid imbalance and acid-base disturbances in neonates and infants (1h). 6) Inherited metabolic disorders (1h). 7) Cerebral oedema (1h) Practical classes are conducted as the participation in the scenarios of high-fidelity medical simulation. Students will play their roles as the participants of multidisciplinary team, taking care of the patient. After running the scenario students (with the teacher) will comment the scenario, standards in diagnostics and treatment, including conclusions for their future. Each class will begin with the assessment of students' knowledge, then running the scenario and debriefing at the end.	Department of Medical Simulations – 6 th YEAR:	The continual representation of the continual representation o
	E.U2, E.U4, E.U7, E.U12, E.U14, E.U15, E.U16.	 Dyspnoe in infants and children, asthma (1h). Dysrhythmias in children (1h). Fever and seizure, sepsis, septic shock in children (1h). Congenital heart diseases (1h). Electrolyte / fluid imbalance and acid-base disturbances in neonates and infants (1h). Inherited metabolic disorders (1h). Cerebral oedema (1h) Practical classes are conducted as the participation in the scenarios of high-fidelity medical simulation. Students will play their roles as the participants of multidisciplinary team, taking care of the patient. After running the scenario students (with the teacher) will comment the scenario, standards in diagnostics and treatment, including conclusions for their future. Each class will begin with the assessment of students' knowledge, then

Criteria for assessing the achieved learning outcomes and the form and conditions for receiving credit:

YEARS 3rd to 5th

- A. Attendance and completion all pediatric classes, lectures, and seminars (including e-learning). Only one justified absence (see point 20 of the Regulations) from a seminar or clinical lab per semester is allowed, without the obligation to re-sit/retake that given class/seminar/lab. A student having more than one justified absence per semester is entitled to an individual completion of the practical classes and seminars, preferably with another group (or, if not possible, in another manner determined by the head of the department), before the end of the ongoing semester.
- B. To pass the credit/test: The form of the credit/test will be determined by the head of a given pediatric department (oral exam, written exam, or multiple-choice test, etc.), and will be announced before the beginning of the academic year. If the pediatric course is carried out in several pediatric departments in a given year; a student must pass the credit/test in each department independently.

YEAR 6th

Attendance all clinical labs and practical solving of clinical problems classes (PSCP) conducted by each of the pediatric departments (including e-learning): Only one justified absence (see point 20 of the Regulations) from a clinical lab per one semester is allowed, without the obligation to re-sit/retake that given class/seminar/lab. A student having more than one justified absence per semester is entitled to an individual completion of the practical classes

and seminars, preferably with another group (or, if not possible, in another manner determined by the head of the department). Any absence from PSCP classes must be retaken with another group (or, if not possible, to receive a credit from the teacher/assistant leading the PSCP class/es).

Regulations and legal provisions for the Final Exam in Pediatrics.

A. Opening remarks and general arrangements

- 1) The Exam in Pediatrics in the 6^{th} year consists of two sequential sections: a **test** and an **oral exam with practical elements**. Positive evaluation and passing the test is required to proceed to the oral exam.
- 2) The suggested reading and basic textbooks are specified in the syllabus.
- 3) No exam exemption is foreseen. All students must take the final exam/test.

B. The test

- 1) The test consists of 100 questions. Each question contains 5 possible answers. Only one answer is correct per question. No less than 25% of the questions will be practical-based (ie. analysis of laboratory results, radiological imaging, ECG). The duration of the test will be calculated based on the length of the questions.
- 2) Students are not allowed to communicate verbally or non-verbally with persons other than the assistants and staff during the test (see points 12 and 13 of the Regulations). Any violations of these rules will result in a failing grade
- 3) The test questions concern the entire content of the subject and reflect all areas of pediatrics discussed and trained throughout the university course and curriculum according to the syllabus for the 3rd to 6th study years. The range and the set of test questions are prepared in a way assuring objectivity. The sequence of questions and answers will be randomized between students.
- 4) The results of the test will be announced within the 3 workdays from the date of the test. A commonly accepted form of publicizing will be used, in accordance with local policy and usual procedures of personal data protection.
- 5) Scoring/grading of the written test are as follows:

% of correct answers	Grade
<60.00	unacceptable (fail = 2)
60.00 – 67.99	acceptable (passing grade = 3)
68.00 – 74.99	average (3.5)
75.00 – 81.99	good (4)
82.00 – 89.99	above good (4.5)
90.00 - 100.00	excellent (5)

- 6) The examinee may to submit his/her objections/disputes concerning questions and/or answers in written form, immediately after having completed the test and before leaving the auditorium/exam location. Any submitted objections will be carefully reviewed by the examining board before scoring. In cases of accepted/acknowledged disputes, the relevant question/item will be nullified. Nullified questions will not be graded and will not be scored. The total available marks for the exam will be appropriately corrected.
- 7) The student is entitled to the inspection of his/her exam forms (answer sheet) within 3 days after the announcement of the results in the secretary's office of the department responsible for organizing the test. Following this term, insight into the works and exam papers will be no longer possible.
- 8) Students who will fail the test are not entitled to sit the oral exam.
- 9) In case of a necessity of organizing the exam through an e-learning platform, the regulations may be amended.

C. Oral exam

- 1) The oral exam is scheduled in all academic units involved in pediatric teaching throughout the pediatrics course.
- 2) The oral exam is carried-out within 3 consecutive weeks following the date of the announcement of the Test results. The exact date and number of students eligible to enter the oral exam will be announced by the head/chair of a pediatric department.
- 3) The assignment to the location of the oral exam (pediatric department), is randomized. The drawing is carried out by the Department of Pediatrics, Gastroenterology, Hepatology, Nutrition, Allergology, and Pulmonology in the presence of eligible student representatives within 2 workdays of the announcement of the test results.
- 4) The Oral exam will consist of 3 items / problem-oriented questions with special regard to the most significant practical aspects of pediatrics.

The final outcome and grade of the entire pediatric exam is the arithmetical mean achieved of both the test and oral exam.

D. Exam retake - regulations

- 1) Students who fail the exam (either of the two exam components) will be granted two (2) opportunities to retake it. The first retake test will be organized within 4 weeks following the first test date. The second retake will take place within 2 weeks of the first retake exam.
- 2) Students who fail the oral exam will be allowed to retake the oral exam if the student has not had to retake the written exam. The date of the retake of the oral exam will be arranged by the examiner, but no later than the end of the winter exam session (April, 30th).
- 3) Retake exams will be conducted in a manner and procedure analogous to the exam on the first attempt.

In matters otherwise not outlined by these Regulations, the provisions of the general Regulations of the Study at MUB apply.

Dariusz Lebensztejn - Professor - teaching coordinator