

SYLLABUS - ANNEX

The academic year when the cycle of instruction is commenced 2019-2025

INT

Module/course name:	Pediatrics		Module code	LK.3.E002
Faculty:	Faculty of Medicine MUL			
Major:	Medical			
Specialty:				
Level of study:	I (Bachelor studies) <input type="checkbox"/> II (Master studies) <input type="checkbox"/> Integrated Master studies <input checked="" type="checkbox"/> Doctoral studies <input type="checkbox"/>			
Mode of study:	full-time <input checked="" type="checkbox"/>			
Year of study:	I <input type="checkbox"/> II <input type="checkbox"/> III <input checked="" type="checkbox"/> IV <input checked="" type="checkbox"/> V <input checked="" type="checkbox"/> VI <input type="checkbox"/>	Semester:	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> X 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/>	
Module/course type:	obligatory <input checked="" type="checkbox"/> elective <input type="checkbox"/>			
Language of instruction:	Polish <input type="checkbox"/> English <input checked="" type="checkbox"/>			
Form of education	Hours			
Lecture	10 e-learning lectures			
Seminar	67 e-learning seminars			
Laboratory class	138			
E-learning	possibility of conducting 20% of classes on-line			
Practical class				
Internship				
Other				
TOTAL	215			
Student's work input (participation in class, preparation, evaluation, etc.)	Student's hourly workload			
1. In class	215			
2. Student's own work including: 1 Preparation for class 2 Preparation for partials and finals	145			
Summary of the student's workload	360			
ECTS points for module/course	12			

Educational objectives: The main goal of pediatric program is to achieve a knowledge on human development, health habits and prophylaxis of different disorders, as well as knowledge and practical skills related to causes, clinical symptoms, diagnostic and therapeutic principles in most common childhood disorders (within the scope of pulmonology, cardiology, rheumatology, nephrology, hematology, oncology, gastroenterology, endocrinology and neurology). Students should be able to distinguish basic pathologic symptoms in pediatric patient. They should be able to examine a child of any age, especially newborn and infant. Particular care is taken to teach students how evaluate psychomotor and physical growth and development.

The matrix of learning outcomes for module/ subject with reference to verification methods of the intended educational outcomes and forms of instruction:

Learning outcome code	A student who has obtained a credit for the module/course has the knowledge/skill to:	Methods of verifying the achievement of the intended learning outcomes:	Form of instruction * provide the symbol
W01. (E.W1).	knows the genetic, environmental and epidemiological background of most common diseases;	MCQ written test with the possibility of using an e-learning platform	C,L,S
W02 (E.W2).	knows the principles of nutrition for healthy and sick children, principles of preventive vaccinations and keeping child's health records;	MCQ written test with the possibility of using an e-learning platform	C,L,S

<p>W03 (E.W3. a,b, c, d, e, f, g, h, i, k)</p>	<p>knows anatomical and physiological differences between children of all ages</p> <p>knows and understands the causes, symptoms, principles of diagnosing and therapeutic procedures of most common children's diseases:</p> <ul style="list-style-type: none"> - acute and chronic diseases of upper and lower respiratory tract, congenital respiratory tract defects, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria anaphylactic shock, angioedema, - anemia, bleeding diathesis, bone marrow failure, pediatric malignancies, including solid tumors specific for pediatric cancers - evaluation of urinalysis, urinary tract infections, congenital abnormalities of urinary tract, acute and chronic glomerulonephritis, nephrotic syndrome, urolithiasis, acute and chronic kidney failure, voiding disorders, kidney involvement in systemic and metabolic diseases, voiding disorders, neurogenic bladder - arthritis and connective tissue disorders: juvenile idiopathic arthritis, systemic lupus erythematosus, dermatomyositis, scleroderma. systemic vasculitis, rheumatic fever - rickets, tetany, convulsions - heart defects, myocarditis, endocarditis, pericarditis, cardiomyopathy, rhythm abnormalities, cardiac failure, arterial hypertension, fainting - acute and chronic stomach pain, vomiting, diarrhea, constipation, bleeding from digestive tract, gastric ulcers and nonspecific disorders of intestines, pancreas disorders, cholestasis and hepatic disorders, other acquired or congenital disorders of the digestive tract - growth disorders, disorders of thyroid and parathyroid glands, adrenal disorders, diabetes, obesity, puberty disorders and disorders of sex differentiation - cerebral palsy, encephalitis, meningitis, epilepsy, pseudoepilepsy, headaches, cerebrovascular diseases, mental retardation, autism - the most common pediatric infectious diseases 	<p>MCQ written test with the possibility of using an e-learning platform</p>	<p>C, L, S</p>
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W04 (E.W4.)	is aware of the problems of child abuse and sexual abuse, mental deficiencies, behavioral disorders, psychoses, addictions, nutrition and excretion disorders in children	MCQ written test with the possibility of using an e-learning platform	C, L
W05 (E.W6.)	knows the most common life hazard conditions in children and management strategies in such situations	MCQ written test with the possibility of using an e-learning platform	C
W06 (F.W15)	knows the principles of suspecting and diagnosing brain death	MCQ written test with the possibility of using an e-learning platform	C
U01 (E.U2.)	carries out history taking in a child and his/her family	Practical exam with the possibility of using an e-learning platform	C
U02 (E.U4.)	performs physical examination of a child of any age	Practical exam with the possibility of using an e-learning platform	C
U03 (E.U9.)	compares anthropometric and blood pressure measurements with data in growth chart	Practical exam with the possibility of using an e-learning platform	C
U04 (E.U8)	can assess newborn's condition according to Apgar scale, gestational age, examine newborn's reflexes	Practical exam with the possibility of using an e-learning platform	C
U05 (E.U10.)	can assess the stage of the puberty according to the Tanner scale	Practical exam with the possibility of using an e-learning platform	C
U06 (E.U11.)	performs well-child check-ups	Practical exam with the possibility of using an e-learning platform	C
U07 (E.U12.)	performs differential diagnostics of most common diseases in children	Practical exam with the possibility of using an e-learning platform	C
U08 (E.U13.)	assesses and describes somatic and mental condition of patient	Practical exam with the possibility of using an e-learning platform	C

U09 (F.U6.)	can perform rectal examination	Practical exam with the possibility of using an e-learning platform	C
E.U14	is capable to diagnose life-threatening conditions in children	Practical exam with the possibility of using an e-learning platform	C
U11 (E.U17)	can identify adverse events related to drugs used in children	Practical exam with the possibility of using an e-learning platform	C
U12 (E.U18)	can propose modification therapy or other therapeutic methods in a case of treatment failure or contradiction to standard therapy	Practical exam with the possibility of using an e-learning platform	C
U13	can interpret results of biochemical tests and imaging examinations	Practical exam with the possibility of using an e-learning platform	C
U14 (E.U29)	perform and interpret basic medical procedures appropriate in children at any ages, including : <ul style="list-style-type: none"> - measurements of temperature, pulse rate, blood pressure - monitoring of vital parameters using cardiomonitor, pulsoxymeter - spirometric examination, oxygen therapy, support ventilation and mechanical ventilation - different type of injections and blood samples aspiration - obtaining of throat, nose and skin swabs for bacterial cultures - standard electrocardiogram and its interpretation, electric cardioversion and heart defibrillation , - blood glucose monitoring with strip tests 	Practical exam with the possibility of using an e-learning platform	C
K01	is careful/critical in giving his/her opinions and consults his/her remarks with experienced doctors	Teacher's observation Observation sheet, including: e-learning, videoconference	C, L
K02	is sensitive to child's suffering and understands parents' anxiety	Teacher's observation Observation sheet, including: e-learning, videoconference	C

K03	cooperates agreeably with the team of doctors and nurses, also can work in a group of students	Teacher's observation Observation sheet, including: e-learning, videoconference	C
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EXAMPLES OF METHODS VERIFYING THE ACHIEVEMENT OF THE INTENDED LEARNING OUTCOMES:

In terms of knowledge: Oral exam (*non-standardized, standardized, traditional, problem-based*).

Written exam – the student produces/identifies answers)*essay, report; structured short-answer questions /SSQ/; multiple choice questions /MCQ/; multiple response questions /MRQ/; matching test; true/false test; open cloze test*

In terms of skills: practical exam; Objective Structured Clinical Examination /OSCE/; Mini-CEX (mini – clinical examination); completion of a given assignment; project, presentation.

With the possibility of using an e-learning platform (Moodle)

In terms of social competences:

A reflective essay; an extended observation by a supervisor/tutor; 360-degree assessment (feedback from teachers, peers, patients, other co-workers); self-assessment (portfolio included).

With the possibility of using an e-learning platform (Moodle)

Course content: (use keywords referring to the content of each class following the intended learning outcomes):

Lectures:

- Propedeutics of pediatrics - definition. Preventive tasks in pediatrics.
- Biological basics of child development.
- Development in the prenatal period.
- Teratogenic factors affecting the child's development.
- Determinants of child's development
- Allergic diseases in children – epidemiology and prevention
- Asthma in children
- Cystic fibrosis
- Joint pain in children
- Juvenile idiopathic arthritis
- Urinary tract infections in children and adolescents
- Nephrotic syndrome in children and adolescents
- Congenital anomalies of urinary tract
- Hypertension in children and adolescents
- General principles of cancerogenesis in children
- Epidemiology of childhood cancer
- Early symptoms of cancer in children
- Principles of treatment in pediatric cancer
- The role of GP in early diagnosis, treatment and follow-up of a child with cancer
- Methods of genetic diagnostic and its application in pediatric clinic
- Inflammatory bowel disease.
- Coeliac disease.
- Growth disorders in children
- Puberty disorders

Seminar:

- Physical development of the child in the neonatal period, infancy, early childhood, pre-school and school age - assessment methods, development norms.
- Psychomotor development of the child. Battered child syndrome.
- Newborn - morphological characteristics, physiological differences, assessment methods (Apgar scale), adaptation to

extra-uterine life and its disorders.

- Skin, subcutaneous tissue, bone and joint system of a child of different ages - anatomical and physiological differences. Thermoregulation. Dehydration features. Bone age and dental age. Vitamin D and its role. Rickets.
- Anatomical and physiological differences of the respiratory system in children of different ages. Breathing difficulty in newborns and infants.
- Anatomical and physiological features of the cardiovascular system in children: fetal circulation, postnatal changes. Assessment of cardiovascular system in children.
- The child's nervous system and its development. Neurological evaluation of newborns and infants. Reflex reactions. Meningeal signs.
- The anatomical and functional characteristics of the gastrointestinal tract in the newborn and infant. Problems connected to the immaturity of the gastrointestinal tract in newborns and infants.
- The child's urinary system and its development – age-dependent differences.
- Natural nutrition - the lactation process, the composition of breast milk, the advantages and principles of breastfeeding. Contraindications for breastfeeding.
- Artificial feeding of newborns. Feeding infants and children over one year of age.
- Hematopoietic system of the child. Blood cells production and its condition. Physiological anemia.
- Morphological and physiological features of premature newborn. The common problems among premature newborns and infants.
- Principles of screening tests for health problems in children.
- The most common childhood infectious diseases in children.
- Heart defects in children - methods of diagnosis
- Arrhythmias in children, electrocardiogram.
- Myocarditis, endocarditis and cardiomyopathies in children. Heart failure. Fainting – causes
- Causes of cough in children
- Pneumonia in children
- Systemic vasculitis in childhood
- Juvenile lupus erythematosus
- Principles of communication with children with cancer and their parents
- Supportive care in oncology
- Hematopoietic stem cell transplantation in children. Stem cells therapies in pediatrics – current opportunities and perspectives
- Functional disorders of gastrointestinal tract in children.
- Gastrointestinal bleeding: causes, symptoms, diagnosis, treatment.
- Evaluation and treatment of constipation in children.
- Diabetes mellitus type 1 in children.- pump therapy
- Diabetic ketoacidosis
- Screening tests in newborn

Laboratory class:

- Physical development of the child in the neonatal period, infancy, early childhood, pre-school and school age - assessment methods, development norms.
- Evaluation of the child's psychomotor development.
- Medical history and its importance in the process of diagnosing and treating of children.
- Physical examination of a healthy and sick child - standard variants with regard to age differences, pathological symptoms.
- Physical examination of the child, taking into account the anatomical and physiological distinctiveness of particular body system. Assessment of:
 - a. the child's general condition
 - b. skin and subcutaneous tissue, lymph nodes, muscle and bone and joint system
 - c. muscles, bones and joints
 - d. head and neck
 - e. respiratory system
 - f. circulatory system
 - g. abdominal cavity
 - h. genitourinary system

i. nervous system

- Morphological and physiological features of the full-term newborn. Adaptation to the extra-uterine life.
- Physical examination of a healthy and sick newborn.
- Morphological and physiological features of premature babies. Short- and long-term complications of the preterm infant
- The most frequent health problems in newborns and infants.
- Nutrition of newborns, infants and children above one year of age.
- Children's diseases resulting from deficiency of vitamins and minerals and their prevention.
- Vaccination schedule, adverse post-vaccination reactions
- Assessment of cardiovascular system in children
- Heart defects in children - methods of diagnosis
- Myocarditis, endocarditis and cardiomyopathies in children.
- Arrhythmias in children - electrocardiogram.
- Heart failure - symptoms. Cardio-vascular causes of fainting in children.
- The most common infectious diseases of childhood - case presentation
- Acute respiratory tract diseases
- Chronic respiratory tract diseases
- Functional testing of respiratory tract in children
- Differences in physical examination of the childhood musculoskeletal system in children
- Differential diagnosis of juvenile joint diseases
- Diagnosis and treatment of systemic vasculitis in children
- Diagnosis and management of systemic inflammatory diseases in childhood (juvenile lupus erythematosus, juvenile dermatomyositis, localized and systemic scleroderma)
- Congenital malformations of urinary tract. Urinary tract infections. Leukocyturia, hematuria, proteinuria.
- Glomerulopathies. Tubulopathies. Urolithiasis. Dysfunctional voiding.
- Acute and chronic renal failure. Renal replacement therapies
- Anemia in childhood
- Bleeding disorders
- Lymphadenopathy in children
- Leukemia and lymphoma
- Central nervous system tumors
- Solid tumors in children:
- Hematopoietic stem cell transplantation in children (HSCT).
- Life-threatening conditions in pediatric hematology and oncology.
- Diagnosis and management of toxicities related to immunosuppressive and anti-cancer treatment
- Differential diagnosis of acute and chronic abdominal pain.
- Gastrointestinal motility disorders.
- Gastroesophageal reflux and gastroesophageal reflux disease.
- Peptic ulcer disease and Helicobacter pylori infection in children.
- Clinical aspects of inflammatory bowel disease.
- Malabsorption syndromes and coeliac disease in clinical practice.
- Nutritional management of gastrointestinal disorders.
- Foreign bodies in gastrointestinal tract.
- Differential diagnosis of elevated liver function tests.
- Acute and chronic pancreatitis.
- Clinical overview of pediatric gastrointestinal emergencies (acute upper gastrointestinal bleeding, acute colonic bleeding, chemical burns of oesophagus).
- Accidental and intentional poisonings in children.
- Short stature diagnostic and treatment
- Obesity in children
- Congenital and acquired hypothyroidism in children.
- Hypo- and hyperparathyroidism and disturbances vitamin D metabolism disorders.
- Congenital adrenal hyperplasia and other adrenal disorders.
- Pheochromocytoma
- Diabetes mellitus type 1 and other diabetes in children

- Diagnostic criteria in diabetes mellitus type 1 and intensive insulin therapy.
- Ketoacidosis in diabetes mellitus type 1
- The metabolic control in diabetes mellitus type 1
- Distinctions in the neurological examination of the newborn and infant.
- Epilepsy in children and adolescents.
- Non-epileptic states in children - diagnostics, differentiation.
- Acute cerebrovascular disease in children.
- Headaches in children and adolescents.
- Cerebral palsy
- Mental retardation and behavioral disorders in children
- Neuroinfections in children - etiopathogenesis, symptoms and treatment

Obligatory literature:

1. Illustrated Textbook of Paediatrics, Lissauer T, Clayden G., 5th edition 2017
2. Nelson Essentials of Pediatrics, Karen Marcdante, and Robert M. Kliegman,
3. Oxford handbook of Pediatrics, Tasker R. 2013
4. <http://easymed.club/library/books/en/pediatrics/Oxford%20Handbook%20of%20Pediatrics,%202nd%20Edition.pdf>

Complementary literature:

1. Oxford handbook of Clinical Hematology, J. Prowan et al. 2011
2. Hematology of Infancy and Childhood, Nathan and Oski

Requirements for didactic aids (e.g. laboratory, multimedia projector, others...)

1. Multimedia projector,
2. copy equipment,
3. computer

Conditions for obtaining a credit for the subject:

Attendance all lectures, active participation in all classes and seminars, passed practical exam, passed final test exam

In the case of on-line classes, students receive a credit for attendance based on confirmed individual logging in to the e-learning platform and completion of assigned tasks.

Methods of evaluation:

Exams: practical exam

Comprehensive Final Exam : written exam with MCQ test

Grading scale: 2-5

In the case of classes carried on-line, with the consent of the head of the department and in agreement with the students, it is permissible to conduct the final exam using the e-learning platform.

Attendance: obligatory for all classes and lectures. One absence excused for important reason is permitted each semester. In the case of absences with excuse, (or more than one excused absences) content of classes the student missed shall be made up according to the schedule given by the teacher.

Tardiness: not allowed

Uniforms: casual medical suits. Wearing tidy lab coat and changing footwear are obligatory.

For safety reasons, health risk and care of the patients the following guidelines apply:

DO:

- Disinfect your hands before and after each patient
- Bring only necessary personal objects
- Switch of mobile phones
- Follow Infection Control Rules at the department

DO NOT:

- Wear jewellery: rings, bracelets, dangling necklaces or earrings.
- Chew gum
- Make personal calls
- Wear long nails or nail polish

Missed exams/Assignments/Make-up policy: Practical exam: individual arrangements with the teacher.

Theoretical test: If the student misses exam for justified reason, he may take it on the date of the first retake. If the student misses exam without certified excuse, he will be graded as "ndst".

The name and address of the department/clinic where the course is taught (module/course); contact details (phone number/ email address):

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Dean's signature

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