







		disorders and excretion in children;		
W 4	E.W6	- Knows the most common life-threatening in children, and the rules of conduct in these states		L, CC
U 01	(np. AU1)	The student - carries out medical history of the child and his family	Oral answer, test, presentation	L, CC
U 02	E.U4	performs a physical examination of the child at any age	Oral answer, test, presentation	L, CC
U 03	E.U6	- Carry out a hearing test indicative and field of vision and otoscopic examination ;	Oral answer, test, presentation	CC
U 04	E.U7	- Evaluates the general state of consciousness and awareness of the patient;	Oral answer, test, presentation	L, CC
U 05	E.U8	-estimates neonatal Apgar scale and assesses its maturity , examine neonatal reflexes ;	Oral answer, test, presentation	L, CC
U 06	E.U9	- Summarizes the anthropometric measurements and blood pressure data on grids percentile;	Oral answer, test, presentation	CC
U 07	E.U10	-assesses the progress of puberty;	Oral answer, test, presentation	L, CC
U 08	E.U11	researches balance sheet;	Oral answer, test, presentation	CC
U 09	E.U13	assesses and describes somatic and mental state of the patient:	Oral answer, test, presentation	L, CC
U 10	E.U14	states recognize the immediate danger of life;	Oral answer, test, presentation	L, CC
U 11	E.U24	- Interpret laboratory tests identify the reasons for deviations;	Oral answer, test, presentation	L, CC
U 12	E.U27	- Qualifies the patient for vaccination;	Oral answer, test, presentation	L, CC
U 13	E.U29a	-performs basic medical procedures and treatments, including a) measurement of body temperature, pulse measurement, non-invasive blood pressure measurement.	Oral answer, test, presentation	CC

\*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:  
communication of knowledge, skills or forming attitudes:



Knowledge: 5	
Skills: 4	
Social competences: 4	
Student's amount of work (balance of ECTS points)	
Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	100
2. Student's own work (self-study):	85,2
Total student's workload	185,2
ECTS points for module/course	6,5
Comments	
Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)	
<p><b>Lectures</b></p> <p><b>Winter semester</b></p> <p>1-2. Goals and tasks of pediatrics. Basic information on the history of pediatrics, general principles of the organization of pediatric healthcare. Impact of the environment on child development. Medical history.</p> <p>3-4. Physical examination and general semiotics. General condition assessment. Physique. Nutritional assessment. Skin examination.</p> <p>5-6. Physical examination and general semiotics. Head examination. Bone and muscular system. Morphological and functional distinctions. Posture defects.</p> <p>7-8. Physical examination and general semiotics. Chest. Defining boundaries and auscultation of the lungs and heart.</p> <p>9-10. Physical examination and general semiotics. Abdominal cavity. Genitourinary organs. The nervous system.</p> <p>11-12. Developmental periods. Intrauterine life period. Factors affecting fetal development. Neonatal period. Prematurity and other disorders of intrauterine development. Selected issues in genetics.</p> <p>13-14. Development periods. Infant, toddler, preschool and school periods. Puberty period.</p> <p><b>Summer semester</b></p> <p>1-2. Physical and mental development in developmental age. Methods for controlling physical and mental development. Mother and child care system, including the perinatal period. Hygiene and care of newborns, infants and children.</p> <p>3-4. Nutrition rules for infants and young children, older children. Eating disorders: obesity, anorexia, bulimia.</p> <p>5-6. Indications and contraindications for vaccination, types of vaccines. Active and passive immunization. Implementation of the mandatory vaccination schedule.</p> <p>7-8. Selected issues of prevention: rickets, vitamin D deficiency, posture defects, serological conflict.</p> <p>9-10. Semiotics. Life threatening conditions in pediatrics.</p> <p>11-12. Laboratory tests and their significance. Hospital infections.</p> <p>13-14. The problem of domestic violence. Battered child syndrome. Options for helping the family.</p>	



Addictions in developmental age. FAS Syndrome. Care for a chronically ill child. Analgesia in pediatrics.  
Hospice Care.

#### **Practical classes**

**Exercises conducted only by the 3rd Department and Clinic of Paediatrics, Immunology and Rheumatology of Developmental Age:**

**1. ABC of physical examination in pediatrics (Classes are held at the Center for Medical Simulation).**

#### **Department and Clinic of Neonatology**

**1. Assessment of the newborn's general condition (Apgar scale), methods of assessing the degree of maturity. Full-term newborn - physiology. Adaptation of a newborn baby to ectopic life. Newborn reflexes.**

**2. Newborn pathology: premature newborn; too small for fetal age; too large for fetal age; from multiple pregnancy. Perinatal injuries. Neonatal screening.**

#### **Exercises conducted by all clinics:**

#### **Winter semester**

1. Documentation in pediatrics - medical history, fever card, personal data protection in the light of applicable regulations. Organization and functioning of the baby and general pediatric ward.

2. Interview. General condition assessment. Assessment of consciousness (Glasgow scale), assessment of establishing verbal and logical contact.

3. Examination: of the skin and its appendages. Examination of peripheral lymph nodes. Semiotics of the most common diseases manifested by skin lesions and enlarged lymph nodes in children.

4. Head examination. Font size assessment. Assessment of the oral cavity and nasopharynx. Semiotics of ear, nose and mouth disorders. Tooth development. Neck examination, thyroid gland.

5. Examination of the musculoskeletal system. Skeletal system: the most common disorders in the structure of the spine (lordosis, kyphosis, scoliosis) and the chest, and lower limbs (valgus, clubbing). Posture rating. Assessment of active and passive mobility of joints. Hip joint examination. Assessment of the muscular system (muscle tone).

6. Chest. Physical examination of the lungs: watching, tapping, auscultation. Semiotics of the most common respiratory disorders: cough, shortness of breath, cyanosis.

7. Cardiovascular system examination; auscultation of heart tones and tapping the boundaries of the heart. Measurement of blood pressure and heart rate. Interpretation of results. Semiotics of the most common cardiovascular disorders. Physiological differences in the cardiovascular system in developmental age.

8. Principles of detailed examination of the abdominal cavity and urogenital system in children. Developmental differences of the genitourinary system. Semiotics of abdominal diseases in children: abdominal pain (acute, chronic), vomiting, diarrhea, constipation, free fluid in the peritoneal cavity, enlargement of parenchymal organs. Distinctions in kidney disease in children. Interpretation of basic laboratory test results.

9. Neurological examination, assessment of cranial nerves, meningeal symptoms, symptoms of increased intracranial pressure. Principles for testing deep (tendon) physiological reflexes. Semiotics of diseases of the nervous system.

10. A child of preschool and school age. Assessment of growth and development standards.



Measurement of blood pressure, measurement of heart rate, number of breaths. Using the percentile grid.  
Accurate assessment of physical development anomalies in subsequent stages of life.

11. Collecting personal interview and physical examination. Development of status praesens (trial version).

12. Independent collection of interviews and physical examination. Trial status overview. Development of status praesens (evaluation version).

#### **Summer semester**

**Exercises conducted only by the 3rd Department and Clinic of Paediatrics, Immunology and Rheumatology of Developmental Age:**

1. Social medicine: Organization of childcare (Orphanages, foster families, adoption). Balance sheet research, dispersion groups. Prevention of hereditary diseases. Addiction problem in developmental age. Eating disorders. Battered child. A child with FAS syndrome. Child molested. Hospice Care.

**1st Department and Clinic of Paediatrics, Allergology and Cardiology:**

**1. Development. Periods of child development: infant, small child, older child.**

**Exercises conducted by all clinics:**

**1st Department and Clinic of Paediatrics, Allergology and Cardiology**

**2nd Department and Clinic of Paediatrics, Gastroenterology and Nutrition**

**3rd Department and Clinic of Paediatrics, Immunology and Rheumatology of Developmental Age**

**Department and Clinic of Endocrinology and Diabetology of Developmental Age**

**Department and Clinic of Pediatric Nephrology**

**Department and Clinic of Pediatric Oncology, Haematology and Bone Marrow Transplantation**

1. Natural and artificial nutrition of infants. Basic differences in the composition of human and cow's milk. Contraindications to breastfeeding.

2. Nutrition for young and old children. Elimination diets. Rules for preparing meals.

3. Protective vaccinations. Vaccination schedule. Indication and contraindications for vaccination. Post-vaccination complications. Vaccination documentation.

4. Prevention in children (rickets, vitamin D3 supplementation, posture defects). Hospital infections.

Basic principles of their prevention.

5. Baby and young child care treatments. Bath, toilet, moisturizing the skin, preventing excessive overheating and cooling of the body.

6. Summary and consolidation of material from the whole year. Questions and answers on the clinical trial, interview, and issues discussed.

7. Completion of classes based on theoretical knowledge and practical skills.

Basic literature (list according to importance, no more than 3 items)

**Pediatric Physical Examination: An Illustrated Handbook** .By Karen Duderstadt

**Nelson Essentials of Pediatrics, With STUDENT CONSULT Online Access** By Karen Marcante, MD, Robert M. Kliegman, MD and Richard E. Behrman, MD

**Nelson Textbook of Pediatrics, 19th Edition**, By Robert M. Kliegman, MD, Bonita M.D. Stanton, MD, Joseph Geme, Nina Schor and Richard E. Behrman, MD

Additional literature and other materials (no more than 3 items)

1. Denis Gill, Niall O'Brien: A clinical trial in children. 2007.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

**multimedia projector, computer, patient rooms, centimeter, weight, height meter, percentile grids,**



**Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)

1. Knowledge of anatomy and physiology at least at a satisfactory level,
2. Preparation for classes according to plan from recommended textbooks,
3. Having the right outfit and changing shoes, having a stethoscope.

**Conditions to receive credit for the course** (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

**Final credit (for grade) in the form of obtaining:**

- **Positive evaluation of the winter and summer semester, a positive result of the final test, and 100% attendance.**

The final test consists of 10 questions; (very good - 10 correct answers; more than good - 9 correct answers; good - 8 correct answers; fairly good - 7 correct answers; satisfactory - 6 correct answers; unsatisfactory - less than 6 correct answers).

- **Completing the winter semester: a positive result with the *status praesens*, a positive result with 3 tests, oral responses, and 100% attendance.**

- **Completing the summer semester: positive result of 3 tests, oral responses, and 100% attendance.**

- **Attendance at all classes: in case of absence or non-admission to classes due to lack of student preparation - a negative result of the admission test, it is necessary to do the classes confirmed by the signature and stamp of the assistant conducting the class.**

- **It is necessary to make up for all absences from classes, including rector's days and dean's hours (in this case it is recommended to present or write a specific topic prepared by the student as part of self-study).**

<b>Grade:</b>	<b>Criteria</b> (only for courses/modules ending with an examination)
Very Good (5.0)	The correct answer to over 90% of questions asked, very good mastery of the methodology of subject and physical examination, full knowledge of the symptomatology of issues discussed during classes
Good Plus (4.5)	The correct answer to 80-90% of questions asked, almost complete mastery of the methodology of subjective and physical examination, good knowledge of the symptomatology of issues discussed during classes
Good (4.0)	The correct answer to 75-80% of questions asked, good mastery of the methodology of subjective and physical examination, good knowledge of the symptomatology of issues discussed during classes
Satisfactory Plus (3.5)	The correct answer to 70-80% of questions asked, mastery of the methodology of subjective and physical examination, knowledge of the symptomatology of issues discussed during classes
Satisfactory (3.0)	The correct answer to over 60% of questions asked, sufficient mastery of the methodology of the subjective and physical examination, sufficient



knowledge of the symptomatology of issues discussed during classes

Name and address of module/course teaching unit, contact: telephone and e-mail address

**3rd Department and Clinic of Paediatrics, Immunology and Rheumatology of Developmental Age**

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Coordinator / Person responsible for module/course, contact: telephone and e-mail address

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List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

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**Date of Syllabus development**

23.09.2019

**Syllabus developed by**  
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