



UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Medicine

Course syllabus – part A

USOS Code: 48SJO-PEDI14

ECTS: 5.00

Cycle: 2026

Pediatrics 1/4 Pediatrics 1/4

SUBJECT MATTER CONTENT:

Lecture – INTRODUCTION TO PAEDIATRICS 1. Introduction into the paediatrics. General terms related to the child care. Ethical issues in the paediatrics. Diagnostics guidelines and therapeutic standards in the modern paediatrics. [1H] 2. History taking and physical examination in pediatrics: principles of proper physical examination in pediatric patients. [1H] 3. Pediatric symptomatology / general semiotic in pediatrics and significance of chosen clinical signs and symptoms in children [2H] 4. Puberty – physiology and clinical features; major health-related problems in adolescent medicine [1H] 5. Child abuse and neglect (Maltreated child syndrome). Fetal Alcohol Syndrome (FAS) Attention deficit hyperactivity disorder-ADHD. [1H] 6. Major nutritional problems during growth: Undernutrition, childhood obesity; eating disorders (anorexia nervosa, bulimia nervosa).[2H] 7. Vitamin D – metabolism and clinical significance. Disturbances of the calcium and phosphorus homeostasis (rickets, osteoporosis) [1H] 8. Metabolic disorders. Metabolic screening of newborns [1H]

Seminar – 1.Classification of the newborn infants by birth weight and gestational age. Prematurity 2. Medical assessment of the newborn infant. Adaptation to the extrauterine life 3. Rules of newborn resuscitation. Preventive health care during neonatal period. 4. Respiratory and circulatory adaptation. Newborn laboratory standards 5. Physiology and pathology of the respiratory system and cardiovascular system. Neonatal screening, inborn errors of the metabolism 6. Head and neck examination including diagnosis of craniofacial pathology on children and young. 1. Fever in children. Pathogenesis, diagnostics and management. Dehydration. Fluid therapy [2H] 2. Vaccinations [2H] 3. Assessment of the physical development of the children. Growth disorders. Eating disorder [2H] 4. Nutrition in the first 1000 days [2H] 5. Psychomotor development, developmental milestones, red flags [2H]

Classes – INTRODUCTION TO PAEDIATRICS 1. Symptomatology of newborn and infant diseases. Physical examination of infants. 2. Medical history physiological and morphological features of the term babies. Adaptation to extra uterine life. Physiological jaundice, jaundice connected to breast feeding, pathological jaundice. 3. Breastfeeding and formula-feeding. Types of formulas. Vaccination protective . 4. Physical examination of children. History taking in pediatrics. Patient report Underweight in children. Assessment of the child development – history taking, physical examination. Case report. Physical examination of the children: general appearance. Case report – discussion. Examination of the head

Legal acts specifying learning outcomes:
467/2024;

Discipline: Medical Sciences

Course status: Obligatory

Group of courses: B - major course

ISCED Code: 0912

Field of studies: Medicine

Field: Medicine

Learning profile: -

Form of studies: full-time

Level of studies: uniform master's studies

Year/Semester: 3rd year, Medicine in English

Classes types: Lecture; Seminar; Classes;

Classes: Lecture (10h); Seminar (25h); Classes (50h);

Language: ANG

Introductory subject: Anatomy, Physiology, Pathology, Biochemistry, Histology with cytophysiology and embryology, Immunology, Microbiology, Laboratory diagnostics, Ethics.

Prerequisites: Knowledge of the subjects and introducing the ability to use it in the context of history taking, examination of the child and differential diagnosis, assessment of the physical and psychomotoric child's development in different age groups.

Organized by the unit:

Coordinators responsible for the course:

Elżbieta Jarocka-Cyrta,
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and neck, dysmorphs. Common symptoms: abdominal pain, vomiting in children-functional disorder or disease. Psychomotor development up to third year of life.

Additional notes:

TEACHING OBJECTIVE:

It is to get the student's knowledge on the efficient history taking, examination of the child and perform a differential diagnosis, assessment of the physical and psychomotoric child's development in different age groups, pre-treatment medical orders, develop a treatment plan.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY

Symbols for outcomes related to the discipline:

M/NMA_P7S_KO+++++, M/NMA_P7S_UW+++++,
+++++, M/NMA_P7S_WG+++++

Symbols for outcomes related to the field of study:

K.1.+, K.2.+, K.3.+, K.6.+, K.5+, K.7.+, K.8.+, K.9.+, K.10.+, K.11.+,
E.U2.+, E.U6.+, E.U7.+, E.U8.+, E.U10.+, E.U12.+, E.U13.+,
E.U15.+, E.U16.+, E.U18.+, E.U20.+, E.U21.+, E.U22.+, E.U29.+,
E.U34.+, F.U9.+, F.U10.+, E.W1.+, E.W2.+, E.W3.+, E.W4.+,
E.W5.+, E.W6.+, E.W39.+, E.W40.+, E.W41.+, F.W2.+, F.W9.+

LEARNING OUTCOMES:

Knowledge (W1) – Student knows and understands environmental and epidemiological conditions of the most frequent diseases;

Knowledge (W2) – Student knows and understands the rules of nutrition applicable to healthy and ill children, including natural feeding, preventive vaccinations, and the rules of the child's health evaluation;

Knowledge (W3) – Student knows and understands the causes, symptoms, rules of diagnosing, and the therapeutic procedures in the most frequent paediatric health problems: 1) rickets, tetany, convulsions, 2) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, heart arrhythmia, cardiac insufficiency, hypertension, fainting, 3) acute and chronic diseases of the upper and lower respiratory tract, congenital defects of the respiratory tract, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, nettle-rash, anaphylactic shock, angioedema, 4) anaemia, haemorrhagic diatheses, bone marrow failures, childhood malignancies, including solid tumours typical for childhood, 5) acute and chronic abdominal pains, vomiting, diarrheas, constipations, gastro-intestinal bleedings, ulcer, non-specific bowel diseases, pancreatitis, cholestasis and liver diseases, and other acquired illnesses and congenital defects of the digestive tract, 6) urinary tract infections, congenital defects of the urinary tract, nephrotic syndrome, kidney stones, acute and chronic kidney insufficiency, acute and chronic kidney inflammations, systemic kidney diseases, urination disorders, vesico-ureteral reflux disease, 7) growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty and gonad function disorders, 8) infant cerebral palsy, encephalomyelitis and meningitis, epilepsy, 9) the most frequent children's infectious diseases, 10) genetic syndromes, 11) connective tissue diseases, rheumatoid fever, juvenile arthritis, systemic lupus erythematosus, dermatomyositis;

Knowledge (W4) – Student knows and understands the problems of a maltreated and sexually abused child, mental retardation and behavioural disorders - psychoses, addictions, eating and expelling disorders in children;

Knowledge (W5) – Student knows and understands the basic diagnostic and therapeutic methods with respect to the foetus;

Knowledge (W6) –

Knowledge (W7) –

Knowledge (W8) –

Knowledge (W9) –

Knowledge (W10) –

Knowledge (W11) –

Skills (U1) – Student can explain the anatomical grounds of physical examination.

Skills (U2) – Student can use the anatomic, histological, and embryological nomenclature in speech and writing.

Skills (U3) – Student can take medical interview with a child and its family;

Skills (U4) – Student can conduct physical examination of a child of any age.;

Skills (U5) – Student can assess the condition of a new-born baby in the Apgar scale, its maturity, and examine its reflexes.

Skills (U6) – Student can analyse the anthropometric measurements and blood pressure against the percentile norm data.

Skills (U7) –

Skills (U8) – Student can qualify the patient for vaccinations.

Skills (U9) –

Skills (U10) –

Skills (U11) –

Skills (U12) –

Skills (U13) –

Skills (U14) –

Skills (U15) –

Skills (U16) –

Skills (U17) –

Social competences (K1) – Student is ready to establish and maintain deep and respectful contact with the patient and show understanding for ideological and cultural differences.

Social competences (K2) – Student is ready to be guided by the well-being of the patient.

Social competences (K3) – Student is ready to respects physician-patient privilege and patient's rights.

Social competences (K4) – The student is ready to take action towards a patient on the basis of ethical principles, with awareness of social determinants and limitations resulting from the disease

Social competences (K5) – Student is ready to recognize his own limitations and to make self-assessments of educational deficits and needs.

Social competences (K6) –

Social competences (K7) –

Social competences (K8) –

Social competences (K9) –

Social competences (K10) –

Symbols for outcomes related to the field of study:

Lecture – ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17'] – Multimedia presentation

Seminar – ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17'] – Multimedia presentation. Discussion.

Classes – ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17'] – Work in small groups, case analysis, history taking, physical examination

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Seminar (Part in the discussion) – ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17']
– Part in the discussion - Presence at all classes

Classes (Written test) – [] – Evaluation of group work and cooperation. During each exercise, the student is evaluated by the instructor - active participation in classes, preparation. During the classes every day there will be a test on the preparation for the exercises (the material covers the topics of the exercises, seminars based on the obligatory textbooks and lectures). The test consists of three written questions or three test questions (credit = correct answer on 2 questions).

Lecture (Part in the discussion) – ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17']
– Part in the discussion - Presence at all classes

Classes (Evaluation of the work and cooperation in the group)
– ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17'] – During each exercise the student is evaluated by the instructor (active participation in classes, preparation) 0 - 1 point.

Classes (Competention test) – ['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'W3', 'U4', 'W4', 'K4', 'K5', 'U5', 'W5', 'U6', 'W6', 'K6', 'W7', 'U7', 'K7', 'U8', 'W8', 'K8', 'W9', 'U9', 'K9', 'W10', 'U10', 'K10', 'W11', 'U11', 'U12', 'U13', 'U14', 'U15', 'U16', 'U17'] – Knowledge test in the field of seminars, lectures and exercises. The condition for taking the test is to obtain a total of 10 points on admission tickets and activity during classes in the summer semester. The test includes 50 questions. The condition for passing the practical part is obtaining more than 70% of points. If you fail the test, you will receive an oral exam. The final grade for the subject of Pediatrics in the third year is the test result according to the following scoring: ≤ 35 points - insufficient 36-38 points - satisfactory 39-41 points - a sufficient plus 42-44 points - good 45-47 points - good plus 48-50 points - very good

REQUIRED LITERATURE:

1. **Nelson Essentials of Pediatrics, 9th editionals of Pediatrics**
Marcdante K. Kliegman R.M.; Elsevier; 2022; Pages: ;
Tome: ;
2. **Illustrated Textbook of Paediatrics**
Lissauer T., Carrol W.; Elsevier; 2021; Pages: ; Tome: -;
3. **Current Diagnosis & Treatment Pediatric**
William W. Hay JR., Myron J. Levin., Robin R. Deterding.,
Mark J. Abzug; Lange Mc Graw Hill Education; 2018;
Pages: ; Tome: ;
4. **Nelson Essentials of Pediatrics**
Marcdante K. Kliegman R.M.; Saunders; 2011; Pages: ;
Tome: 6;
5. **Pediatric Physical Examination. An illustrated handbook**
Karen G. Duderstadt; Elsevier; -; Pages: -; Tome: -;
6. **Essential Clinical Skills in Pediatrics**
Anwar Qais Saadoon; Springer; -; Pages: -; Tome: -;
7. **Nelson Textbook of pediatrics, 21 edition**
Kliegman R., & Joseph St.Geme; Elsevier; 2021; Pages: ;
Tome: ;

COMPLIMENTARY LITERATURE:

1. **Pediatrica. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego**
Dobrzańska A., Ryżko J.; PZWL; 2014; Pages: ; Tome: -;
2. **Pediatrica**
Kawalec, Grenda, Ziółkowska; PZWL; 2013; Pages: ;
Tome: -;



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Detailed description of ECTS credits awarded - part B

USOS Code: 48SJO-PEDI14

ECTS: 5.00

Cycle: 2026

Pediatrics 1/4

Pediatrics 1/4

1. Contact hours with the academic teacher:

- participation in: Lecture	10 h
- participation in: Seminar	25 h
- participation in: Classes	50 h
- consultation	2 h
Total:	87 h

Independent work of a student:

- She/he learns required chapters of the books from the basis literature list and from additional sources of knowledge.	3.00 h
Total:	3.00 h

contact hours + independent work of a student Total: 90.00 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS

ECTS Points = 90.00 h : 25 h/ECTS = 5.00 ECTS

Average: 5.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher - 4.83 ECTS pts

- including the number of ECTS credits for hours of independent work of a student - 0.17 ECTS pts