Załącznik nr 5 do zarządzenia nr 189/2025

COURSE SPECIFICATION

Course code: 0912-7LEK-C-Pe

Course title in Polish: Pediatria
Course title in English: Pediatrics

1. Placement of the course within the study programme

1.1. Field of study	Medicine
1.2. Mode of study	Full-time
1.3. Level of study	Uniform Master's study
1.4. Profile of study	General academic
1.5. Course specification author	Lek.med Ilona Pałyga-Bysiecka
1.6. Contact	Ilona Pałyga <ilona.palyga-bysiecka@ujk.edu.pl>

2. Generał characteristics of the course

2.1. Language of instruction	English
2.2. Entry requirements	Students enrolling in the Pediatrics course are expected to have successfully completed the following subjects: anatomy, physiology, biochemistry, immunology, microbiology, and pathology.

3. Detailed characteristics of the course

3.1. Type of classes	**lectures, seminars, and practical classes.**
3.2. Place of course delivery	Lecture – Courses in the teaching rooms of UJK Classes and tutorials- Department of Clinical Paediatrics e-learning platform
3.3. Form of assessment	lectures – final oral and written exam classes, tutorials- credit with grade that includes: students abilities, attendance during classes, partial-test evaluation **Final exam** – includes a practical component, a written test, and an oral exam, conducted in the 6th year of studies
3.4. Teaching methods	Lecture format – conducted in university teaching rooms or online via the TEAMS platform Tutorial format – conducted in university teaching rooms, the Conference Room of the Department of Pediatric Surgery (ŚCP), or online via the TEAMS Practical classes – conducted at the bedside of patients in the wards of the Świętokrzyskie Center of Pediatrics (I and II Clinics of Pediatrics).
3.5.a. Basic reading list	1. Ilustrated Textbook of Paediatrics, Edited by T. Lissauer, G. Clayden, 2021 2. Oxford Handbook of Paediatrics, 2021 3. Materials from Lectures and Classes 4. Some chapters from: Nelson Essentials of Pediatrics, 10th Edition, 2024: Abigail Schuh & Robert Kliegman & Kelsey Ryan & Sarah Yale & Michelle Mitchell; Chapter 2, chapter 8:145-154; Chapter 16-24
3.5.b. Supplementary reading list	1. Ilustrated Textbook of Paediatrics, Edited by T. Lissauer, G. Clayden, 2021 2. Oxford Handbook of Paediatrics, 2021 3. Materials from Lectures and Classes 4. Some chapters from: Nelson Essentials of Pediatrics, 10th Edition, 2024: Abigail Schuh & Robert Kliegman & Kelsey Ryan & Sarah Yale & Michelle Mitchell; Chapter 2, chapter 8:145-154; Chapter 16-24

4. Objectives, content and learning outcomes

4.1. Course objectives (taking into account the form of classes)

Lectures (including e-learning)

C1. To acquire essential knowledge on child development, nutrition, and the morphological and physiological specificities of organs and systems at different developmental stages.

C2. To understand the theoretical foundations of diagnosis and management of pediatric diseases, including secondary symptoms.

C3. To discuss preventive pediatrics, including vaccination programs and health promotion in children and adolescents.

Classes (including e-learning)

C1. To develop problem-solving skills based on case presentations of pediatric patients.

C2. To train students in the interpretation of laboratory and imaging results in pediatrics.

C3. To enhance the ability to prepare and present differential diagnoses.

C4. To recognize the specific features of pediatric diseases compared to those in adults.

C5. To enhance clinical reasoning through analysis of pediatric case studies, including preliminary diagnosis, differential diagnosis, treatment planning, and prognosis.

C6. To foster appropriate professional attitudes: social (doctor–patient, doctor–team relations), ethical (in line with medical ethics), and legal (in accordance with regulations).

Practical Classes (bedside teaching)

C1. To acquire skills in taking a comprehensive pediatric history from patients and caregivers.

C2. To perform a systematic physical examination in infants, children, and adolescents.

C3. To apply theoretical knowledge to real clinical cases during ward rounds under supervision.

C4. To develop communication skills with children and their families in the hospital setting.

4.2. Course content (taking into count the form of classes)

Lectures

Semester 5

Lectures

1. Physical and motor development of children and adolescents; developmental stages of childhood with examples of abnormalities.

2. Psychological development of the child.

3. Diagnostic procedures in pediatrics.

4. Neonatal assessment after birth; maturity scoring systems; physical examination of the newborn.

5. Prematurity and low birth weight; neonatal jaundice.

6. Life-threatening conditions in children and principles of emergency management.

7. Child abuse and maltreatment; sexual exploitation.

Seminars

1.Pediatric history-taking and physical examination; general assessment; detailed examination including the semiology of diseases of individual systems.

2.Developmental assessment; growth charts and percentiles.

3.Preventive care in different pediatric age groups; well-child visits; assessment of pubertal development.

4.Screening tests in children.

5. Principles of nutrition in healthy and sick children, including breastfeeding; methods of nutritional assessment.

6. Pediatric cardiopulmonary resuscitation.

7. Neonatal resuscitation.

8. Congenital malformations.

4.3. Course learning outcomes

Course learning outcomes (code)	Upon completion of the course, the student	Alignment with programme learning outcomes
	in the area of knowledge knows and understands:	
W01	the basic principles of pharmacotherapy of diseases of the elderly;	E.W1
W02	the possibilities of modern cancer therapy including multimodal therapy, the prospects for cell and gene therapies and their adverse effects;	E.W2
W03	the principles of combination therapies in oncology, algorithms for diagnostic and therapeutic procedures in most common human cancers;	E.W3.
W04	indications for the implementation of monitoring therapy;	E.W4
W05	the most common life-threatening conditions in children and the rules of conduct in these state	E.W6.
W06	the characteristics of mental disorders and their treatment in children, youth and the elderly;	E.W19.
W07	the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases;	E.W37.
	in the area of skills knows how to:	
U01	Is able to make relations between anthropometric measurements and blood pressure with data in growth charts;	C.U4.
U02	Is able to conduct a review of medical history of the child and its family;	E.U2.
U03	Is able to perform physical examination of the child at any age	E.U4.
U04	Is able to assess patient's general condition, consciousness and awareness;	E.U7.
U05	Is able to assess the condition of a newborn according to a the Apgar scale and its maturity as well as examine neonatal reflexes;	E.U8.
U06	is able to make relations between anthropometric measurements and blood pressure with data in growth charts;	E.U9.
U07	Is able to assess the stage of puberty;	E.U10.
U08	is able to assess the patient's general condition, consciousness and awareness	E.U11.
U09	Is able to perform differential diagnosis of the most common diseases in adults and children;	E.U12.
U10	Is able to assess and describes the somatic and mental state of patients;	E.U13.
U11	Is able to recognize states of a direct threat to life;	E.U14.
U12	Is able to recognize when a patient is under the influence of alcohol, drugs and other addictive products;	E.U15.
U13	Is able to recognize states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease;	E.U16.
U14	Is able to conduct analysis of the potential side effects of each drug and the interaction between them;	E.U17.
U15	Is able to qualify the patient for home treatment and hospitalization;	E.U20.
U20	Is able to recognize states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease;	E.U21.
U21	Is able to interpret laboratory test results and identify the reasons for deviations;	E.U24.

U22	Is able to apply dietary treatment with the consideration of enteral and parenteral feeding;	E.U25.
U23	Is able to qualify the patient for vaccination;	E.U27.
U24	Is able to collect and secure samples of material used in laboratory diagnostics;	E.U.28.
U25	interpret descriptions of pharmaceutical medicines and critically assess advertising materials relating to medicines;	E.U29.
U26	Is able to assist when the following procedures and medical treatments are performed: 1) transfusions of blood and blood products, 2) drainage of the pleural cavity, 3) puncture of the pericardium, 4) puncture of the peritoneal cavity, 5) lumbar puncture, 6) needle biopsy, 7) epidermal tests, 8) intradermal and scarification tests and interpret their results;	E.U30.
U27	Is able too plan specialist consultations;	E.U32.
U28	Is able to monitor the status of a patient poisoned by chemical substances or drugs;	E.U34.
U29	Is able to evaluate decubitus and apply appropriate dressings;	E.U35.
U30	Is able to keep medical records of the patient;	E.U38.
U31	Is able to comply with the aseptic and antiseptic rules;	F.U3.

in the area of skills knows how to:

K01	establish and maintain deep and respectful contact with the patient and show understanding towards ideological and cultural differences;	H.S1.
K02	do what is right for the patient;	H.S2.
K03	respect medical confidentiality and patient's rights;	H.S3.
K04	take actions concerning the patient on the basis of ethical principles, being aware of social conditions and restrictions resulting from illness;	H.S4.
K05	recognize his/her own limitations and self-evaluate educational deficiencies and needs;	H.S5.
K06	promote healthy lifestyle;	H.S6.
K07	use reliable information sources;	H.S7.
K08	conclude on the basis of own surveys and observations;	H.S8.
K09	introduce rules of social conduct and teamwork to the group of specialists, including specialists form other medical professions also in the multicultural and multinational environment;	H.S9.
K10	give opinions concerning various aspects of professional activity;	H.S10.
K11	take responsibility for own decisions made during professional activities including own safety and safety of other people;	H.S11.

4.4. Assessment methods for learning outcomes

Assessment method (+/-)

Course learning outcomes (code)	Oral/written/ practical examination /other (specify)*	Test*	Project*	In-class activity*	Independent study*	Group work*	Other (specify)*

Type of classes

1: / 2:	L	S	…	L	S	…	L	S	…	L	S	…	L	S	…	L	S	…	L	S	…
W01-W07	+				+			+			+			+	+				+	+	
U01-U31					+			+				+		+	+			+			
K01-K11					+						+	+		+	+	+		+			

Annotation. 1: form of classes; 2: learning outcomes

4.5. Assessment criteria for learning outcomes

Type of classes:

LECTURE (L) (including classes conducted with the use of distance learning methods and techniques)

Grade	Assessment criteria
3,0	knowledge of each course contents at the level of 61%- 68%
3,5	knowledge of each course contents at the level of 69%- 76%
4,0	knowledge of each course contents at the level of 77%- 84%
4,5	knowledge of each course contents at the level of 85%-92%
5,0	knowledge of each course contents at the level of 93%-100%

Type of classes:

SEMINAR (S) (including classes conducted with the use of distance learning methods and techniques)

Grade	Assessment criteria
3,0	knowledge of each course contents at the level of 61%- 68%
3,5	knowledge of each course contents at the level of 69%-76%
4,0	knowledge of each course contents at the level of 77%- 84%
4,5	knowledge of each course contents at the level of 85%-92%
5,0	knowledge of each course contents at the level of 93%-100%

Type of classes:

OTHER (...) (including classes conducted with the use of distance learning methods and techniques)

Grade	Assessment criteria
3,0	knowledge of each course contents at the level of 61%- 68%
3,5	knowledge of each course contents at the level of 69%-76%
4,0	knowledge of each course contents at the level of 77%-84%
4,5	knowledge of each course contents at the level of 85%-92%
5,0	knowledge of each course contents at the level of 93%-100%

5. ECTS credit allocation – student workload

Category	Student workload (full-time mode)
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER (CONTACT HOURS)	**265**
Participation in lectures*	69
Participation in seminars/laboratories*	185
Other (specify) e.g. classes conducted with the use of distance learning methods and techniques*	11
INDEPENDENT STUDY (NON-CONTACT HOURS)	**135**
Preparation for lectures*	60
Preparation for seminars/laboratories*	75
Preparation for examination/test*	
Gathering materials for project, online research*	
Preparation of a multimedia presentation*	
Other (specify)*	
TOTAL HOURS	**400**
ECTS CREDITS for the course	**16**

*** delete as appropriate**

Approved for implementation (date and legible signatures of course instructors in the given academic year):

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