Załącznik nr 5 do zarządzenia nr 189/2025

COURSE SPECIFICATION

Course code: 0912.4.LEK.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. Ilona Pałyga-Bysiecka
1.6. Contact	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, classes and practical classes.**
3.2. Place of course delivery	Lecture – Courses in the teaching rooms of UJK Classes and practical classes- Department of Clinical Paediatrics e-learning platform
3.3. Form of assessment	lectures – final oral and written exam classes, practical classes- 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 **Classes** – 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

- **CO1.** To acquire essential knowledge on child development, nutrition, and the morphological and physiological specificities of organs and systems at different developmental stages.
- **CO2.** To understand the theoretical foundations of diagnosis and management of pediatric diseases, including secondary symptoms.
- **CO3.** To discuss preventive pediatrics, including vaccination programs and health promotion in children and adolescents.

Classes

- **CO1.** To develop problem-solving skills based on case presentations of pediatric patients.
- **CO2.** To train students in the interpretation of laboratory and imaging results in pediatrics.
- **CO3.** To enhance the ability to prepare and present differential diagnoses.
- **CO4.** To recognize the specific features of pediatric diseases compared to those in adults.
- **CO5.** To enhance clinical reasoning through analysis of pediatric case studies, including preliminary diagnosis, differential diagnosis, treatment planning, and prognosis.
- **CO6.** 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

- **CO1.** To acquire skills in taking a comprehensive pediatric history from patients and caregivers.
- **CO2.** To perform a systematic physical examination in infants, children, and adolescents.
- **CO3.** To apply theoretical knowledge to real clinical cases during ward rounds under supervision.
- **CO4.** To develop communication skills with children and their families in the hospital setting.

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

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

Classes

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.
9. Medical communication:

Ethical standards in the planning and implementation of the therapeutic process; methods of communicating with patients appropriate to the given situation—incorporating open and closed-ended questions, paraphrasing, clarification, internal and final summaries, signposting, and active listening—along with the application of verbal and non-verbal techniques. Adapting verbal communication to the patient's needs by using clear, accessible language and avoiding medical jargon; communicating in a foreign language at the B2+ level according to the Common European Framework of Reference for Languages (CEFR). Describing and critically evaluating one's own behavior and communication style. Identifying and analyzing challenging communication scenarios—such as crying, intense emotions, anxiety, interruptions, sensitive or awkward topics, silence, withdrawal, or aggressive and demanding behavior—and addressing them in a constructive manner. Establishing rapport with the patient and any accompanying persons to build an effective relationship (e.g., using the "4 Habits Model": Invest in the beginning, Demonstrate empathy, Elicit the patient's perspective, and Invest in the end).

Practical Classes

1. Performing morphometric measurements.
2. Taking medical history from a child and their family.
3. Performing physical examination of children at all ages.
4. Plotting anthropometric measurements on growth charts and assessing percentiles.
5. Assessing the stage of pubertal development.
6. Conducting preventive health check-ups (well-child examinations).
7. Applying principles of asepsis and antisepsis.
8. Performing basic resuscitation procedures using an automated external defibrillator (AED) and other emergency measures; providing first aid.
9. Performing basic medical procedures, including:

- Measurement of body temperature (surface and core), pulse assessment.
- Non-invasive blood pressure measurement.
- Monitoring of vital signs using a bedside monitor.
- Pulse oximetry.
- Insertion of an oropharyngeal airway.
- Intravenous, intramuscular, and subcutaneous injections; peripheral venous cannulation.
- Collection of peripheral venous blood, blood cultures, arterial blood, and capillary arterialized blood samples.

- Collection of nasal, throat, and skin swabs.
- Urinary bladder catheterization (male and female patients); gastric intubation; gastric lavage; enema.
- Standard resting electrocardiogram (ECG) with interpretation; electrical cardioversion and defibrillation.
- Simple dipstick tests and bedside blood glucose measurement

Semester 7

Lectures

1. Viral diseases in children.
2. Bacterial diseases in children. Sepsis and neuroinfections in children.
3. Symptomatology of infectious diseases in children: rashes, lymphadenopathy, febrile states.
4. Thyroid diseases, diabetes, obesity, and metabolic syndrome.
5. Growth disorders.

(including classes conducted with the use of distance learning methods and techniques - 8h)

1. TORCH infections and congenital infections.
2. Milestones of psychosomatic development.

Classes

1. Prevention of infectious diseases; organization of immunization programs in children: indications, contraindications, and adverse events (AEFI).
2. Pediatric parasitic diseases.
3. Rheumatic fever, scleroderma, systemic vasculitis.
4. Diseases of the adrenal cortex and medulla; disorders of sexual maturation and differentiation.
5. Monogenic disorders and chromosomal abnormalities. Genetic factors in the etiopathogenesis of diseases; diagnostic approaches. Neurocutaneous syndromes.

(including classes conducted with the use of distance learning methods and techniques - 3h)

1.

Practical classes

1. Applying practical skills acquired in previous semesters.
2. Performing morphometric measurements, analyzing morphograms, and recording karyotypes of genetic disorders.
3. Assessing eligibility of patients for vaccinations.
4. Completing and maintaining pediatric medical documentation.
5. Assisting in the following procedures:

- Transfusion of blood and blood products.
- Lumbar puncture

Semester 8

Lectures

1. Symptomatology and diagnostics of cardiovascular diseases in children.

2. Congenital and acquired heart defects; heart failure.

3. Juvenile idiopathic arthritis and spondyloarthropathies.

4. Disorders of energy metabolism, hyperlipidemias, lysosomal storage diseases; disorders of carbohydrate and amino acid metabolism.

5. Solid tumors in children.

6. Headaches, demyelinating diseases, polyneuropathies, neuromuscular disorders.

(including classes conducted with the use of distance learning methods and techniques – 5h)

1. Diagnostic procedures in urinary tract diseases; symptomatology and diagnostics of central nervous system disorders.

2. Tubulopathies; urolithiasis; acute and chronic renal failure.

3. Postnatal circulatory changes and pulmonary hypertension.

Classes

1. Cardiomyopathies in children.

2. Syncope in children – differential causes.

3. Cardiac arrhythmias; arterial hypertension.

4. Urinary tract infections; glomerulonephritis, nephrotic syndrome.

5. Emergencies in pediatric gastroenterology.

6. Febrile seizures; epilepsy – symptoms and management; pediatric epilepsy syndromes; cerebral palsy.

(including classes conducted with the use of distance learning methods and techniques - 2h)

1.

Practical Classes

1. Applying practical skills acquired in previous semesters.

2. Assisting in the following medical procedures:

- Pericardiocentesis.

Semester 9

Lectures

1. Abdominal pain and functional disorders; acute and chronic diarrhea in children.

2. Symptomatology and diagnostics of gastrointestinal diseases; inflammatory bowel diseases.

3. Anemia; coagulation disorders and thrombocytopenia.

4. Mechanisms of allergic diseases; pediatric allergic conditions.

5. Symptomatology and diagnostics of respiratory diseases.

(including classes conducted with the use of distance learning methods and techniques – 4h)

1. Prenatal diagnostics; pediatric organ transplantation; calcium-phosphate metabolism disorders.

Classes

1. Celiac disease and other enteropathies; gastroesophageal reflux disease.
2. Childhood leukemias
3. Bronchial asthma; anaphylaxis in children – causes and management.
4. Cystic fibrosis and other chronic respiratory diseases.

Practical Classes

1. Applying practical skills acquired in previous semesters.
2. Performing spirometry, oxygen therapy, assisted and mechanical ventilation.
3. Assisting in the following procedures:

- Pleural drainage.
- Peritoneal puncture.
- Skin prick testing.
- Intradermal and scarification tests, with interpretation of results.

Semester 10

Lectures

1. Liver and pancreatic diseases.
2. Neutropenia, lymphadenopathy, splenomegaly, febrile states.
3. Immunodeficiencies in children.
4. Pneumonia.
5. Psychiatric disorders in children: autism, hyperactivity, behavioral and mood disorders. Eating disorders: anorexia nervosa, bulimia, feeding disorders.

Classes

1. Lymphomas in children.
2. Rhinitis and sinusitis.
3. Otitis, hearing loss, laryngitis, and pharyngitis.
4. Constipation and intestinal motility disorders; nutritional therapy and elimination diets

Practical Classes

1. Applying practical skills acquired in previous semesters.
2. Assisting in the following procedure: Fine-needle aspiration biopsy.

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	Principles of nutrition for a healthy child, obesity prevention, and dietary modifications due to diseases;	E.W1.
W02	Principles of prevention of diseases in children, including screening tests, wellness exams, and protective vaccinations;	E.W2.
W03	Environmental and epidemiological factors, causes, symptoms, principles of diagnosis, and therapeutic management for the most common diseases in children and their complications: 1. Rickets, tetany, disturbances in water-electrolyte and acid-base balance; 2. Heart defects, myocarditis, endocarditis, pericarditis, cardiomyopathies, arrhythmias, heart failure, arterial hypertension, pulmonary hypertension, syncope; 3. Respiratory system diseases and allergies, including congenital respiratory system defects, bronchiectasis, respiratory infections, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, atopic dermatitis, anaphylactic shock, angioedema; 4. Anemia, bleeding disorders, bone marrow failure, childhood cancers, including typical solid tumors of childhood, primary and secondary immunodeficiencies; 5. Acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic disorders, cholestasis, liver diseases, food allergies, congenital gastrointestinal defects; 6. Acute kidney injury, chronic kidney disease, urinary tract infections, urinary disorders, congenital urinary system defects, vesicoureteral reflux disease, kidney stones, glomerular diseases, tubulointerstitial diseases (tubulopathies, renal tubular acidosis), genetically determined kidney diseases, renovascular hypertension; 7. Growth disorders, thyroid and parathyroid diseases, adrenal gland disorders, diabetes, obesity, puberty disorders, gonadal function disorders; 8. Cerebral palsy, encephalitis, meningitis, seizures, epilepsy; 9. The most common infectious diseases in childhood; 10. Systemic connective tissue diseases, including juvenile idiopathic arthritis, systemic lupus erythematosus, dermatomyositis, systemic vasculitis, and other causes of musculoskeletal pain (non-inflammatory, infectious and reactive arthritis, and juvenile spondyloarthropathies).	E.W3.
W04	Issues of maltreated and sexually abused children, intellectual disability, and behavioral disorders, psychoses, addictions, autism spectrum disorders, eating and elimination disorders in children;	E.W4.
W05	Issues of intellectual disability, behavioral disorders, psychosis, addictions, autism spectrum disorders, and eating and excretion disorders in children;	E.W5.
W06	Specifics of mental disorders and their treatment in children, including adolescents, and the elderly;	E.W20.

W07	Causes, symptoms, principles of diagnosing and therapeutic management in the most common genetically determined diseases in children and adults;	E.W36.
W08	Environmental and epidemiological determinants, causes, symptoms, principles of diagnosing and therapeutic management in the most common diseases in general practice;	E.W37.

in the area of skills knows how to:

U01	Determine genetic risk based on pedigree and genetic test results in the case of chromosomal aberrations, genomic rearrangements, single-gene and multifactorial diseases;	C.U4.
U02	Collect a medical history from a child and their caregivers, using skills related to content, process, and perception of communication, considering both biomedical and patient perspectives;	E.U2.
U03	Collect a medical history in a health and life-threatening situation using the SAMPLE scheme (S – Symptoms, A – Allergies, M – Medications, P – Past medical history, L – Last meal, E – Events prior to injury/illness);	E.U3.
U04	Conduct a comprehensive and targeted physical examination of a child from the neonatal period to adolescence adapted to a specific clinical situation, including: 1. General pediatric examination; 2. Neurological examination; 3. Musculoskeletal system examination; 4. Ophthalmological examination; 5. Otolaryngological (ENT) examination;	E.U6.
U05	Conduct a psychiatric examination of a patient and assess their mental state;	E.U7.
U06	Conduct health check-ups, including compiling anthropometric measurements and blood pressure data with percentile charts and assessing the degree of maturation;	E.U8.
U07	Identify the most common symptoms of disease in children, apply diagnostic tests and interpret their results, conduct differential diagnosis, implement therapy, monitor treatment effects, and assess indications for specialist consultation, particularly in the case of symptoms such as: 1. Fever; 2. Cough and expectoration; 3. Shortness of breath; 4. Nasal and aural discharge; 5. Urinary disorders; 6. Rash; 7. Anemia; 8. Eating disorders; 9. Growth disturbances; 10. Seizures and consciousness disorders; 11. Heart palpitations; 12. Fainting; 13. Musculoskeletal pain; 14. Swelling; 15. Lymphadenopathy; 16. Abdominal pain; 17. Constipation and diarrhea; 18. Presence of blood in stool; 19. Dehydration; 20. Jaundice;	E.U10.

	21. Cyanosis; 22. Headache; Red eye syndrome	
U08	Recognize symptoms of addiction and propose appropriate medical management;	E.U11.
U09	Identify conditions requiring hospital treatment;	E.U12.
U10	Qualify patients for protective vaccinations;	E.U13.
U11	Perform medical procedures and treatments, including: 1. Measurement and assessment of basic life functions (temperature, pulse, blood pressure) and monitoring them using a cardiac monitor and pulse oximeter; 2. Various forms of inhalation therapy and selecting an inhaler appropriate for the patient's clinical condition; 3. Measurement of peak expiratory flow; 4. Oxygen therapy using non-invasive methods; 5. Instrumental and non-instrumental airway clearance 6. Intravenous, intramuscular, and subcutaneous drug administration; 7. Collection and securing of blood for laboratory and microbiological testing; 8. Collection of arterial and arterialized capillary blood; 9. Collection of swabs for microbiological and cytological examinations; 10. Urinary catheterization in both females and males; 11. Placement of a nasogastric tube; 12. Administration of an enema; 13. Performing a standard resting electrocardiogram and interpreting its results; 14. Defibrillation, electrical cardioversion, and external pacing; 15. Strip tests, including measuring glucose levels using a glucometer; 16. Pleural procedures: thoracentesis and pneumothorax decompression; 17. Anterior nasal packing; 18. Ultrasound examination in life-threatening situations according to the FAST protocol (Focused Assessment with Sonography in Trauma) or its equivalent, and interpreting its results;	E.U14.
U12	Use of appropriate personal protective equipment according to the clinical situation;	E.U15.
U13	Pronounce patient death;	E.U16.
U14	Maintain patient medical records, including electronic formats, in compliance with legal regulations;	E.U18.
U15	Conduct patient health education, including nutritional education tailored to individual needs;	E.U21.
U16	Apply rational antibiotic therapy depending on the patient's clinical condition;	E.U22.
U17	Collect patient history with a focus on the presence of suicidal thoughts, when it is justified;	E.U24.
U18	Communicate information to patients, tailoring the amount and content to the patient's needs and capabilities, and supplement verbal information with models and written materials, including diagrams and instructions, and apply them appropriately;	E.U25.
U19	Communicate with patients from economically or socially marginalized groups, respecting their dignity;	E.U27.
U20	Identify social determinants of health, indicators of unhealthy and self-destructive behaviors, discuss these with the patient, and make a note in the medical documentation;	E.U28.

U21	Identify potential indicators of violence, collect history to verify if there is a risk of the patient experiencing violence, and make a note in the medical documentation;	E.U29.
U22	Apply principles of providing feedback (constructive, non-judgmental, descriptive) within team collaboration;	E.U30.
U23	Accept, clarify, and analyze one's own role and scope of responsibility in the team, and recognize one's role as a doctor in the team;	E.U31.
U24	Obtain information from team members respecting their diverse opinions and specialized competencies, and incorporate this information into the patient's diagnostic and therapeutic plan;	E.U32.
U25	The following protocols should be applied (e.g., during the handover of patient care, ordering a patient consultation, or providing one): 1. ATMIST (A (Age), T (Time of injury), M (Mechanism of injury), I (Injury suspected), S (Symptoms/Signs), T (Treatment/Time to arrival)); 2. RSVP/ISBAR (R (Reason for the call), S (Story of the patient), V (Vital signs), P (Plan for the patient)/I (Introduction), S (Situation), B (Background), A (Assessment), R (Recommendation))."	E.U34.
U26	Perform basic resuscitation procedures (Basic Life Support, BLS) in newborns and children, in accordance with the guidelines of the European Resuscitation Council (ERC);	F.U9.
U27	Conduct advanced resuscitation procedures for newborns (Newborn Life Support, NLS) and children (Pediatric Advanced Life Support, PALS), in accordance with ERC guidelines;	F.U10.

in the area of social competences is able to:

K01	Establish and maintain deep and respectful contact with the patient and show understanding towards ideological and cultural differences;	K.S1.
K02	Do what is right for the patient;	K.S2.
K03	Respect medical confidentiality and patient's rights;	K.S3.
K04	Take actions concerning the patient on the basis of ethical principles, being aware of social conditions and restrictions resulting from illness;	K.S4.
K05	Recognize his/her own limitations and self-evaluate educational deficiencies and needs;	K.S5.
K06	Promote healthy lifestyle;	K.S6.
K07	Use reliable information sources;	K.S7.
K08	Conclude on the basis of own surveys and observations;	K.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;	K.S9.
K10	Give opinions concerning various aspects of professional activity;	K.S10.
K11	Take responsibility for own decisions made during professional activities including own safety and safety of other people.	K.S11.

4.4. Assessment methods for learning outcomes

Assessment method (+/-)

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

Type of classes

1: / 2:	L	C	PC	L	C	PC	L	C	PC	L	C	PC	L	C	PC	L	C	PC	L	C	PC
W01-W08	+				+			+			+			+	+				+	+	
U01-U27					+			+				+		+	+			+			
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:

CLASSES (C) (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:

PRACTICAL CLASSES (PC) (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% The student has acquired basic skills but requires constant supervision and prompting from the Instructor. Demonstrates proper ethical conduct in relations with the patient and their Caregiver. The student is able to conduct the medical interview independently, but during the physical examination requires guidance from the Instructor.
3,5	knowledge of each course contents at the level of 69%-76% Independently solves basic diagnostic and therapeutic tasks.

	Can differentiate basic clinical entities. Requires the Instructor's assistance when performing practical skills. Demonstrates proper ethical conduct in relations with the patient and their Caregiver.
4,0	knowledge of each course contents at the level of 77%-84% The student is able to conduct the medical interview and physical examination independently, with a detailed description of the somatic condition. Independently solves basic diagnostic and therapeutic tasks. Differentiates basic clinical entities. Performs practical skills independently. Demonstrates proper ethical conduct in relations with the patient, their Caregiver, and Staff.
4,5	knowledge of each course contents at the level of 85%-92% The student is able to conduct the medical interview and physical examination independently, with a detailed description of the somatic condition. Independently solves both basic and complex diagnostic and therapeutic tasks. Differentiates clinical entities. Performs practical skills independently. Demonstrates proper ethical conduct in relations with the patient, their Caregiver, and Staff.
5,0	knowledge of each course contents at the level of 93%-100% The student is able to conduct the medical interview and physical examination independently, with a detailed description of the somatic condition. Independently solves complex and difficult diagnostic and therapeutic tasks. Differentiates clinical entities. Performs practical skills independently. Demonstrates impeccable ethical conduct in relations with the patient, their Caregiver, and Staff. Demonstrates impeccable clinical culture and teamwork skills.

5. ECTS credit allocation – student workload

Category	Student workload (full-time mode)	Student workload (part-time mode)
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER (CONTACT HOURS)	**260**	
Participation in lectures*	58	
Participation in seminars/laboratories*	180	
Other (specify) - classes conducted with the use of distance learning methods and techniques*	22	
INDEPENDENT STUDY (NON-CONTACT HOURS)	**140**	
Preparation for lectures*	80	
Preparation for seminars/laboratories*	60	
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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