Załącznik nr 5 do zarządzenia nr 189/2025

COURSE SPECIFICATION

Course code: 0912-7LEK-C-IM
Course title in Polish: Choroby wewnętrzne- kliniczne nauczanie praktyczne.
Course title in English: Internal medicine – clinical teaching and practice.

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 Masters' study
1.4. Profile of study	General academic
1.5. Course specification author	Prof. dr hab. med. Zbigniew Siudak
1.6. Contact	zbigniew.siudak@ujk.edu.pl

2. Generał characteristics of the course

2.1. Language of instruction	English
2.2. Entry requirements	Completion of all forms of Internal Medicine course (5th – 10th semester)

3. Detailed characteristics of the course

3.1. Type of classes	Practical classes
3.2. Place of course delivery	Hospitals, out-patient departments
3.3. Form of assessment	Semester XI Credit with grade and assessment of practical skills (oral) Median final grade based on all grades Final exam with grade after completing "Internal medicine - clinical teaching and practice" after semester XI (test, oral)
3.4. Teaching methods	Practical classes
3.5.a. Basic reading list	1. Harrison's Principles of Internal Medicine, Vol. 1 & Vol. 2; 22nd Edition. Authors: Longo, Dan; Fauci, Anthony; Jameson, J.; Hauser, Stephen; Kasper, Dennis; Loscalzo, Joseph;
3.5.b. Supplementary reading list	1. Bates' Guide to Physical Examination and History-Taking by Lynn Bickley, Wolters Kluwer Health 2023 2. Podstawy badania klinicznego / Basics and Clinical Examination. Piotr Zaborowski. Medipage 2016 3. ESC clinical practice guidelines published at https://www.escardio.org/Guidelines

4. Objectives, content and learning outcomes

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

Practical Classes

C01 Consolidation of practical skills in conducting medical history taking, physical examination, recognition of symptomatology of internal diseases, and performing basic diagnostic procedures in compliance with legal regulations.

C02 Consolidation of skills in assessing indications and contraindications for individual stages of the diagnostic and therapeutic process, including drug interactions.
C03 Improvement of skills in performing and interpreting basic diagnostic tests (blood glucose measurement, electrocardiography, spirometry, urine dipstick tests, blood gas analysis, swab collection, measurement of surface and core body temperature, and blood pressure measurement).
C04 Improvement of skills in conducting both general and focused medical history taking with the patient and their family in the context of internal medicine.

Course content (taking into count the form of classes)

Application of previously acquired knowledge and skills in internal medicine during clinical classes:

1. Conducting a medical interview.
2. Performing a focused physical examination.
3. Differential diagnosis.
4. Planning diagnostic and therapeutic management.
5. Measurement of body temperature, respiratory rate, pulse, and blood pressure.
6. Monitoring of vital parameters using a cardiac monitor and pulse oximeter.
7. Administration of medications via intravenous, intramuscular, and subcutaneous routes; peripheral vein cannulation; collection of blood cultures, arterial blood sampling, and arterialized capillary blood sampling; collection of nasal, throat, and skin swabs; pleural puncture.
8. Maintaining medical records (with particular emphasis on electronic health records).
9. Case study analysis.

4.2. Course learning outcomes

Course learning outcomes (code)	Upon completion of the course, the student	Alignment with programme learning outcomes
in the area of **ABILITIES**, the graduate knows how to:		
U01	conduct a review of medical history of the adult patient;	E.U1.
U02	conduct full and targeted physical examination of the adult patient;	E.U3
U03	assess patient's general condition, consciousness and awareness	E.U7
U04	perform differential diagnosis of the most common diseases in adults and children;	E.U12
U05	assess and describes the somatic and mental state of patients;	E.U13
U06	recognize states of a direct threat to life;	E.U14
U07	recognize when a patient is under the influence of alcohol, drugs and other addictive products	E.U15
U08	plan diagnostic, therapeutic and preventive procedures;	E.U16
U09	conduct analysis of the potential side effects of each drug and the interaction between them;	E.U17

U10	propose individualization of existing guidelines and other therapeutic treatments in the case of non-effectiveness of or contraindications to standard therapy;	E.U18
U11	recognize signs of drug dependency and propose a treatment procedure;	E.U19
U12	qualify the patient for home treatment and hospitalization;	E.U20
U13	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
U14	interpret laboratory test results and identify the reasons for deviations;	E.U24
U15	apply dietary treatment with the consideration of enteral and parenteral feeding	E.U25
U16	plan treatment in the case of exposure to infection transmitted through blood;	E.U26
U17	collect and secure samples of material used in laboratory diagnostics;	E.U28
U18	perform basic medical procedures and treatments, including: 1) measurement of body temperature, pulse measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs using a cardio-monitor or pulse oximetry, 3) spirometry, oxygen therapy, assisted and control mode ventilation 4) introduction of the oropharyngeal tube, 5) intravenous injection , intramuscular and subcutaneous injections, cannulation of peripheral veins, collection of peripheral venous blood, collection of arterial blood, collection arterialized capillary blood, 6) collecting swabs from the nose, throat and skin, puncture of pleural cavity, 7) catheterization of the urinary bladder in women and me, nasogastric intubation, gastric lavage, enema, 8) standard electrocardiogram along with its interpretation, cardioversion and defibrillation of the heart, 9) simple test strips and measuring the concentration of glucose in the blood;	E.U29
U19	implement the basic therapeutic procedure in acute poisoning	E.U33
U20	monitor the status of a patient poisoned by chemical substances or drugs;	E.U34
U21	recognize the agony of the patient and pronounce him/her dead;	E.U37
U22	keep medical records of the patient;	E.U38
U23	comply with the aseptic and antiseptic rules;	F.U3
U24	use peripheral venous catheter;	F.U5
U25	examine nipples, lymph nodes, thyroid gland and the abdominal cavity in terms of acute abdomen and perform finger test through the anus;	F.U6
U26	perform basic resuscitation with automated external defibrillator and other rescue activities and provide first aid;	F.U10
U27	Is capable of acting in a manner that ensures the avoidance of medical errors.	G.U8
U28	Is capable of collecting blood samples for toxicological testing and securing specimens for hemogenetic analysis.	G.U9

in the area of social competences:

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,	H.S9.

	including specialists form other medical professions also in the multicultural and multinational environment;	
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.

4.3. 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 (specify)*

Type of classes

1: / 2:	L	S	CP	L	S	PC	L	S	PC	L	S	PC	L	S	PC	L	S	PC	L	S	PC
U01-U28												X			X			X			
K01-K11												X			X			X			

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

4.4. Assessment criteria for learning outcomes

Type of classes:

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

Grade	Assessment criteria
3,0	Independently conducts focused patient interviews but requires instructor assistance during physical examinations. Provides an imprecise description of the patient's somatic condition and is able to solve basic diagnostic and therapeutic tasks independently. However, when performing practical skills, requires guidance from the instructor. Demonstrates appropriate ethical conduct in interactions with patients but experiences difficulties in establishing effective relationships within the therapeutic team. The decisions made indicate limited knowledge of legal regulations.
3,5	Independently conducts focused patient interviews and requires only minimal assistance from the instructor during physical examinations. Provides a precise description of the patient's somatic condition and is able to solve basic diagnostic and therapeutic tasks independently, including differentiating between common clinical conditions. However, when performing practical skills, requires guidance from the instructor. Demonstrates appropriate ethical conduct in interactions with patients but experiences difficulties in establishing effective relationships within the therapeutic team. The decisions made indicate gaps in the knowledge of legal regulations.
4,0	Independently conducts focused patient interviews and physical examinations, providing a precise description of the patient's somatic condition. Effectively solves basic diagnostic and therapeutic tasks and is capable of differentiating between common clinical conditions. Performs practical skills independently and demonstrates appropriate ethical conduct in interactions with both patients and medical staff. However, the decisions made indicate gaps in the knowledge of legal regulations.
4,5	Independently conducts focused patient interviews and physical examinations, providing a precise description of the patient's somatic condition. Demonstrates the ability to independently solve both basic and complex diagnostic and therapeutic tasks and is capable of differentiating between various clinical conditions. Performs practical skills independently and consistently demonstrates appropriate ethical conduct in interactions with both patients and medical staff. The decisions

	made confirm a solid understanding of relevant legal regulations.
5,0	Independently conducts focused patient interviews and physical examinations, providing a precise and accurate description of the patient's somatic condition. Demonstrates the ability to independently solve complex and challenging diagnostic and therapeutic tasks and is proficient in differentiating between various clinical conditions. Performs practical skills independently and consistently demonstrates impeccable ethical conduct in interactions with both patients and medical staff. The decisions made confirm a thorough understanding of relevant legal regulations.

5. ECTS credit allocation – student workload

Category	Student workload (full-time mode)
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER (CONTACT HOURS)	**240**
Participation in lectures*	
Participation in seminars/laboratories*	240
Other (specify) e.g. classes conducted with the use of distance learning methods and techniques*	
INDEPENDENT STUDY (NON-CONTACT HOURS)	**160**
Preparation for lectures*	
Preparation for seminars/laboratories*	160
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**

4* delete as appropriate

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

……