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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYNFaculty of Medicine |
|  | **Course sylabus – part A** |
| **48SJ-INM28** | **INTERNAL MEDICINE 2/8** |
| **ECTS: 4.00**  |  |
| **CYCLE: 2023L** |  |

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| **SUBJECT MATTER CONTENT****LECTURE**1.Symptoms and signs in cardiovascular medicine 2.Clinical symptomatology of the hematological diseases. 3.Ascites. Symptoms and signs in renal disorders 4.Clinical signs and symptoms in respiratory system diseases. Part 1. 5.Clinical signs and symptoms in respiratory system diseases. Part 2 6.Clinical signs and symptoms in endocrine and metabolism system diseases. 7.Neurological disturbances in internal medicine.**SEMINAR**1. Headaches, vertigo, impaired balance, sense organs disorders- when and whom to ask for advice? 2. Consciousness disturbances 3. Dyspnea and cyanosis 4. Chest pain. What to do after history taking and physical examination? 5. Abnormal ECG 6. Colic, ‘acute abdomen’, abdominal pain – who and when should be asked for consultation. 7. How to proceed with patient with fever. 8. Anaemias; haemostatic, thrombotic and myeloproliferative disorders – the basics 9. Joint pains, arthralgias. Disorders of musculosceletal system. 10. Water balance disturbances**CLASSES**1.Patient with sensual and consciousness disorders 2.Patient with valvular heart disease; acute coronary syndrome, chronic and acute heart failure. 3. Patient with chest pain, dysponoe, hemoptysis 4.Patient with asthma, COPD, pneumonia. 5. Patient with abdominal tumor and peritonitis signs. 6.Differential diagnosis of fever 7.Generalized and localized edema. Oliguria and anuria. 8.Patient with hepatosplenomegaly and lymphadenopathy. 9.Patient with inflammatory and degenerative pathologies of musculoskeletal system 10. Overview of history taking, physical assessment and differential diagnosis in internal medicine.**TEACHING OBJECTIVE**The ability to recognize symptoms in internal diseases, the ability to collect medical history and physical examination**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**:

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| **Symbols for outcomes related to the discipline:** | M/NM+++ |
| **Symbols for outcomes related to the field of study:**  | M/NM\_E.W1.+, E.U38.+, E.U7.+, M/NM\_E.W7.+, K.4.+, E.U14.+, K.5.+, K.1.+, M/NM\_D.W17.+, K.3.+, E.U3.+, E.U1.+, K.2.+, E.U13.+, M/NM\_D.W6.+ |

**LEARNING OUTCOMES:** **Knowledge:**

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| W1 – The student knows and understand environmental and epidemiological conditions of the most frequent diseases |
| W2 – The student knows and understand the significance of verbal and non-verbal communication in the process of communicating with the patient, and the notion of trust in interaction with the patient |
| W3 – The student knows and understand the patient’s rights |
| W4 – The student knows and understand the causes, symptoms, principles of diagnosing and treating the most frequently encountered internal diseases of adults and their complications: 1) cardiovascular diseases, including ischemic heart disease, heart defects, diseases of the endocardium, myocardium, and pericardium, heart insufficiency (acute and chronic), arterial and venous diseases, hypertension – primary and secondary, pulmonary hypertension, 2) respiratory diseases, including airways diseases, chronic obstructive pulmonary disease, bronchial asthma, bronchiectasis, cystic fibrosis, respiratory tract infections, interstitial respiratory diseases, pleural diseases, mediastinum diseases, obstructive sleep apnoea, respiratory distress (acute and chronic), bronchogenic carcinomas, 3) gastrointestinal diseases, including oral diseases, oesophageal diseases, stomach and duodenal diseases, intestinal diseases, pancreatic diseases, liver diseases, biliary tract and gallbladder diseases, 4) endocrine system diseases, including the hypothalamus and pituitary gland diseases, thyroid and parathyroid diseases, adrenal cortex and medulla diseases, ovary and testicle diseases and neuroendocrine tumours, polyglandular syndromes, diabetes of various types, and the metabolic syndrome – hypoglycaemia, obesity, dyslipidaemia, 5) kidney and urinary tract diseases, including acute and chronic kidney failures, glomerulus and interstitial kidney diseases, renal cysts, kidney stones, urinary tract infections, urinary tract carcinomas, especially of the urinary bladder and kidneys, 6) diseases of the haematopoietic system, including bone marrow aplasia, anaemia, granulocytopaenia and agranulocytosis, thrombocytopaenia, acute leukaemias, myeloproliferative and myeloproliferative-myelodysplastic neoplasms, myelodysplastic syndromes, neoplasms of mature lymphocytes B and T, haemorrhagic diatheses, thrombophilia, immediate life-threatening conditions in haematology, blood disorders in diseases of other organs, 7) rheumatic diseases, including systemic connective tissue diseases, systemic vasculitis, spondyloarthropathies, bone metabolic diseases, especially osteoporosis and osteoarthritis, gout, 8) allergic diseases, including anaphylaxis and anaphylactic shock, and angioedema, 9) water-and-electrolyte and acid-base disorders: dehydrations, excessive water retention, electrolyte management disorders, acidosis and alkalosis |

**Skills:**

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| U1 – The student can take medical interview with an adult patient |
| U2 – The student can conduct complete and targeted physical examination of an adult patient |
| U3 – The student can evaluate the overall condition, state of consciousness, and awareness of the patient |
| U4 – The student can assess and describe the patient’s somatic and mental condition |
| U5 – The student can recognise immediately life-threatening conditions |
| U6 – The student can keep the patient’s medical records |

**Social competence:**

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| K1 – The student is ready to establish and maintain a deep and respectful contact with the patient, as well as show understanding for worldview and cultural differences |
| K2 – The student is ready to be guided by the good of the patient |
| K3 – The student is ready to respect medical confidentiality and patient rights |
| K4 – The student is ready to take action towards the patient based on ethical principles, with the awareness of social conditions and limitations resulting from the disease |
| K5 – The student is ready to perceive and recognize his own limitations and to self-assess deficits and educational needs |

**TEACHING FORMS AND METHODS:**

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| Lecture(W1;W2;W3;W4;U1;U2;U3;U4;U5;U6;K1;K2;K3;K4;K5;):Multimedia presentation |
| Seminar(W1;W2;W3;W4;U1;U2;U3;U4;U5;U6;K1;K2;K3;K4;K5;):Discussion concerning pathophysiological background of signs and symptoms in internal medicine - relevant to the topics elaborated during the semester |
| Classes(W1;W2;W3;W4;U1;U2;U3;U4;U5;U6;K1;K2;K3;K4;K5;):Practical classes -Bedside teaching - history taking and physical examination with assistance of a teacher. |

**FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

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| Lecture (Evaluation of the work and cooperation in the group) - Grading based on attendance and activity - |
| Seminar (Evaluation of the work and cooperation in the group) - Grading based on attendance and activity - |
| Classes (Colloquium practical) - Practical test in terms of history taking and physical examination, covering the topics discussed during semesters V and VI. Colloquium test 90 questions, passing threshold - 60% - |

**BASIC LITERATURE:**

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| 1. Siegenthaler W, *Differential Diagnosis in Internal Medicine*, Wyd. Thieme, R. 2011 |
| 2. Kumar Clarks Saunders, *Clinical medicine*, Wyd. Elsevier, R. 2009 |
| 3. Boone N.A., Colledge N.R – Editors, *3. Davidson’s Principles Practice of Medicine*, Wyd. Churchill Livingstone – Elsevier, R. 2010 |

**SUPPLEMENTARY LITERATURE**:

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| 1. Jaeschke Roman, *McMaster Textbook of Internal Medicine 2019/2020*, Wyd. Medycyna Praktyczna, R. 2020 |

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| **Legal acts specifying learning outcomes:** **672/2020****Disciplines:** medical sciences**Status of the course:**Obligatoryjny**Group of courses:**B - przedmioty kierunkowe**Code: ISCED** 0912**Field of study:**Medicine**Scope of education:****Profile of education:** General academic**Form of studies:** full-time**Level of studies**: uniform master's studies**Year/semester:** 3/6 |

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| **Types of classes:** Lecture, Seminar, Classes**Number of hours in semester:**Lecture: 10.00, Seminar: 10.00, Classes: 40.00**Language of instruction:**English**Introductory subject:** anatomy, physiology**Prerequisites:** knowledge about physiology and human anatomy |

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| **Name of the organisational unit conducting the course:**Katedra Kardiologii i Chorób Wewnętrznych**Person responsible for the realization of the course:**dr n. med. Piotr Cygański**e-mail:**  |

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| **Additional remarks:**  |

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**Detailed description of ECTS credits awarded - part B**

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| **48SJ-INM28****ECTS: 4.00****CYCLE: 2023L** | **INTERNAL MEDICINE 2/8** |

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

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| - participation in: Lecture | 10.0 h |
| - participation in: Seminar | 10.0 h |
| - participation in: Classes | 40.0 h |
| - consultation | 2.0 |

Total: 62.0 h.

2. Independent work of a student:

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| Prepare the student for the exercises | 38.00 h |

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Total: 38.0 h

contact hours + independent work of a student Total: 100.0 h

1 ECTS credit = 25-30 h of an average student’s work, number of ECTS credit = 100.0 h : 25.0 h/ECTS = 4.00 ECTS on average: 4.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

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