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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN |
|  |  **Course sylabus – part A** |
| **48SJ-INM68** | **INTERNAL MEDICINE 6/8** |
| **2024 L** |  |
| **ECTS: 1.00** |  |

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| **SUBJECT MATTER CONTENT:**LECTUREEndocrinologyThyroid and parathyroid gland diseases. Diagnosis and treatment of hematogenic malignancies. Diagnosis of anemia. Bleeding disorders. Pulmonology:Sleep respiratory disorders. Lung cancer. Signs and symptoms of respiratory system diseases. Asthma and Chronic Obstructive Pulmonary Disease. Pulmonary hypertension. Rheumatology: Signs symptoms and general characteristics of rheumatoid diseases. Rheumatoid arthritis. Cardiology: Myocardial infarction. Coronary artery disease. Myocarditis. Pericarditis. Infectious endocarditis. Heart rhythm disorders. Infectious endocarditis. Heart rhythm disorders. Acquired and inherited valvular heart diseases in adults. Chronic heart failure.SEMINAREndocrinology:Pituitary gland diseases and adrenal gland diseases.Osteoporosis and neuroendocrine tumors.Cardiology:Pathophysiology of coronary artery atherosclerosis. Epidemiology of coronary heart disease. Risk factors – primary and secondary prevention. Clinical aspects of coronary heart disease. Diagnosis and treatment. Pathophysiology of myocardial infarction (STEMI and NSTEMI). Diagnostic and therapeutic algorithms in life threatening conditions in cardiology. Acquired valvular heart diseases: clinical presentation. Inherited valvular heart diseases in adults: clinical presentation. Clinical diagnosis of chronic heart failure.Infectious diseases of the heart. Heart pacing – indications and techniques. Syncope – differential diagnosis and algorithmsPulmonology:Pneumonia. Covid-19, symptoms, treatment, complications. Interstitial diseases of the lungs. Tuberculosis and other mycobacterial diseases. Acute and chronic respiratory failure. Rare diseases of respiratory system.Gastroenterology:Gastro-oesophageal reflux disease, gastritis, gastric and duodenal ulcer disease. Celiac disease. Bacterial overgrowth syndrome. Irritable bowel syndrome. Diverticular disease of the large intestine. Intestinal ischemia. Bleeding from the upper and lower gastrointestinal tract.Hematology:Diagnosis and treatment of thrombocytopenia. Lymphomas. Myelodysplastic syndromes. Rheumatology:Systemic connective tissue disorders: SLE, scleroderma, dermatomyositis, polymyalgia rheumatica. Spondyloarthropathies. Osteoarthritis, gout and other pathologies secondary to crystal deposition within joints and tissues. Acute and life-threatening situations in rheumatoid disease. Paraneoplastic syndromes in rheumatology.ĆWICZENIA: Endocrinology:Thyroid gland dysfunction. Graves' disease - (definition and etiopathogenesis, clinical picture, diagnosis, differentiation, treatment, prognosis). Thyroid orbitopathy. Toxic and non toxic nodular goiter. Thyroid cancer. Thyroiditis. Thyroiditis and thyroid cancers. Hyperaldosteronism, Cushing syndrome, Addison disease. Adrenal gland incidentaloma. Adrenal gland cancer. MEN syndromed. Hypo- and hyperparathyreoidism. Pituitary tumors. Hormonally active and inactive pituitary gland tumors. Hormonal disorders of ovaries with women: primary and secondary amenorrhea, polycystic ovary syndrome. Tumors of ovaries. Disorders of perimenopausal and postmenopausal period. Primary and secondary hormonal disorders of testes with men. Neoplasms of testicles. Gynecomastia. Water-electrolyte and acid-base balance disorders: dehydration, overhydration, hypo and hypernatremia, hypo and hyperkalemia, hypo and hypermagnesemia, hypo- and hypercalcemia, hypo- and hyperphosphatemia; acidosis and alkalosis. Metabolic diseases of bone: osteomalacia, osteoporosis – determinants of peak bone mass and density, diagnosis and treatment of osteoporosis, FRAX; primary and secondary osteoporosis; prophylaxis of osteoporosis.Gastroenterology: GI symptomatology. Clinical manifestations, diagnosis and treatment of gastroesophagealreflux disease. Current guidelines of acute pancreatitis management. Colorectal cancer – symptoms**TEACHING OBJECTIVE:**Etiology, pathophysiology, epidemiology, diagnosis and treatment of diseasesrespiratory system, allergies, metabolic diseases, diseasesrheumatological diseases, heart diseases and hematopoietic system diseases.**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:****Symbols for outcomes related to the field of study:****LEARNING OUTCOMES (Knowledge, Skills, Social competence):**

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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 |
| **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 |
| **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', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'W4', 'U4', 'K4', 'U5', 'K5', 'U6']-Multimedia presentation |
| Seminar-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'W4', 'U4', 'K4', 'U5', 'K5', 'U6']-Discussion concerning pathophysiological background of signs and symptoms in internal medicine - relevant to the topics elaborated during the semester |

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

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| Lecture-(Evaluation of the work and cooperation in the group)-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'W4', 'U4', 'K4', 'U5', 'K5', 'U6']-Grading based on attendance and activity |
| Seminar-(Evaluation of the work and cooperation in the group)-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'W4', 'U4', 'K4', 'U5', 'K5', 'U6']-Grading based on attendance and activity |

**Literature:**

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| 1. ***Differential Diagnosis in Internal Medicine***, Siegenthaler W., Thieme, 2011, Strony: , Tom: (literatura podstawowa)  |
| 2. ***Clinical medicine***, Kumar Clarks, Saunders – Elsevier, 2009, Strony: , Tom: (literatura podstawowa)  |
| 3. ***Davidson’s Principles Practice of Medicine***, Boone N.A., Colledge N.R – Editors, Churchill Livingstone – Elsevier, 2010, Strony: , Tom: (literatura podstawowa)  |
| 4. ***MD - Goldman's Cecil Medicine***, Lee Goldman, MD and Andrew I. Schafer, Saunders, 2012, Strony: , Tom: (literatura uzupełniająca)  |

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| **Legal acts specifying learning outcomes:** **Status of the course:** None**Group of courses:**None**Discipline**: Medicine**Classes:**  Lecture (13 h)  Seminar (28 h)**Step**: Kierunek lekarski piąty rok semestr dziesiąty (oferta w jęz. angielskim dla obcokrajowców)**Program:** Medicine**Form of studies:**full-time**Level of studies:** uniform master's studies |

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| **Introductory subject:** anatomy, physiology**Prerequisites:** knowledge about physiology and human anatomy |

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| **Coordinators:****Piotr Cygański, piotr.cyganski@uwm.edu.pl** |

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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN |
|  | **Detailed description of ECTS credits awarded - part B** |
| **48SJ-INM68** | **INTERNAL MEDICINE 6/8** |
| **2023L** |  |
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The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

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| - participation in: Lecture | 13 h |
| - participation in: Seminar | 28 h |
| - consultation | 2 h |
|  | Total: 43 h |

2. Independent work of a student:

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|  | Total: 0 h |

Total (contact hours + independent work of a student): 43 h

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

ECTS Points = 43 h : 25 h/ECTS = **1.00** ECTS

Average: 1.00 ECTS

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| - including the number of ECTS credits for contact hours with the direct participation of an academic teacher | 1.00 ECTS |
| - including the number of ECTS credits for hours of independent work of a student | 0.00 ECTS |