



48SJ-INM78  
2025Z  
ECTS: 6.00

## Course syllabus – part A INTERNAL MEDICINE 7/8

### SUBJECT MATTER CONTENT:

#### Classes

##### Cardiology:

Chronic coronary disease. Acute coronary syndrome with and without ST segment elevation

##### Cardiology/Hemodynamics

##### Classes I

1/ Myocardial revascularization a/ ST-Segment Elevation Acute Coronary Syndromes (STEACS), b/ Non-ST-Segment Elevation Acute Coronary Syndromes (NSTEMACS), c/ Chronic Coronary Syndromes (CCS)

2/ Structural heart diseases a/ Atrial Septal Defect/Patent Foramen Ovale (ASD/PFO), b/ Left Atrial Appendage Closure (LAAC), c/ Balloon Aortic Valvuloplasty (BAV), d/ Transcatheter Aortic Valve Implantation (TAVI)

##### Classes - II

1/ Electrotherapy a/ Implantable Pulse Generator (IPG), b/ Implantable Cardioverter-Defibrillator (ICD), c/ Cardiac Resynchronization Therapy (CRT)  
2/ Electrophysiology a/ Electrophysiology Studies (EPS)

##### Pulmonology:

Diagnostic tests in pulmonology: spirometry, plethysmography, bronchofiberscopy, polysomnography, ergospirometry, Principles of diagnosis in tuberculosis. Imaging in respiratory system disease: X- ray, CT, HRCT of the chest. Lung ultrasound, PET. Drugs in lung disease. Allergies – urticaria, angioedema, anaphylaxis and anaphylactic shock. Lung tumor diagnosis.

##### Gastrology :

Indigestion, anorexia and bulimia. Upper and lower digestive tract bleeding in internal diseases. Diagnostic strategy in gastrointestinal diseases. Dietary hints for malnourished patients. Diet in GI malignancies. Diarrhea and constipation – etiology, differential diagnosis, treatment). Demonstration of gastroenterological procedures: esophageal varices ligation, gastrostomy, polypectomy, intrahepatic gradient measurements. Demonstration and discussion of typical imaging procedures in different pathologies of GI tract and digestive system diseases. Clinical consequences of digestion abnormalities, malabsorption syndrome and malnutrition. Primary and metastatic malignancies of digestive system.

### TEACHING OBJECTIVE:

Acquiring and consolidating knowledge about the etiology, pathophysiology, epidemiology, diagnosis and treatment of cardiac diseases, pulmonology and gastroenterology

### DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION

#### Legal acts specifying learning outcomes:

672/2020 (Medicine),

Status of the course: None

Group of courses: None

Discipline: Medicine

Classes:

Classes (90 h)

Step: Kierunek lekarski szósty rok semestr jedenasty (oferta w jęz. angielskim dla obcokrajowców)

Program: Medicine

Form of studies: full-time

Level of studies: uniform master's studies

**Introductory subject:** anatomy, histology, biochemistry, microbiology, physiology, and pathophysiology, internal medicine sem. V-X

**Prerequisites:** Background of anatomy, physiology and pathophysiology, knowledge of intro to internal medicine (history taking and physical diagnosis), internal medicine sem. V-X

#### Coordinators:

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**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:**

K.1.+, K.2.+, K.3.+, K.4.+, K.5.+, M/NM\_K.7.+, KA7\_KR1+, E.U1.+, E.U3.+,  
E.U7.+, E.U14.+, E.U13.+, KA7\_UU4+, E.U24.+, E.U25.+, E.U29.+, E.U30.+,  
E.U32.+, E.U16.+, M/NM\_D.W17.+, M/NM\_E.W1.+, M/NM\_E.W7.+,  
M/NM\_E.W41.+, M/NM\_E.W42.+

**LEARNING OUTCOMES (Knowledge, Skills, Social competence):**

<b><u>W1</u></b>	The student knows and understands the patient's rights
<b><u>W2</u></b>	The student knows and understands the environmental and epidemiological conditions of the most common diseases;
<b><u>W3</u></b>	The student knows and understands the causes, symptoms, and principles of diagnosis in relation to the most common internal diseases occurring in adults and their complications: diseases of the circulatory system, respiratory system, digestive system,
<b><u>W4</u></b>	The student knows and understands the theoretical and practical foundations of laboratory diagnostics.
<b><u>W5</u></b>	The student lists the indications for implementing monitored therapy.
<b><u>U1</u></b>	The student can take medical interview with an adult patient
<b><u>U2</u></b>	The student can conduct complete and targeted physical examination of an adult patient
<b><u>U3</u></b>	The student can assess the patient's general condition, state of consciousness and awareness;
<b><u>U4</u></b>	The student can recognise immediately life-threatening conditions
<b><u>U5</u></b>	The student can assess and describe the patient's somatic and mental condition;
<b><u>U6</u></b>	The student can analyse the potential undesirable side effects of individual medicinal substances and interactions between them
<b><u>U7</u></b>	The student can interpret the results of laboratory tests and identify the causes of deviations from the norm
<b><u>U8</u></b>	The student can apply nutritional treatment, including enteral and parenteral feeding
<b><u>U9</u></b>	The student can perform the basic medical procedures and therapies, including 1) taking the body temperature (both external and internal), the heart rate, the arterial pressure applying a non-invasive method, 2) monitoring the vital signs with the use of the patient monitor, pulse oximetry, 3) conducting spirometry tests, oxygentherapy, assisted and controlled ventilation, 4) inserting the oropharyngeal tube, 5) performing intravenous, intramuscular, and subcutaneous injections, cannulating peripheral veins, sampling peripheral venous blood, sampling blood for culture, sampling arterial blood, sampling arterialised capillary blood, 6) taking swabs

from the nose, throat, and skin, 7) catheterising the urinary bladder in women and men, inserting the gastric tube, performing gastric lavage, enema, 8) taking standard electrocardiogram tests and interpreting them, performing electrical cardioversion and defibrillation, 9) taking simple strip tests and measuring glucose concentration in blood

#### U10

The student can assist in the following medical procedures and operations: 1) transfusing blood and blood product preparations, 2) performing pleural drainage, 3) performing pericardiocentesis, 4) performing paracentesis, 5) performing lumbar puncture, 6) performing thin needle biopsy, 7) performing epicutaneous tests, 8) performing intradermal and scarification tests and interpreting their results

#### U11

The student can plan specialist consultations

#### U12

The student can plan diagnostic, therapeutic, and prophylactic procedures

#### 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 act in the best interests 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 awareness of the social conditions and limitations resulting from the disease;

#### K5

The student is ready to notice and recognize his/her own limitations and to self-assess his/her educational deficits and needs

#### K6

The student is ready to use objective sources of information;

#### K7

The student is ready to observe and apply the principles of academic and professional ethics and professional image, academic, social and professional professionalism;

### **TEACHING FORMS AND METHODS:**

Classes-['K1', 'U1', 'W1', 'W2', 'W3', 'W4', 'W5', 'U2', 'K2', 'K3', 'U3', 'U4']-Practical exercises at the bedside of a patient in cardiology, gastroenterology and pulmonology

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

Classes-(Part in the discussion)-['K1', 'U1', 'W1', 'W2', 'W3', 'W4', 'W5', 'U2', 'K2', 'K3', 'U3', 'U4']-Credit based on attendance and activity in class

### **Literature:**

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





**Detailed description of ECTS credits awarded - part B**  
**INTERNAL MEDICINE 7/8**

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**2025Z**

**ECTS: 6.00**

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Classes	90 h
- consultation	2 h
Total:	92 h

2. Independent work of a student:

Preparation for classes	6.00 h
Total:	6.00 h

Total (contact hours + independent work of a student): 98.00 h

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

ECTS Points = 98.00 h : 25 h/ECTS = **6.00** ECTS

Average: 6.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher	5.63 ECTS
- including the number of ECTS credits for hours of independent work of a student	0.37 ECTS