

**SYLLABUS**

**concerning the cycle of education 2018-2024**

(date range)

**1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE**

Subject / Module	<b>Internal diseases</b>
Course code / module *	<b>ChW/E</b>
Faculty of (name of the leading direction)	<b>Medical College of Rzeszów University</b>
Department Name	<b>Medical College of Rzeszów University</b>
Field of study	<b>medical direction</b>
Level of education	<b>uniform master's studies</b>
Profile	<b>practical</b>
Form of study	<b>stationary / extramural</b>
Year and semester	<b>year V, semester IX</b>
Type of course	<b>obligatory</b>
Coordinator	<b>Dr hab. n. med. Rafał Filip</b>
First and Last Name of the Teacher	

\* - According to the resolutions of the Faculty of Medicine

**1.2. Forms of classes, number of hours and ECTS**

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
15	25	-	-	20	-	-	-	<b>4</b>

**1.3. The form of class activities**

classes are in the traditional form

classes are implemented using methods and techniques of distance learning

**1.4. Examination Forms / module (exam, credit with grade or credit without grade)**

**2. REQUIREMENTS**

Knowledge in the field of anatomy, physiology, pathophysiology

**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

### 3.1. Objectives of this course/module

C1	Gaining theoretical and practical knowledge in the field of internal diseases and shaping the attitude of the future doctor in relation to the patient.
C2	Mastering the ability to perform differential diagnosis, acquiring skills diagnostic and therapeutic procedures in patients treated outpatients and in the conditions of the internal ward
C3	Learning the correct doctor-patient relationship based on the principles of ethics, personal culture and legal regulations as well as the practical application of acquired skills during nursing and medical holidays.
C4	Acquisition of practical skills in the field of medical history (making contact with the patient), physical examination, selection and interpretation of additional tests, symptomatology of internal diseases.
C5	Knowledge of the principles of diagnosing and conducting differential diagnosis of basic disease entities in the field of internal diseases, selection of appropriate laboratory tests and methods for imaging of internal organs and assessing their activities.

### 3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	<p>He knows and understands the causes, symptoms and principles diagnosis and therapeutic treatment in relation to the most common internal diseases occurring in people adults and their complications:</p> <p>e) kidney and urinary tract diseases, including: acute and chronic renal failure, renal and interstitial kidney disease, kidney cyst, kidney stones, urinary tract infections, urinary tract tumors, in particular bladder cancer and kidney cancer,</p> <p>f) hematopoietic system diseases, including bone marrow aplasia, anemia, granulocytopenia and agranulocytosis, thrombocytopenia, acute leukemias, myeloproliferative and myelodysplastic-proliferative tumors, myelodysplastic syndromes, tumors from mature B and T lymphocytes, bleeding disorders, thrombophilia, imminent life-threatening hematology, blood disorders in diseases of other organs;</p> <p>i) water-electrolyte and acid-base disorders: dehydration conditions, conduction states, disorders electrolyte management, acidosis and alkalosis;</p>	E.W7.
EK_02	can apply nutritional treatment (including enteral and parenteral nutrition)	E.U25.

EK_03	Assists in the following procedures and medical procedures: a) transfusion of blood and blood products, b) drainage of the pleural cavity, c) puncture of the pericardial sac, d) puncturing the peritoneal cavity, e) lumbar puncture, f) thin-needle biopsy, g) epidermal tests, h) intradermal and scarification tests and interprets their results;	E.U30.
EK_04	recognizes the agony of the patient and determines the patient's death	E.U37
EK_05	can establish and maintain a deep and respectful contact with the patient	K.01.
EK_06	respects medical confidentiality and patient's rights	K.03.

### 3.3 CONTENT CURRICULUM (filled by the coordinator)

#### A. Lectures

<b>Course contents</b>
Acute coronary syndromes.
Myocardial infarction.
Arrhythmias.
Primary hypertension.
Secondary hypertension.
Peptic ulcer of the stomach and duodenum.
Malabsorption syndromes. IBS.
Inflammatory bowel disease.
Tumors of the upper and lower gastrointestinal tract
Diseases of the gall bladder and bile ducts.
Peripheral artery disease - arteries and veins.
Heart failure - definition, epidemiology, diagnosis, pharmacological treatment, interventional treatment
Acute coronary syndromes - diagnosis, treatment. Treatment of complications acute coronary syndromes
Allergies of the upper respiratory tract

Treatment of asthmatic condition
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## B. Exercises

<b>Course contents</b>
Differential diagnosis of changes detected by physical examination in hematopoietic system diseases
Etiopathogenesis and diagnosis of anemia
Interpretation of the results of laboratory tests in hematology
Treatment of hematopoietic diseases
Epidemiology of kidney diseases - basic clinical symptoms of urinary tract diseases - diagnostics
Recognition and treatment of primary and secondary glomerulonephritis
Urinary tract infections - diagnosis, treatment, kidney stones, cysts and cystic kidney disease,
Acute and chronic renal failure - diagnosis and treatment
Hemopoiesis and haematological diagnostics
Anemia and anemia - diagnosis and treatment
Acute and chronic leukemia - diagnosis and treatment
Diseases of the lymphatic system - diagnostics and treatment
Disorders of water and electrolyte management - recognition and treatment
Disturbances in the acid-base economy - recognition and treatment

## C. Seminars

<b>Course contents</b>
Arrhythmias
Primary hypertension.
Secondary hypertension
A repetition of the discussed part of exercises devoted to cardiology.
Peptic ulcer of the stomach and duodenum.
Etiopathogenesis and clinic of viral hepatitis.
Neoplasms of the upper gastrointestinal tract.
Inflammatory bowel disease.

Diseases of the bile ducts and gallbladder.
Complexes of impaired intestinal absorption.
Neoplasms of the lower gastrointestinal tract
A repetition of the discussed part of the exercises devoted to gastroenterological issues.
Diseases of the circulatory system during pregnancy.
Selected imaging methods in the diagnosis of systemic diseases blood circulation: USG, coronary angiography, pulmonary artery angiography, multiple-row computed tomography
Bronchial asthma;
Allergy to medicines - principles of diagnostics
Dyspnea and cough - different diagnosis The immune system - structure and functions in clinical practice
Functional tests of the respiratory system; Dangerous states of life in allergology
Signs and symptoms of hematopoietic system diseases; anemia
Immunodeficiency; Myelodysplastic and myeloproliferative syndromes
Lymphoproliferative syndromes; Laboratory diagnosis of hematopoietic system diseases

### 3.4 TEACHING METHODS

**Lecture:** multimedia presentation.

**Exercises:** practical exercises, demonstration, lecture form.

**Seminars:** multimedia presentation, lecture form.

**Student's own work:** work with a book

## 4 METHODS AND EVALUATION CRITERIA

### 4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
EK_01	Written test	Lecture
EK_02	Practical pass	Exercises
EK_03	Practical pass	Exercises
EK_04	Practical pass	Exercises
EK_05	Practical pass	Exercises

EK_06	Practical pass	Exercises
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#### 4.2 Conditions for completing the course (evaluation criteria)

##### **Lecture (EK\_01):**

Written test

Oral exam (non-standardized, standardized, traditional, problem-oriented) or

Written exam - student generates / recognizes response (essay, report, short structured questions / SSQ /; multiple-choice test / MCQ /; multiple-response test / MRQ /; match test; T / N test; answer replenishment test)

5.0 - has knowledge of each of the contents of education at the level of 90% -100%

4.5 - has knowledge of each of the content of education at the level of 84% -89%

4.0 - has knowledge of each of the content of education at the level of 77% -83%

3.5 - has knowledge of each of the content of education at the level of 70% -76%

3.0 - has knowledge of each of the content of education at the level of 60% -69%

2.0 - has knowledge of each of the contents of education below 60%

##### **Classes and Seminars (EK\_02, EK\_03, EK\_04):**

Practical exam

Objective Strukturyzowany Egzamin Kliniczny / OSCE / - an organized exam in the form of a station with a specific task to perform / stations with or without sick, with or without clinical material, with a simulator, with a phantom, single or paired, with the presence of additional personnel, Leisure /

Mini-CEX (mini - clinical examination)

Implementation of the task ordered. Design, presentation

- pass with an assessment including:

- attendance

- activity on exercises

- grades from partial tests

**5.0** - the student actively participates in classes, is well prepared, has acquired theoretical and practical knowledge in the field of internal diseases at a very good level, He mastered the skills of diagnostic and therapeutic procedures in patients treated outpatient and in the internal ward.

**4.5** - the student actively participates in the classes, has acquired theoretical and practical knowledge in the field of internal diseases at a good level, has mastered the skills of diagnostic and therapeutic procedures in patients treated outpatients and in the internal ward.

**4.0** - the student actively participates in classes, is improved, has acquired theoretical and practical knowledge in the field of internal diseases at a good level, is able to plan well the diagnostic and therapeutic activities in outpatients and in the conditions of the internal ward.

**3.5** - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he acquired theoretical and practical knowledge in the field of internal medical conditions to a sufficient extent, is not always able to properly plan diagnostic and therapeutic activities in outpatients and internal branch conditions.

**3.0** - the student participates in the classes, has acquired theoretical and practical knowledge in the field of internal diseases to a sufficient extent, is often corrected.

**2.0** - the student passively participates in the classes, the statements are incorrect in substance, the theoretical and practical knowledge in the field of internal diseases is insufficient, can not plan diagnostic and therapeutic activities in patients treated outpatients and in internal conditions, often makes mistakes

#### 5. Total student workload required to achieve the desired result in hours and ECTS credits

Activity	Hours / student work
Hours of classes according to plan with the teacher	60
Preparation for classes	20
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	20
Participation in colloquia	<b>2</b>
Other (e-learning)	-
<b>SUM OF HOURS</b>	<b>114</b>
<b>TOTAL NUMBER OF ECTS</b>	<b>4</b>

#### 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

#### 6. LITERATURE

##### **READING:**

1. Kokot F. (red), „Choroby wewnętrzne” Wydawnictwo Lekarskie PZWL, W-wa 2006
2. Tatoń J., Czech A., „Ogólna diagnostyka internistyczna”, Wydawnictwo Lekarskie PZWL 1991.
3. Kokot F.: Diagnostyka różnicowa objawów chorobowych.PZWL2007
4. Szczeklik A. red.: Choroby wewnętrzne aktualny stan wiedzy 2010, wyd.

Additional literature:

5. Szczeklik A., Gajewski P.: „Choroby wewnętrzne 2009 – kompendium.”, Medycyna Praktyczna, Kraków, 2009
6. Dacre J., Kopelman P., Badanie kliniczne, PZWL 2004
7. Tatoń J., Czech A., Diagnostyka internistyczna, PZWL, 2005.
8. Toy E., Patlan J., Faustinella F. Ciekawe przypadki internistyczne, PZWL, 2009.
9. Herold G., Medycyna wewnętrzna- repetytorium dla studentów medycyny i lekarzy, PZWL, 2008
10. Doboszyńska A., Objawy chorób wewnętrznych, podręcznik dla studentów, PZWL 2013.

Acceptance Unit Manager or authorized person