

**SYLLABUS**

**concerning the cycle of education 2022-2028**

(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 X</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 relations to the most common internal diseases occurring in people adults and their complications:</p> <p>d) diseases of the endocrine system, including diseases:</p> <p>hypothalamus and pituitary, thyroid, parathyroid, cortex and spinal cord</p> <p>adrenal glands, ovaries and testes, as well as neuroendocrine tumors, polyglandular syndromes, various types of diabetes and syndrome metabolic syndrome: hypoglycaemia, obesity, dyslipidemia,</p> <p>g) rheumatic diseases, including: systemic diseases of the tissue total, systemic vasculitis, arthritis with spinal involvement, bone metabolic diseases, in particular osteoporosis and osteoarthritis, gout,</p>	E.W7.
EK_02	Performs differential diagnosis of the most common diseases of adults and children	E.U12.
EK_03	He can plan specialist consultations	E.U32
EK_04	He can carry out the patient's medical records	E.U38.

EK_05	He is able to 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>
Immune diagnosis of connective tissue systemic diseases.
Anaphylaxis - diagnosis, diagnosis and management.
Diagnostics - functional tests of allergic diseases of the respiratory system.
Food allergy.
Differential diagnosis of hematuria and proteinuria.
Renal replacement therapy - hemodialysis and peritoneal dialysis.
Epidemiology and diagnostics of hypertension.
Treatment of hypertension.
Kidney transplantation.
Metabolic syndrome - diagnostics and treatment.
Diabetes in special conditions - pregnancy, old age.
Acute and late complications of diabetes - monitoring of the course and therapeutic treatment.
Lipid metabolism disorders and their treatment.
Pituitary diseases (acromegaly, Cushing's syndrome, hyperprolactinemia).
Advances in medicine on the example of osteoporosis diagnosis.

#### B. Exercises

<b>Course contents</b>
Hemostatic disorders. Treatment of hematopoietic disorders
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, kidney cancer.
Acute and chronic renal failure - recognition 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.
Etiopathogenesis and clinic of diabetes.
Treatment of diabetes - pharmacological and oral antidiabetic drugs.
Treatment of diabetes - insulin therapy.
Acute complications of diabetes (diabetic coma).
Complications of chronic diabetes.
Hypertension - epidemiology, diagnostics, treatment.
Diseases of the adrenal cortex and adrenal medulla. Neuroendocrine tumors of the digestive system.
Assessment of fracture risk. Prevention and treatment of bone metabolic diseases
Vitamin D and calcium. Falls as a risk factor

### C. Seminars

<b>Course contents</b>
Hemostatic disorders. Treatment of hematopoietic disorders.
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, kidney cancer.
Acute and chronic renal failure - recognition 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.

Etiopathogenesis and clinic of diabetes.
Treatment of diabetes - new pharmacological and oral antidiabetic drugs.
Treatment of diabetes - insulin therapy.
Acute complications of diabetes (diabetic coma).
Complications of chronic diabetes.
Hypertension - epidemiology, diagnostics, treatment.
Diseases of the adrenal cortex and adrenal medulla. Neuroendocrine tumors of the digestive system.
Assessment of fracture risk. Prevention and treatment of bone metabolic diseases
Vitamin D and calcium. Falls as a risk factor

### 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

### 4.2 Conditions for completing the course (evaluation criteria)

<p><b>Lecture (EK_01):</b></p> <p>Written test</p> <p>Oral exam (non-standardized, standardized, traditional, problem-oriented) or</p>
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Written exam - student generates / recognizes the answer (essay, report, short structured questions / SSQ /; multiple choice test / MCQ /; multiple response test / MRQ /; match test; T / N test; answer completion 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 conditions of the internal ward

**4.0** - the student actively participates in the classes, is improved, has acquired theoretical and practical knowledge in the field of internal diseases at a good level, is able to plan the diagnostic and therapeutic activities well in patients treated 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 diseases to a sufficient extent, not always able to properly plan diagnostic and therapeutic activities in patients treated outpatient and in the conditions of the internal

**3.0** - the student participates in 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>104</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