

Subject name Internal Diseases	ECTS Code																		
Name of unit teaching the subject THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE																			
Studies <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 20%;">Field of study</th> <th style="width: 20%;">degree</th> <th style="width: 20%;">mode</th> <th style="width: 20%;">major</th> <th style="width: 20%;">specialization</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">medical</td> <td style="text-align: center;">Uniform Master's</td> <td style="text-align: center;">Stationary/non-stationary</td> <td></td> <td></td> </tr> </tbody> </table>		Field of study	degree	mode	major	specialization	medical	Uniform Master's	Stationary/non-stationary										
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Surname of instructor (instructors)																			
Type of class, method of implementation and specified number of hours	Amount of ECTS points																		
A.Type of class <ul style="list-style-type: none"> • lecture, • clinical classes, • classes in simulated conditions * mark where applicable	Description of awarding ECTS points: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 70%;">Activity</th> <th style="width: 30%;">Student workload</th> </tr> </thead> <tbody> <tr> <td>Participation in lectures</td> <td style="text-align: center;">60 hours</td> </tr> <tr> <td>Participation in practical classes</td> <td style="text-align: center;">200 hours</td> </tr> <tr> <td>Preparation for practical classes and colloquiums</td> <td style="text-align: center;">30 hours</td> </tr> <tr> <td>Examination preparation</td> <td style="text-align: center;">30 hours</td> </tr> <tr> <td>Report preparation</td> <td></td> </tr> <tr> <td>Consultations</td> <td style="text-align: center;">15 hours</td> </tr> <tr> <td>Total number of hours</td> <td style="text-align: center;">335 hours / 30</td> </tr> <tr> <td>Amount of ECTS points per module</td> <td style="text-align: center;">12 ETCS</td> </tr> </tbody> </table>	Activity	Student workload	Participation in lectures	60 hours	Participation in practical classes	200 hours	Preparation for practical classes and colloquiums	30 hours	Examination preparation	30 hours	Report preparation		Consultations	15 hours	Total number of hours	335 hours / 30	Amount of ECTS points per module	12 ETCS
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B.Method of implementation <ul style="list-style-type: none"> • classes in a didactic room • clinical exercise classes • classes in a simulation workshop 																			
C.Amount of hours in accordance with the approved curriculum Semester 07 – 90h Semester 08 – 90h Semester 09 – 105h																			
Didactic cycle Semester 07, 08, 09																			
Subject status <ul style="list-style-type: none"> • mandatory / facultative 	Language of instruction Polish																		
Didactic methods Lectures, Tests Demonstrations on simulators and patients Presentations Presentations with the use of results of additional examinations(e.g. USG, CT, radiography) Discussion on clinical cases – case study Practical exercises with the use of simulators Clinical exercises in contact with the patient Medical procedure exercises on simulators Exercises will be implemented within the framework of clinical blocks and classes in a simulation workshop Simulators will be used to teach physical examination with palpation, percussion, auscultation, as well as to teach basic medicinal procedures including injections, urinary catheterization, pleural puncture, pericardiocentesis, abdominal paracentesis Classes will be implemented within the framework of clinical blocks	Forms and methods of passing and general grading criteria or examination requirements <hr style="border-top: 1px dashed black;"/> A. Method of passing <ul style="list-style-type: none"> • examination • practical examination* * mark where applicable <hr style="border-top: 1px dashed black;"/> B. Forms of passing: <ul style="list-style-type: none"> • written examination: test • passing practical classes on simulators • written passing – individual exercise modules • <hr style="border-top: 1px dashed black;"/> C. Basic grading criteria Are individually specified, correspond to the educational effects																		

Definition of preparatory subjects and initial requirements

Familiarity with anatomy, physiology, pharmacology, microbiology, pathophysiology, internal propedeutics

Subject aim

1. Familiarizing the student with principles and organization of clinical work, basics of ethics in the everyday work of a doctor.
2. Acquiring the abilities of to conduct a medical interview and a physical examination and familiarizing the student with clinical terminology, medical way of thinking in the diagnostic process
3. Independent case history taking
4. Conducting a full physical examination
5. Preparing a medical documentation (disease history)
6. Performing basic procedures and medical procedures
7. Becoming familiar with and understanding the causes, symptoms, principles of diagnosis and therapeutic treatment as far as the most common internal diseases and their complications
8. Becoming familiar with and understanding preventive measures and methods of preventing internal diseases
9. Pharmacological treatment and non-pharmacological interventions in selected internal diseases, principles of dietary and rehabilitative treatment of selected internal diseases

Curriculum

Semester 7

3 thematic blocks as far as cardiology, gastroenterology, as well as nephrology and water-electrolyte balance

Semester 8

2 thematic blocks as far as cardiology and gastroenterology

Semester 9

Blocks in hematology, allergology, endocrinology, diabetology, and metabolic diseases, rheumatology, as well as nephrology

Lectures:

During the lectures the most current European and Polish guidelines of treating internal diseases are presented

1. Treatment guidelines – Acute coronary syndromes – PCS (Polish Cardiac Society) and ESC (European Society of Cardiology) guidelines
2. Heart failure – Polish and European guidelines
3. Arrhythmias and cardiac conduction abnormalities – PCS and ESC guidelines
4. Arterial hypertension – etiology, symptoms, treatment, PSC and ESC guidelines
5. Coronary Heart Disease – treatment guidelines – PSC and ESC guidelines
6. Cardiovascular diseases in pregnancy
7. Dyslipidemia treatment
8. Guidelines of treating acute and chronic renal failure
9. Renal replacement therapy
10. PDA (Polish Diabetes Association) guidelines in treating diabetes
11. Epidemiology and diagnosis of rheumatic diseases
12. Thyroid diseases. Thyroid storm. Thyroid diseases in pregnancy
13. Systemic lupus erythematosus – clinic. Pregnancy and rheumatic diseases. The Sjörger Syndrome
14. Biological therapy in rheumatology
15. Diseases of the esophagus, stomach, and duodena
16. Diseases of the intestines
17. Diseases of the liver and bile ducts
18. Diseases of the pancreas
19. Hematology – symptoms, additional examinations, differential diagnosis
20. Anemias
21. Leukemias and lymphomas
22. Platelet function defects
23. Osteoporosis
24. Vitamins and trace elements as well as minerals in internal diseases
25. Dietary treatment in selected chronic diseases
26. Most frequent allelogical diseases – diagnosis and treatment (excluding pulmonology)

Exercise classes and seminars

During the exercise classes the student uses the knowledge acquired during lectures in a practical way. In addition the exercise classes are directed at the practical aspects of individual disease, supplementing the knowledge acquired during lectures. The student has the opportunity to accompany a doctor dealing with the patient, from the moment of admittance all the way to release from the hospital, going through each of the stages, planning, treatment, diagnosis, start, and modification of the therapy. The content of the exercise classes and seminars supplements the content of the lectures. The seminars present class content in the form of presentations and multimedia demonstrations and also serve to check the knowledge acquired by the student after a series of exercise classes on a given topic.

1. Patient's medical interview and physical examination. Specifications of each in diseases of the cardiovascular system. Selected symptoms: chest pain, palpitation, edemas, dyspnea. Selected signs
2. Basic laboratory examinations and noninvasive diagnostic examinations (RR measurement, resting ECG, radiography, Holter ECG, Holter RR, echocardiogram) Examining patients and writing down the case history
3. Coronary artery disease. Stable CAD. Symptoms, diagnosis, treatment methods. ECG interpretation, basics of echocardiography. Prevention and conservative treatment
4. Acute Coronary Syndrome. Diagnosis (laboratory, ECG, imaging) Pharmacological and procedural treatment
5. Arrhythmia. ECG diagnosis, treatment
6. Inborn and acquired heart defects. Diagnosis and treatment
7. Pulmonary embolism – pathogenesis, diagnosis and treatment
8. Diet, physical activity, cardiologic rehabilitation
9. Epidemiology and diagnosis of rheumatic diseases. Biological therapy in rheumatology
10. Examining the locomotor system and rheumatoid arthritis
11. Connective tissue diseases. Inflammatory spondyloarthropathies. Vasculitis
12. Osteoarthritis. Soft-tissue rheumatism
13. Gout and other crystal-induced arthritis. Osteoporosis
14. Diabetes, symptoms, diagnosis, classification
15. Principles of therapy of type diabetes: Treatment monitoring. Criteria of diabetes compensation. Principles of therapy of type diabetes
16. Hypoglycemia and hyperglycemia. PRN treatment
17. Glomerulonephritis, nephrotic syndrome. Chronic renal failure. Chronic renal failure treatment
18. Acute renal failure, tubulointerstitial diseases, systemic diseases
19. Acute life-threatening conditions in nephrology
20. Diagnosis of thyroid diseases. Nodular goiters. Hypothyroidism. Cancers of the thyroid. Diseases associated with hyperthyroidism.
21. Physiology of the calcium-phosphate balance. Diseases of the parathyroid glands
22. Adrenal surplus. Cushing's Syndrome, Conn Syndrome
23. Diseases of the adrenal medulla: Pheochromocytoma. Adrenal insufficiency: Addison's disease
24. Physiology of the hypothalamus and the pituitary gland. Diagnostic tests in diseases of the hypothalamus and the pituitary gland
25. Diseases of the hypothalamus and the pituitary gland
26. Diagnosis and symptomatology of hematologic diseases
27. Anemia
28. Leukemias and lymphomas – diagnosis, treatment, marrow transplant
29. Non-thrombocytopenic and thrombocytopenic purpura, coagulopathy, hypercoagulation. Platelet diseases
30. Diagnosis and treatment of diseases of the esophagus, stomach and duodena
31. Diarrhea, constipation, differential diagnosis. Intestinal diseases. Procedural and conservative methods of treatment
32. Diseases of the liver and bile ducts
33. Diseases of the pancreas
34. Allergy – diagnosis and treatment, epicutaneous and provocation testing, PRN and chronic treatment
35. Nutrition in diseases of the gastrointestinal tract

Literature

A. Basic literature:

INTERNA Szczeklika 2019. Medycyna Praktyczna
BADANIE KLINICZNE Macleoda. ed. Douglas G., Nicol F., Robertson C., wyd. Elsevier Edra Urban & Partner Wrocław 2017
EKG TO PROSTE – Hampton J., 2014, Wydawnictwo Urban & Partner
INTERNA SZCZEKLIKA – MAŁY PODRĘCZNIK 2019, Andrzej Szczeklika, Piotr Gajewski, Wydawnictwo Medycyna Praktyczna, Kraków 2017

B. J. Supplementary literature

INTERNAT HARRISONA. All volumes (I-III) Author: A. Fauci, E. Braunwald, D. Kasper, S. Hauser, D. Longo, J. Jameson, J.

Loscalzo, wydawnictwoCzelej Behavior guidelines in selected diseases e.g. European Society of Cardiology, Polish Cardiac Society, Polish Diabetes Association and others Ostre stany zagrożenia życia. K. Sosada, PZWL 2019 Ćwiczenia z elektrokardiografii. Dąbrowska B., Dąbrowski A., Bodoń W. Wyd. Medycyna Praktyczna, Kraków 1997		
Educational effects:		
Effect no	Description of an educational effect	Type of grade Type of didactic classes
Knowledge:		
W1	E.W1 Knows the environmental and epidemiologic conditions of the most common diseases	Written examination, practical written examination, presentation, oral response, discussion and solving clinical problems in groups Demonstration of medical techniques and imaging examination Independent demonstration of medical procedures under simulated conditions L (lecture) + CEX (Field-related clinical exercises) SimEx – Exercises under simulated conditions
W2	E.W7 Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment regarding the most common internal diseases and their complications	
W3	E.W8 Knows and understands the course and symptoms of the ageing process as well as principles of a complete geriatric evaluation and interdisciplinary care regarding an elderly patient	
W4	E.W39 Knows the types of biological materials used in laboratory diagnosis and methods of collecting material for examination	
W5	E.W41 Is familiar with the benefits and limitations of laboratory examinations in emergency life threatening conditions	
W6	E.W40 Knows the theoretical and practical basis of laboratory diagnosis	
W7	E.W42 Can list the recommendations for implementing supervised therapy	
Abilities:		
U1	E.U1 Conducts a medical interview in an adult patient	Written examination, practical written examination, presentation, oral response, discussion and solving clinical problems in groups Demonstration of medical techniques and imaging examination Independent demonstration of medical procedures under simulated conditions L (lecture) + EX (Field-related non-clinical exercises) SimEx – Exercises under simulated conditions Seminars
U2	E.U3 Conducts a full and targeted physical examination of an adult patient	
U3	E.U7 Evaluates the general condition, state of consciousness, and state of awareness of the patient	
U4	E.U13 Evaluates the patient's somatic and mental state	
U5	E.U14 Recognizes direct life-threatening conditions	
U6	E.U16 Plan diagnostic, therapeutic and preventive treatment	
U7	E.U17 Conducts an analysis of possible harmful side effects of individual medications and the interactions between these medications	
U8	E.U18 Suggests and individual approach to the therapeutic guidelines in force as well as other treatment methods in face of an unsuccessful or	

	contradictive standard therapy	
U9	E.U20 Qualifies a patient for home-based or hospital treatment	
U10	E.U29 Performs the basic medical procedures and interventions	
U11	E.U32 Plans specialized consultations	
U12	E.U38 Keeps the patient's medical documentation	
Social competencies:		
K1	Is aware of his own diagnostic and therapeutic limitations, educational needs, plans his educational activities	
K2	Can work in a professional team, in a multi-cultural and multi-national community	
K3	Can establish and maintain a deep, respectful contact with the patient	
K4	Protects patient confidentiality and all patient rights	

Criteria of evaluating educational effects			
Educational effect	For a grade of 3	For a grade of 4	For a grade of 5
W1	The final examination consists of 100 multiple choice questions		
W2	In order to receive a credit for the examination a student must complete at least 61% of		
W3	it correctly		
W4	Insufficient (2.0) – below 61%		
W5	Sufficient (3.0) – 61-69%		
W6	Satisfactory (3.5) – 70-76%		
W7	Good (4.0) – 77-84%		
U1	Very Good (4.5) – 85-92%		
U2	Excellent (5.0) – 93-100%		
U3	A final credit for the subject is an arithmetic average of all partial grades received from		
U4	individual tests (test questions)		
U5	Excellent – 4.75-5.0		
U6	Very Good – 4.25-4.74		
U7	Good – 3.75-4.24		
U8	Satisfactory – 3.25-3.74		
U9	Sufficient – 2.1-3.24		
U10	The practical examination is based on taking patient history, examining the patient,		
U11	suggesting diagnostic and therapeutic treatment for 2 patients		
U12	;		
K1			
K2			
K3			
K4			