





Online learning (synchronous)	15	5			15									
Distance learning (asynchronous)														
<b>Summer Semester</b>														
Direct (contact) education					15									
Online learning (synchronous)	15	5			15									
Online learning (asynchronous)														
<b>TOTAL per year:</b>														
Direct (contact) education					30									
Online learning (synchronous)	30	10			30									
Online learning (asynchronous)														
<b>Educational objectives (max. 6 items)</b> C1. The purpose of education is to familiarize students with the pathogenesis, symptomatology, and treatment of internal diseases C2. Knowing preventive activities against formation of internal medicine C3. Keeping medical records. C4. Students should possess the ability to efficiently collect medical history, physical examination, proper technique with the correct interpretation of the clinical examination ascertained deviations from the norm C5. Students also owe to possess knowledge of basic laboratory tests and diagnostic procedures, including internal medicine with knowledge of the results of variations in the underlying disease entities C6. Students should possess the ability to carry out differential diagnosis, perform simple diagnostic tests with the diagnosis, therapy planning of the basic units of internal diseases														
<b>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</b>														
Number of course education result	Number of major education result	Student who completes the module/course knows/is able to			Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>								
<b>K01</b>	E.W1.	knows the environmental and epidemiological conditions of internal diseases			Oral or written answer	L/SE/CC								
<b>K02</b>	E.W7.	knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedure in relation to the most common internal diseases			Oral or written answer / test / analysis of clinical cases	L/SE/CC								
<b>K03</b>	E.W11.	knows and understands the risks associated with the hospitalization of elderly people			Oral or written answer / test / analysis of clinical cases	L/SE/CC								



<b>K04</b>	E.W25.	knows the possibilities of modern cancer therapy (including multimodal therapy), perspectives of cell and gene therapies and their undesirable effects	Oral or written answer / test	L/SE/CC
<b>K05</b>	E.W34.	knows and understands the causes, symptoms, principles of diagnosis and therapeutic and prophylactic treatment in the most common bacterial, viral, parasitic and mycotic diseases, including pneumococcal infections, hepatitis, acquired AIDS immunodeficiency, sepsis and hospital infections	Oral or written answer / test / analysis of clinical cases	L/SE/CC
<b>K06</b>	E.W39.	knows the types of biological materials used in laboratory diagnostics and the principles of sampling for testing	Oral or written answer / test / analysis of clinical cases	L/SE/CC
<b>S01</b>	E.U1.	conducts medical history with an adult patient	assessment of practical skills	CC
<b>S02</b>	E.U3.	carries out a full and targeted physical examination of an adult patient	assessment of practical skills	CC
<b>S03</b>	E.U7.	evaluates the general condition, the state of consciousness and awareness of the patient	Oral or written answer / assessment of practical skills	CC
<b>S04</b>	E.U12.	performs differential diagnosis of the most common adult diseases	Oral or written answer / assessment of practical skills	CC
<b>S05</b>	E.U14.	recognizes states of life threatening condition	Oral or written answer / assessment of practical skills	CC
<b>S06</b>	E.U16.	plans diagnostic, therapeutic and preventive measures	Oral or written answer / test	CC



<b>S07</b>	E.U24.	interprets laboratory tests and identifies the reasons for the deviations	Oral or written answer / test / analysis of clinical cases	CC
<b>K 01</b>		Willingly participates in care of patients		
<b>K2</b>		cooperates in a group of medical staff		
<b>K3</b>		actively participates in internal diseases prophylaxis		

\*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:  
communication of knowledge, skills or forming attitudes:

Knowledge: 5

Skills: 5

Forming attitudes:5

**Student's amount of work (balance of ECTS points)**

<b>Student's workload</b> (class participation, activity, preparation, etc.)	<b>Student Workload (h)</b>
1. Contact hours:	30
2. Online learning hours (e-learning):	70
3. Student's own work (self-study):	30
Total student's workload	130
<b>ECTS points for module/course</b>	4
Comments	

**Content of classes** (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

**Lectures**

WINTER SEMESTER (15 hours)

1. Introduction: why and to what extent a dentist needs knowledge in the field of internal medicine.
2. Rules for collecting medical history.
3. Basics of physical examination.
4. Symptoms and diagnostics of respiratory diseases.
5. Symptoms and diagnostics of gastrointestinal diseases.
6. Symptoms and diagnostics of heart disease.
7. Life-threatening conditions in heart disease, cardiogenic shock.

SUMMER SEMESTER (15 hours)

8. Symptomatic syndromes and diagnosis of kidney diseases.
9. Selected issues of infectious diseases, including hepatitis B and C infection.
10. Symptoms and diagnostics of rheumatological disorders.
11. Diseases of endocrine glands, with particular emphasis on diabetes.
12. Symptoms and diagnostics of coagulation disorders.
13. Diagnosis and symptoms of allergic diseases, anaphylactic shock.



14. Symptoms and diagnostics of hematopoietic diseases.

**Seminars**

WINTER SEMESTER (15 hours)

1. Introduction: why and to what extent a dentist needs knowledge in the field of internal medicine.

Clinical cases.

2. Rules for collecting medical history. Clinical cases.

3. Basics of physical examination. Clinical cases.

4. Symptoms and diagnostics of respiratory diseases. Clinical cases.

5. Symptoms and diagnostics of gastrointestinal diseases. Clinical cases.

6. Symptoms and diagnostics of heart disease. Clinical cases.

7. Life-threatening conditions in heart disease, cardiogenic shock. Clinical cases.

SUMMER SEMESTER (15 hours)

8. Symptomatic syndromes and diagnosis of kidney diseases. Clinical cases.

9. Selected issues of infectious diseases, including hepatitis B and C infection. Clinical cases.

10. Symptoms and diagnostics of rheumatological disorders. Clinical cases.

11. Diseases of endocrine glands, with particular emphasis on diabetes. Clinical cases.

12. Symptoms and diagnostics of coagulation disorders. Clinical cases.

13. Diagnosis and symptoms of allergic diseases, anaphylactic shock. Clinical cases.

14. Symptoms and diagnostics of hematopoietic diseases. Clinical cases.

**Practical classes**

WINTER SEMESTER (30 hours)

1. Organization of the Internal Ward. Interviewing and comprehensive health history taking. Principal symptoms of diseases: pain, fainting, dizziness, dyspnoea, edema, heart palpitation.

2. Medical history taking. Social interview, family history, epidemic diseases, stimulants, medications. Simplifying evaluation of the patient general status (consciousness, complaints, vital signs).

3. Assessment of the patient's general health status (vital signs, cognitive and psychological status, nutritional status). Skin assessment. Examination of head, neck and lymph nodes.

4. Examination of the chest. Types of chest. Topography of chest organs. Chest percussion and auscultation.

5. Examination of the respiratory system. General palpation of the chest wall. Percussion of lungs. Breath sounds.

6. Chest examination continuation: the heart. Inspection and palpation of the heart region. Cardiac apex impulse.

7. The cardiac examination. Heart sounds and murmurs, heart rate.

8. Examination the vascular system. Blood pressure measurement. Arterial pulse characteristics. Physical examination of limb vessels. Symptoms of deep vein thrombosis and critical limb ischemia. Oedemas.

9. Abdomen examination – quadrants and regions of the abdomen, common findings on inspection, auscultation and palpation of the abdomen, causes of abdominal pain and distension.

10. Abdomen examination – locations of abdominal organs, examination of liver, spleen, pancreas. Gut sounds. Signs of peritoneal irritation.

11. Examination of genito-urinary system.

12. The physical examination of the spine and lower extremities, special maneuvers for examination of the spine, knee and ankle.

13. Neurologic examination – cranial nerves. Examination of touch, sharp, position and vibration sensation. Deep tendon reflexes examination. Tests of coordination. Abnormal gaits.

14. Summary and repetition part 1.

15. Summary and repetition part 2.

SUMMER SEMESTER (30 hours)

1. Respiratory disorders, part 1. Upper respiratory tract infections. Asthma vs COPD. Pulmonary function tests.

2. Respiratory disorders, part 2. Lower respiratory tract infections. Pneumonia. Pneumothorax .



Hydrothorax. Lung abscess. Tuberculosis. Lung cancer. Radiological and diagnostic procedures.

3. Circulatory disorders, part. 1. Valvular heart disease. Congenital and acquired heart defects. Endocarditis, myocarditis and pericarditis. Systemic hypertension, primary and secondary arterial hypertension.
4. Circulatory disorders, part. 2. ECG. Atherosclerosis. Ischemic heart disease. Myocardial infarction.
5. Circulatory disorders, part. 3. Acute and chronic circulatory insufficiency. Cardiac arrhythmia. Thrombophlebitis and thromboembolism.
6. Gastrointestinal tract disorders, part 1. Patient with abdominal pain, dysphagia, vomiting, constipation, diarrhea. Acute abdomen. Gastrointestinal bleeding. GERD. Inflammatory bowel diseases. Irritated bowel syndrome.
7. Gastrointestinal tract disorders, part 2. Acute and chronic hepatitis. Liver cirrhosis. A patient with jaundice. Pancreatitis. Gallstone disease. GI tract cancers.
8. Urinary tract disorders. Symptoms, urine analysis, ultrasound examination. \approach to patient with hematuria and proteinuria. Glomerular diseases. Renal stones. Acute kidney failure. Chronic kidney disease. Renal replacement therapy.
9. Endocrine disorders, part 1. Diabetes mellitus, Hypoglycemia, comas. OGTT and other functional tests. Complications of diabetes mellitus.
10. Endocrine disorders, part 2. Disorders of pituitary, thyroid and suprarenal glands.
11. Endocrine disorders, part 3. Osteoporosis – diagnosis, prevention and treatment. . Parathyroid glands disorders: the role of parathormone, calcitonin and vitamin D in the homeostasis of calcium.
12. Arthrosis and arthritis. Systemic collagenous diseases: lupus, sclerodermia, rheumatoid arthritis.
13. Hematology: anemia, bleeding diathesis, leukemias, lymphadenopathy.
14. Allergy, drug intolerance, shock.
15. Summary and repetition.

#### Other

1.

2.

3.

*etc. ...*

#### Basic literature (list according to importance, no more than 3 items)

1. G. Herold „Internal medicine”,
2. „Harrison’s Principles of Internal Medicine”
3. Macleod's Clinical Examination G. Douglas, C. Robertson..

#### Additional literature and other materials (no more than 3 items)

1.

2.

3.

#### Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

Multimedia seminar room with a projector, internal medicine department equipment, access to ultrasound equipment, computers

#### Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Completing subjects from previous years of study. The student should know the anatomy and physiology of the urinary system and the principles of subjective and physical examination. Students are required to come to classes prepared theoretically in the subject of a given topic - preparation for classes can be verified by a test or oral answer, and lack of preparation will result in failure to complete the classes, which is identical with the absence from the classes.

**Conditions to receive credit for the course** (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and



requirements to be met by the student to pass it and criteria for specific grades)  
The condition of passing the course is the presence at all classes and obtaining a positive assessment from the teacher. All absences must be made up, including rector's and dean's hours. The grade will be issued on the basis of the teacher's recorded activity: case presentation, participation in the discussion, observation, oral answer, and test. Passing classes is a condition of admission to the exam.

<b>Grade:</b>	<b>Criteria</b> (only for courses/modules ending with an examination)
Very Good (5.0)	Attendance at all classes. Knowledge of issues related to pathogenesis, symptomatology, treatment and prevention of internal diseases. The student interprets medical research, makes a diagnosis, performs differential diagnosis, and proposes treatment. Answers correctly to 95 % of asked questions.
Good Plus (4.5)	Attendance at all classes. Knowledge of issues related to pathogenesis, symptomatology, treatment and prevention of internal diseases. The student interprets medical research, makes a diagnosis, performs differential diagnosis, and proposes treatment. Answers correctly to 90 % of asked questions.
Good (4.0)	Attendance at all classes. Knowledge of issues related to pathogenesis, symptomatology, treatment and prevention of internal diseases. The student interprets medical research, makes a diagnosis, performs differential diagnosis, and proposes treatment. Answers correctly to 80 % of asked questions.
Satisfactory Plus (3.5)	Attendance at all classes. Knowledge of issues related to pathogenesis, symptomatology, treatment and prevention of internal diseases. The student interprets medical research, makes a diagnosis, performs differential diagnosis, and proposes treatment. Answers correctly to 70 % of asked questions.
Satisfactory (3.0)	Attendance at all classes. Knowledge of issues related to pathogenesis, symptomatology, treatment and prevention of internal diseases. The student interprets medical research, makes a diagnosis, performs differential diagnosis, and proposes treatment. Answers correctly to 60 % of asked questions.
	<b>Criteria</b> (only for courses/modules ending with e credit)
Credit	

<b>Grade:</b>	<b>Criteria</b> (examination evaluation criteria)
Very Good (5.0)	



Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
Unit realizing the subject	Department of Nephrology and Transplantation Medicine
Unit address	50-556 Wrocław, ul. Borowska 213
Telephone	71 733 2500
E-Mail	nefrologia@umed.wroc.pl

Person responsible for module	<b>Prof dr hab. Magdalena Krajewska</b>
Coordinator	
Telephone	71 733 2500
E-Mail	magdalena.krajewska@umed.wroc.pl

<b>List of persons conducting specific classes</b>				
<b>Full name</b>	<b>Degree/scientific or professional title</b>	<b>Discipline</b>	<b>Performed profession</b>	<b>Form of classes</b>
<b>Dorota Kamińska</b>	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
<b>Mariusz Kusztal,</b>	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
<b>Mirosław Banasik,</b>	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
<b>Krzysztof Letachowicz,</b>	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
<b>Tomasz Gołębiowski,</b>	MD, PhD	Internal medicine, nephrology, clinical	Medical doctor	Classes, lectures, seminars





		transplantation		
<b>Sławomir Zmonarski,</b>	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
<b>Maciej Szymczak,</b>	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
<b>Andrzej Konieczny</b>	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
<b>Katarzyna Jakuszko,</b>	MD, PhD	Internal medicine, nephrology	Medical doctor	Classes, lectures, seminars
<b>Hanna Augustyniak - Bartosik</b>	MD, PhD	Internal medicine, nephrology, clinical transplantation	Medical doctor	Classes, lectures, seminars
<b>Dagna Rukasz,</b>	MD	internal medicine	Medical doctor	Classes, lectures, seminars
<b>Paweł Poznański</b>	MD		Medical doctor	Classes, lectures, seminars

<b>Name of unit teaching course:</b>	<b>Department of Heart Diseases</b>
Address	<b>ul. Borowska 213, 50-556 Wrocław</b>
Phone	<b>71 733 11 12</b>
E-mail	<b>wz-19@umed.wroc.pl</b>

<b>Person responsible for course:</b>	<b>dr n.med. Wojciech Zimoch</b>
Phone	<b>693334929</b>
E-mail	<b>wojciech.zimoch@umed.wroc.pl</b>

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Wojciech Zimoch	MD, PhD	internal medicine	physician	Classes, lectures, seminars
Krystian Josiak	MD, PhD	internal medicine	physician	Classes, lectures,



				seminars
Michał Kosowski	MD, PhD	internal medicine	physician	Classes, lectures, seminars
Stanisław Tubek	MD, PhD	internal medicine	physician	Classes, lectures, seminars
Piotr Niewiński	MD, PhD	internal medicine	physician	Classes, lectures, seminars

<b>Name of unit teaching course:</b>	Department and Clinic of Internal, Occupational Diseases, Hypertension and Clinical Oncology
Address	Borowska 213; 50-556 Wrocław
Phone	71-7364000
E-mail	<a href="mailto:kcj@usk.wroc.pl">kcj@usk.wroc.pl</a>

<b>Person responsible for course:</b>	Anna Jodkowska, MD, PhD
Phone	71-7364000
E-mail	<a href="mailto:anna.jodkowska@umed.wroc.pl">anna.jodkowska@umed.wroc.pl</a>

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Adrian Doroszko	MD, PhD	Internal diseases, cardiology	physician	Classes, lectures, seminars
Anna Jodkowska	MD, PhD	Internal diseases, endocrinology, hypertensiology	physician	Classes, lectures, seminars
Maciej Podgórski	MD	Internal diseases, cardiology	physician	Classes, lectures, seminars
Helena Martynowicz	MD, PhD	Internal diseases, hypertensiology	physician	Classes, lectures,



				seminars
Jakub Gawryś	MD	Internal diseases, in training	physician	Classes, lectures, seminars
Jakub Mochol	MD	Internal diseases, in training	physician	Classes, lectures, seminars
Damian Gajecki	MD	Internal diseases, in training	physician	Classes, lectures, seminars
Siddarth Agrawal	MD, PhD	Internal diseases, in training	physician	Classes, lectures, seminars
Prof. Anna Skoczyńska	Prof. Med	Internal diseases, hypertensiology	physician	Classes, lectures, seminars
Anna Szymańska- Chabowska	MD, PhD	Internal diseases, hypertensiology	physician	Classes, lectures, seminars
Arkadiusz Derkacz	Prof. Med	Internal diseases, cardiology Angiology	physician	Classes, lectures, seminars

<b>Name of unit teaching course:</b>	Department of Gastroenterology and Hepatology			
Address	ul. Borowska 213 Wrocław,			
Phone	71 733 21 20			
E-mail	<a href="mailto:robert.dudkowiak@gastro.am.wroc.pl">robert.dudkowiak@gastro.am.wroc.pl</a>			
<b>Person responsible for course:</b>	<b>Prof. Elżbieta Poniewierka</b>			
Phone	71 733 21 20			
E-mail	<a href="mailto:robert.dudkowiak@gastro.am.wroc.pl">robert.dudkowiak@gastro.am.wroc.pl</a>			
<b>Wykaz osób prowadzących poszczególne zajęcia:</b>				
<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Elżbieta Poniewierka	Prof. Med	Internal diseases,	physician	Classes, lectures, seminars
Agata Mulak	MD, PhD	gastroenterology	physician	Classes, lectures,



				seminars
Dorota Waśko-Czopnik	MD, PhD	Internal diseases,	physician	Classes, lectures, seminars
Katarzyna Neubauer	MD, PhD	gastroenterology	physician	Classes, lectures, seminars
Radosław Kempirski	MD, PhD	Internal diseases, gastroenterology	physician	Classes, lectures, seminars
Ewa Waszczuk	MD, PhD	Internal diseases	physician	Classes, lectures, seminars
Adam Smereka	MD, PhD	Internal diseases	physician	Classes, lectures, seminars
Barbara Woźniak-Stolarska	MD, PhD	Internal diseases	physician	Classes, lectures, seminars
Robert Dudkowiak	MD, PhD	Internal diseases	physician	Classes, lectures, seminars
Monika Kukulska	MD, PhD	Internal diseases	physician	Classes, lectures, seminars
Izabela Smoła	MD,	Internal diseases	physician	Classes, lectures, seminars
Wojciech Pisarek	MD,	Internal diseases	physician	Classes, lectures, seminars

**Date of Syllabus development**

**Syllabus developed by**

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**Signature of Head of teaching unit**

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Signature of Faculty Dean

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