

<i>Name of the course</i>	<b>Internal medicine</b>			<b>Code</b>	
<i>Type of study program Cycle</i>	Integrated University Study, Medicine			<b>Year of study</b>	IV
<i>Credits (ECTS) :</i>	<b>20</b>	<i>Semester</i>	VII	Number of hours per semester (1+e+s)	390 (91+230+69)
<i>Status of the course:</i>	mandatory	<i>Preconditions:</i>	Passed all exams of the 3 <sup>rd</sup> year	<i>Comparative conditions:</i>	
<i>Access to course:</i>	4 <sup>th</sup> year medical students			<i>Hours of instructions:</i>	According to schedule
<i>Course teacher:</i>	Professor Milenko Bevanda, MD, PhD				
<i>Consultations:</i>	As agreed				
<i>E-mail address and phone number:</i>	milenkobevanda@gmail.com				
<i>Associate teachers</i>	<p><b>Domestic teachers:</b></p> <p>Professor Monika Tomić, MD, PhD  Professor Milenko Bevanda, MD, PhD  Professor Žarko Šantić, MD, PhD  Professor Ivica Brizić, MD, PhD  Professor Danijel Pravdić, MD, PhD  Assistant professor Mirjana Vasilj, MD, PhD  Assistant professor Slavica Ćorić, MD, PhD  Emil Babić, MD, PhD  Zrinko Prskalo, MD, PhD  Kristina Galić, MD, PhD  Darja Pavlović Rozić, MD, MSc  Darko Markota, MD, MSc  Mile Volarić, MD, MSc  Maja Karin, MD, MSc  Ivica Markota, MD, MSc  Vedrana Gačić, MD, MSc  Fila Raguž, dr.med.  Josip Petrović, dr.med.  Pero Marić, dr.med.  Sanja Selak, dr.med.  Danijela Ćuk, dr.med.  Branka Klarić, dr.med.  Boro Janjoš, dr.med.  Tanja Zovko, dr.med.</p>				

	<p><b>Visiting teachers:</b></p> <p>Professor Milan Kujundžić, MD, PhD  Professor Davor Štimac, MD, PhD  Professor Suzana Kukulj, MD, PhD  Professor Igor Aurer, MD, PhD  Professor Darko Kaštelan, MD, PhD  Professor Branimir Anić, MD, PhD  Professor Nikola Đaković, MD, PhD  Assistant professor Boris Starčević, MD, PhD  Doc. dr. sc. Eduard Galić, MD, PhD</p>
<i>Consultations:</i>	As agreed
<i>E-mail address and phone</i>	
<p><b><i>The aims of the course:</i></b></p>	<p>The objectives of this course are to introduce students to:</p> <ul style="list-style-type: none"> <li>- prevention of internal diseases</li> <li>- etiologic and pathogenetic processes leading to the occurrence of internal diseases</li> <li>- practical skills needed for clinical examination</li> <li>- laboratory and diagnostic procedures in internal medicine</li> <li>- diagnostic algorithms in internal medicine</li> <li>- planning and implementation of specific treatment of internal diseases and monitoring treatment outcomes.</li> </ul>
<p><b><i>Learning outcomes (general and specific competences):</i></b></p>	<p><u>General outcomes:</u>  Applying the independent learning through the study in the way of critical and self-critical questioning of scientific truth.</p> <p>Applying the theoretical knowledge in practice.</p> <p>Remembering the possession of personal qualities (team work and personal contribution, interest, active listening, and building positive relationships with members of the group).</p> <p><u>Specific outcomes:</u>  Applying theoretical knowledge in internal medicine.</p> <p>Understanding the clinical presentations and syndromes in internal medicine.</p> <p>Applying practical skills, specific laboratory tests and diagnostics needed for clinical examination in internal medicine.</p> <p>Remembering the invasive and interventional therapeutic procedures in internal medicine.</p> <p>Understanding the modern diagnostic algorithms in internal medicine</p>

	and analyzing the test results.			
	Applying the specific internal-medicine therapy, analyzing the results and outcomes of treatment.			
<b>Course content (Syllabus):</b>	<p>Course content: lectures, seminars and exercises.</p> <p>Every day classes begin with exercises during 3 hours with associate teachers. Before exercises students have nursing practice.</p> <p>The exercises are held at the Department of Internal Medicine and Department of Pulmonary Diseases.</p> <p>After the exercises students have seminars and lectures held at the Medical School.</p>			
<b>Format of instruction (mark in bold)</b>	<b>Lectures</b>	<b>Exercises</b>	<b>Seminars</b>	<b>Independent assignments</b>
	Consultations	Work with mentor	Field work	Other
	Remarks:			
<b>Student responsibilities</b>	Students are required to attend all forms of course and presence will be check by roll call or students will have to sign the previously prepared forms.			
<b>Screening student work (mark in bold)</b>	Class attendance	Class participations	<b>Seminar essay</b>	<b>Practical training</b>
	<b>Oral exam</b>	<b>Written exam</b>	Continous assesment	Essay
<b>Detailed evaluation within a European system of points</b>				
<b>STUDENTS RESPONSIBILITIES</b>	<b>HOURS</b>	<b>PROPORTIONS OF ECTS CREDITS</b>	<b>PROPORTION S OF MARK</b>	
Class attendance and participations	30	1	0%	
Seminar essay	30	1	0%	
Practical work	30	1	5%	
Written exam – part I	90	3	15%	
Written exam – part II	90	3	15%	
Written exam – part III	90	3	15%	
Oral exam	240	8	50%	
Further clarification:				
Students can approach to the exam during the Test deadlines.				
Each student will take the exam in three ways:				

1. Written Exam – 3 Mandatory Colloquia. These parts of the exam will be carried out after the classes in the field of Internal medicine, as it's provided in the Class calendar. The results of this part of the exam will have a significant impact on the final grade from the course of Internal Medicine.

2. The practical part of the exam - will be carried out according to the previous practical work during the classes. Practical part of the exam is carried out under the supervision of faculty teachers or assistants with a PhD or MSc degree or with the degree of subspecialization.

3. The oral part of the exam is carried out in front of the teachers of the Faculty of Medicine, University of Mostar. Results of the written and practical part of the exam will be considered in the final evaluation.

According to the regulations of the study, final grade is obtained:

A = 91-100% 5

B = 79 to 90% 4

C = 67 to 78% 3

D = 55 to 66% 2

F = 0 to 54% 1

<b>Required literature:</b>	<ol style="list-style-type: none"> <li>1. B. Vrhovac et al.: Interna medicina, Medicinska naklada, Ljevak 2008.</li> <li>2. Ž. Ivančević ur. Principi interne medicine: Harrison, 3. Hrvatsko izdanje, Placebo, Split, 2007.</li> <li>3. Čustović F.: Anamneza i fizikalni pregled, Školska knjiga, Zagreb, 2000.</li> <li>4. Šamija, Vrdoljak, Krajina: Klinička onkologija, Medicinska naklada, Zagreb, 2006.</li> </ol>
<b>Optional literature:</b>	<ol style="list-style-type: none"> <li>1. M. Bergovec: Praktična elektrokardiografija, Školska knjiga, Zagreb 1998.</li> <li>2. Barić, Lj et al: Elektrokardiogram u praksi, Lek d. o. o., Zagreb 2003.</li> <li>4. D. Šimić et al: Bolesti sluznice, Medicinska naklada Zagreb, 2012.</li> </ol>
<b>Additional information about the course</b>	<p>Monitoring methods of teaching quality:</p> <ul style="list-style-type: none"> <li>- student questionnaire</li> <li>- quality analysis by students and teachers</li> <li>- exam results analysis</li> <li>- report of the office for teaching quality</li> <li>- external evaluation (visit of team for quality control)</li> </ul>

Annexes: calendar classes

<b><i>The number of teaching units</i></b>	<b>TOPICS AND LITERATURE</b>
<b>I.</b>	Title: Diseases of the heart valve and congenital defects. Myocarditis and cardiomyopathy
	Short description: Symptoms and methods of examinations in cardiology
	Literature: required and optional
<b>II.</b>	Title: Treatment of Heart Failure. Ischemic heart disease, acute coronary syndrome, chronic coronary artery disease
	Short description: ECG Recording - Normal ECG, hypertrophy, preexcitation blocks. ECG in coronary heart disease, pericarditis. Clinical recognition and approach to a coronary patient. Emergency conditions in cardiology
	Literature: required and optional
<b>III.</b>	Title: Treatment of rhythm disturbances. Disease of peripheral arteries and veins
	Short description: ECG Tachycardia and Bradycard Rhythm Disorders
	Literature: required and optional
<b>IV.</b>	Title: Chronic obstructive pulmonary disease. Pneumonia. TBC of lungs.
	Short description: Examination methods in pulmology. Diseases of interstitium and diaphragm
	Literature: required and optional
<b>V.</b>	Title: Carcinoma of the bronchus and lung.
	Short description: Pulmonary hypertension, pulmonary embolism. Emergency conditions in pulmonology. Pleural and mediastinal diseases
	Literature: required and optional
<b>VI.</b>	Title: Diagnostic approach in gastroenterology; Ulcus. Gastroesophageal reflux. Inflammatory bowel disease.
	Short description: Abdominal pain. Malabsorption. Diarrhea. Opstipatio.
	Literature: required and optional
<b>VII.</b>	Title: Hemochromatosis. Wilson's disease. Primary billiary cirrhosis. Bilius lithiasis. Viral hepatitis. Liver cirrhosis. Liver transplantation
	Short description: Portal Hypertension. Ascites. Spontaneous bacterial peritonitis
	Literature: required and optional
<b>VIII.</b>	Title: Gastrointestinal bleeding. Functional intestinal diseases. Pancreatitis
	Short decription: Tumors of the esophagus, stomach, pancreas. Colorectal cancer. Liver and biliar tumor
	Literature: required and optional
<b>IX.</b>	Title: Diagnosis of Renal Diseases. Chronic renal insufficiency
	Short description: Acute Renal Insufficiency. Replacement therapy for renal insufficiency. Inflammation of the urinary system
	Literature: required and optional
<b>X.</b>	Title: Glomerular disease. Arterial hypertension. Tubulointerstitial diseases

	Short description: Secondary Glomerular Disease. Nephrolithiasis, kidney tumors.
	Literature: required and optional
<b>XI.</b>	Title: The hematopoetic system. Transfusiology.
	Short description: Diagnostic Methods in Hematology.
	Literature: required and optional
<b>XII.</b>	Title: Hemostasis disorders. Myeloic diseases. Lymphocytic diseases.
	Short description: Hemorrhagic Diathesis, Anticoagulant Treatment, Thrombophilia. Granulocytopenia, granulocytosis, eosinophilia, erythrocytosis, thrombocytosis. Increased lymph node, lymphocytosis. Anemia
	Literature: required and optional
<b>XIII.</b>	Title: Introduction to Oncology, etiology and Tumor Epidemiology. Cytostatic Therapy. Radiotherapy, hormone therapy
	Short description:
	Literature: required and optional
<b>XIV.</b>	Title: Multimodal approach to treatment of oncological patients, role of GP, basics of tumor diagnostics, TNM tumor classification. Tumor Biology, Cancerogenesis - tumor etiology
	Short description: Breast cancer, lung cancer. Colon cancer, gynecological tumors. Tumor markers, laboratory. Diagnostics in oncology, treatment of tumors and unwanted consequences of treatment, care for a dying patient with cancer
	Literature: required and optional
<b>XV.</b>	Title: Tumor Immunology, reaction of organism to the tumor, the tumor and the interrelationships of the organism. Combined approach in cancer treatment
	Short description: Urogenital tumors, prevention of oncological diseases, immunotherapy. Oncogene, cell division control, tumor growth kinetics. Metastasis process, tumor circulation, tumor metabolism
	Literature: required and optional
<b>XVI.</b>	Title: Introduction to Endocrinology. Thyroid diseases. Diseases of the adrenal cortex
	Short description: The Importance of Laboratory in Endocrinology.
	Literature: required and optional