Name of the course	Internal Medicine		Code	MSE403		
Type of study program:	Integrated University Study program, Medicine		Year of study:	4		
Credits (ECTS):	19.5	Semester:	VII	Number of hours per semester (l+e+s)	340 (65+80+195)	
Status of the course:	obligatory	Preconditions:	Passed all exams of the 3 <sup>rd</sup> year	Comparative conditions:	/	
Access to course:	Fourth year stu	udents		Hours of instructions:	According to schedule	
Course teacher:	I	Assn. professor Emil Babić, MD, PhD				
Consultations:	I	As agreed				
E-mail address and phone	number: 🧧	emil.babic@yahoo	.com + 387 63	<u>790 044</u>		
		Professor Milan Kujundžić, MD, PhD Professor Davor Štimac, MD, PhD Professor Suzana Kukulj, MD, PhD Professor Suzana Kukulj, MD, PhD Professor Igor Aurer, MD, PhD Professor Darko Kaštelan, MD, PhD Professor Branimir Anić, MD, PhD Professor Edvard Galić, MD, PhD Professor Željko Puljiz, MD, PhD Assistant professor Mirjana Vasilj, MD, PhD Assistant professor Ivanka Mikulić Assistant professor Boris Starčević, MD, PhD Assn.prof. Ante Bogut, MD Kristina Galić, MD, PhD Fila Raguž, MD Sanja Selak, MD Ante Mandić, MD Ivan Tomić, MD Ivan Sarić, MD Ivan Bešlić, MD				
E-mail address and phone		6.4.1		1		
I ne aims of the course:	<ul> <li>The objectives of this course are to introduce students to: <ul> <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></li></ul>					
(general and specific competences):	<ul> <li><u>General outcomes:</u> <ul> <li>Applying the independent learning through the study in the way of critical and self-critical questioning of scientific truth.</li> <li>Applying the theoretical knowledge in practice.</li> <li>Demonstrating the possession of personal qualities (team work and personal contribution, interest, active listening, and building positive relationships with members of the group).</li> </ul> </li> <li><u>Specific outcomes:</u> <ul> <li>Applying theoretical knowledge in internal medicine.</li> <li>Understanding and recognizing the clinical presentations and syndromes in internal medicine.</li> </ul> </li> </ul>					

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	- Applying practical skills, specific laboratory tests and diagnostics needed for clinical examination in internal medicine						
	<ul> <li>Describing the invasive and interventional therapeutic procedures in internal</li> </ul>						
	medicine.						
	test results.						
	- Applying the specific internal-medicine therapy, analyzing the results and outcomes of treatment.						
Course content	Course content: lectures, seminars and exercises.						
(Syllabus):	Every day classes begin with exercises during 3 hours with associate teachers.						
	Before exercises students have nursing practice. The exercises are held at the Department of Internal Medicine and Department of						
	Pulmonary Diseases. After the exercises students have seminars and lectures held						
	at the Medical School. The list of teaching units is provided below.						
Format of instruction: (mark in hold)	Lectures	Exercises (clinical Seminars Independer practicals)			Independent		
	Consultations	sultations Work with mentor		Field work		Other	
	Pomarka:						
<u>Standard</u>	Students are reasined	4 a . a 4 4 a m . d . e	11 former of our			ha ahaala haa aali	
Siudeni responsibulites:	call or students will ha	ave to sign	the previousl	y prepared forms	3 W111	be check by foll	
Screening student work (mark in bold)	Class attendance	ance Class participations Ser		Seminar essay		Practical training	
	Oral exam	Writter	n exam	Continuous assessment		Essay	
Detailed evaluation within	a European system of p	points					
STUDENTS	HOURS		PROPORTI	ONS OF	PRO	OPORTIONS	
RESPONSIBILITIES			ECTS CRE	DITS	OF	MARK	
Class attendance and	340	340		11.3		0%	
participations				0.5		00/	
Seminar essay	15	15		0.5		0%	
Written exam	120		4		45%		
Practical exam	30		1		10%		
Ural exam	80		2.7		45%		
Total	585		19.5		1009	100%	
Further clarification:							
The internal medicine exam	n consists of three parts:	written,	practical and	oral.			
The final grade is obtained	as a weighting of the gra	des from	the practical ex	am (10% of the c	made	written exam	
(45% of the grade), and ora	al exam (45%).		the practical ex	and (10% of the §	static)	, written exam	
(15% of the grade), and of	a chuin (1570).						
The written exam consists	of 50 test-questions with	n one corre	ect answer. Ac	cording to the Ru	ileboc	ok on Studying	
at the University of Mostar	grades are assigned as	follows:		U		, ,	
0-54% insufficient (1);							
55-66% sufficient (2);							
67-78% good (3);							
79- 90% (very good 4);							
91-100% excellent (5).							
After passing the written pa and clinical status and dete	art, a practical exam foll rmining the correct diag	lows. The gnostic and	practical exam l therapeutic al	consists of takin gorithm.	ıg pati	ient anamnesis	
After passing the practical exam, the oral part follows. The oral exam is based on the recommended literature.							
Required literature:	1. Kumar and C 2. Jameson II.	Clark's Clinet al. Harri	nical Medicine	. 10 <sup>th</sup> Edition. 20 es of Internal Med	20. dicine	20 <sup>th</sup> Edition	

	2. Jameson JL et al. Harrison's Principles of Internal Medicine. $20^{\text{m}}$ Edi	ition
	McGrawHill Professional, 2018.	
<b>Optional literature:</b>	1. Steven Agabegi. Elizabeth Agabegi. Step up to medicine. 5th edition	ı

Additional information	Monitoring methods of teaching quality:		
about the course	- student questionnaire		
	- quality analysis by students and teachers		
	- exam results analysis		
	- report of the office for teaching quality		
	- external evaluation (visit of team for quality control)		

## Annexes: calendar classes

The number of	TOPICS AND LITERATURE
teaching units	
Ι.	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
II.	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
III.	Title: Treatment of rhythm disturbances. Disease of peripheral arteries and veins
	Short description: ECG Tachycardia and Bradycardia Rhythm Disorders
	Literature: required and optional
IV.	Title: Chronic obstructive pulmonary disease. Pneumonia. TBC of lungs.
	Short description: Examination methods in pulmonology. Diseases of the interstitium and
	diaphragm
	Literature: required and optional
<i>V</i> .	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
VI.	Title: Diagnostic approach in gastroenterology; Ulcer. Gastroesophageal reflux. Inflammatory
	bowel disease.
	Short description: Abdominal pain. Malabsorption. Diarrhea. Obstipation.
	Literature: required and optional
VII.	Title: Hemochromatosis. Wilson's disease. Primary biliary cirrhosis. Bilious lithiasis. Viral
	hepatitis. Liver cirrhosis. Liver transplantation
	Short description: Portal Hypertension. Ascites. Spontaneous bacterial peritonitis
	Literature: required and optional
VIII.	Title: Gastrointestinal bleeding. Functional intestinal diseases. Pancreatitis
	Short description: Tumors of the esophagus, stomach, pancreas. Colorectal cancer. Liver and
	Dillary lumor
IV	Title: Diagnosis of Danal Diagnosa. Chronic renal insufficiency
1.	Short description: A sute Danel Insufficiency. Deplecement thereby for renal insufficiency
	Inflammation of the urinary system
	Literature: required and ontional
Y	Title: Glomerular disease Arterial hypertension Tubulointerstitial diseases
	Short description: Secondary Glomerular Disease Nenbrolithiasis kidney tumors
	Literature: required and ontional
XI	Title: The hematonoietic system. Transfusion
	Short description: Diagnostic Methods in Hematology
	Literature: required and ontional
XII	Title: Hemostasis disorders. Myeloid diseases. Lymphocytic diseases
	Short description: Hemorrhagic Diathesis Anticoagulant Treatment Thrombonhilia
	Granulocytopenia granulocytosis eosinophilia erythrocytosis thrombocytosis Increased
	lymph node lymphocytosis. Anemia
	Literature: required and optional
XIII	Title: Introduction to Endocrinology. Thyroid diseases. Diseases of the adrenal cortex
	Short description: The Importance of Laboratory in Endocripology
	Literature: required and optional
	Enormation required and optional

XIV.	Title: Diseases of the hypothalamic-pituitary system. Disorders of calcium metabolism
	Short description: Diseases of the gonads (reproductive glands). Pheochromocytoma -
	endocrine tumors. Hyperlipoproteinemia. Metabolic bone diseases.
	Literature: required and optional
XII.	Title: Diabetes mellitus. Therapy with insulin and oral antidiabetic drugs
	Short description: Acute complications of diabetes. Control of diabetes
	Literature: required and optional
	Literature: required and optional
XIV.	Title: Systemic lupus erythematosus. Rheumatoid arthritis. Vasculitis.
	Short description: Laboratory methods in clinical immunology and rheumatology. Sjögren's
	syndrome. Reactive arthritis. Psoriatic arthritis.
	Literature: required and optional
XII.	Title: Seronegative spondyloarthritides (Ankylosing spondylitis). Osteoarthritis. Extra-
	articular rheumatism.
	Short description: Polymyositis/dermatomyositis. MCTD (Mixed Connective Tissue Disease).
	Polymyalgia rheumatic. Systemic sclerosis
	Literature: required and optional

## List of lectures:

- L(1): Introduction to internal medicine.
- L(2): Laboratory tests. EF proteins. ABS. Urine.
- L(3):EKG (normal and pathologic).
- L(4): Congenital heart disease and valvular disease.
- L(5): Coronary heart disease.
- L(6): Heart failure
- L(7): Peripheral vascular disease
- L(8): Pneumonias.
- L(9): Pulmonary embolism.
- L(10): Lung and bronchial tumors.
- L(11): Esophageal, gastric and duodenal disease
- L(12): Liver diseases.
- L(13): Peptic ulcer disease & GI bleeding.
- L(14): Colorectal cancer
- L(15): Inflammatory Bowel Disease.
- L(16): Diverticular disease
- L(17): Viral hepatitis.
- L(18): Acute, chronic & AI pancreatitis.
- L(19): Biliary tract diseases
- L(20): Celiac disease.
- L(21): Anemias
- L(21): Malignant disease of the myeloid system.
- L(22): Malignant disease of the lymphatic system.
- L(23): Acute leukemia, diagnosis, clinic presentation and treatment.
- L(24): Thyroid gland disorders
- L(25): Diabetes.
- L(26): Reproductive system disorders.
- L(27): Rheumatoid arthritis.
- L(28): Polymiositis, dermatomyositis. Vasculitis.
- L(29): SLE. Sy Sjogren.
- List of seminars:
- S(1): Endocarditis, myocarditis, rheumatic fever.
- S(2): Arrhythmias, sudden death.
- S(3): Diagnostic procedures in cardiology. Heart electrophysiology.
- S(4): Cardiopulmonary resuscitation. Cardiogenic shock.
- S(5): Pericardial disease.
- S(6): Respiratory insufficiency and emergencies
- S(7): Intestinal lung disease.
- S(8): Bronchitis, asthma and pulmonary emphysema.
- S(9): Arterial hypertension
- S(10): Acute renal failure
- S(11): Chronic renal failure

S(12): Drugs and kidney S(13):Glomerulonephritis. S(14):Nephrolithiasis S(15): Endoscopic procedures. S(16): Tumors of the digestive system. S (17): IBS. S(18): Clostridium difficile infection. S(19): Anticoagulant and thrombolytic therapy. S(20): Hemorrhagic syndrome and hemophilia. S(21): Chronic leukemia, diagnosis, clinic presentation and treatment. S(22): Granulocyte, monocyte and macrophage diseases. S(23): Hypercoagulability. DIC S(24): Adrenal gland disorders. S(25): Pituitary gland disorders. S(26):Parathyroid gland. S(27): Osteoporosis, Paget disease& hereditary connective tissue diseases . S(28): Obesity

S(29): Metabolic diseases.

S(30): Multiple endocrine glands disorders.

S(31): Seronegative spondyloarthritis.

S(32): Sarcoidosis. Amyloidosis

Exercises – Clinical practicals:

Exercises are held in all organizational units of the Department of Internal Medicine and follow the topics of lectures and seminars.