Name of the course	Neurology			Code	MSE404		
Type of study program:	Integrated uni	versity study program,	Medicine	Year of study:	4		
Credits (ECTS):	6	Semester:	VIII	Number of hours per semester (l+s+e)	90 (24+23+43)		
Status of the course:	obligatory	Preconditions:	Passed all exams of the 3 rd year	Comparative conditions:	/		
Access to course:	Fourth year students			Hours of instructions:	According to schedule		
Course teacher:		Ass. Prof. Nataša Pejanović-Škobić, MD, PhD					
Consultations:		As agreed with students					
E-mail address and phone number: Associate teachers		natasa.pejanovic@gmail.com, natasa.pejanovic@mef.sum.ba +387 63 297 971, +387 63 319 593 Assistant Professor IngeKlupka-Sarić, MD, PhD,neurologist					
		Assistant Professor Nikolina Pravdić, MD, PhD, neurologist Assistant Davor Batinić, MD, MSc, neurologist Assistant Marija Bender, MD, MSc, neurologist Professor Silvio Bašić, MD, PhD, neurologist (Zagreb,Croatia) Professor Anđelko Vrca, MD, PhD, neurologist (Zagreb,Croatia)					
Consultations:		As agreed with students					
<i>E-mail address and phone number: The aims of the course:</i> The aims of		ingeklupkasaric@skbm.ba, nikolinavladic@yahoo.com, dbatinic1234@gmail.com, marijabender@yahoo.com, sbasic@kbd.hr, avrca1715@net.hr The course are to achieve knowledge of the fundamental principles of					
	mechanisms, evaluation of neurological c of nervous sy for checking r	pand knowledge and s clinical symptoms, laboratory findings, diseases, as well as to stem dysfunction and nervous system function	differential d and rational t acquaint studen the basic neuro	liagnostic conclu reatment of the nts with the symp pological methods	usions, critical most common ptoms and signs		
Learning outcomes (general and specific competences):	 General outcomes To be able to plan independent learning through study in a way of critical and self-critical questioning of scientific truths To demonstrate possession of personal qualities (teamwork and personal contribution, interest, active listening and building of positive relationships with group members) Specific outcomes To enable students to perform a complete neurological examination of the patient and to be able to recognize the signs of impaired neurological functions To enable students to distinguish the signs and symptoms of central and peripheral nervous system disorders To enable students to distinguish motor disorders from sensory disorders within the central nervous system, and to distinguish the signs of pyramidal and extrapyramidal motor disorders within the motor system To enable students to examine each individual quality of sensation, within the signs of disorders of the sensory system To enable students to recognize emergencies in neurology and to be able to correctly apply the recommended methods and procedures for acting in emergencies in neurology To enable students to use and explain findings from specific neurological methods and procedures in confirming and ruling out nervous system disorders 						

Course content	Neurology course c	consists of le	ectures, seminars a	nd practical	exercise	es. Testing of	
(Syllabus):	Neurology course consists of lectures, seminars and practical exercises. Testing knowledge is done by preliminary exam (examination of the neurological patie						
	written and oral final exam.						
Format of instruction (mark in bold)	Lectures Exercis		ses	Seminars		ndependent ssignments	
	Consultations	Work w	vith	Field work		Other	
	Constitutions	mentor		I ICIU WOIK			
Student responsibilities	Students need to prepare actively for participating in seminars and practicals. Presence on the lectures, seminars and practicals is obligatory. Student can miss only 20% of the selected topics (reasonable grounds). After finishing the course students have to gathersignature of the Course leader / Chair of the Department in Index (before written exam) as prove they have finished the Course and have prerequisite for the final exam.						
Screening student work (mark in bold)	Class Class partendance		articipations Seminar es		ssay	Practical training	
	Oral exam	Writter	n exam	Continuou assessmen		Essay	
Detailed evaluation withi	n a European system o	of points					
STUDENTS RESPONSIBILITIES	HOURS	HOURS		PROPORTIONS OF ECTS CREDITS		PROPORTIONS OF GRADE	
Class attendance and participations	90		3		0%		
Practical exam	15	15		0.5		0%	
Written exam	30		1		30%		
Oral exam	45		1.5		70%		
Total	180	180		6		100%	
requirement for approachin ongoing academic year. A finished within 5 days afte Written exam: 45-50 points - excellent (5 40-44 points - very good (4 34-39 ponits - good (3) - (4 28-33 points - satisfactory 0-27 points - fail (1) - (F) Oral exam: excellent (5) - Final course grade is calcu	ArterArterArterArter) - (A)(A)(A)4) - (B)(C)(2) - (D)(A); very good (4) - (E)lated based on written	ve to take tl itten exam. 3); good (3)	ne written exam a - (C); satisfactory	gain. The wh (2) - (D); fail	ole exa	am should be	
Required literature:	Recommended: Simon RP, Aminoff MJ, Greenberg DA. Clinical Neurology. 10th Edition. New York: Lange Medical Books/McGraw Hill, 2018.						
Optional literature:	Mattle H. Mumenthaler M. Fundamentals of Neurology, An illustrated Guide, Second edition. Thieme, 2017. Adams AC. Mayo Clinic Essential Neurology. Rochester (2nd edition): Mayo Foundation for Medical Education and Research, 2017. Fuller G. Neurological Examination Made Easy. Sixth Edition. Elsevier, 2019.						
Additional information about the course	Monitoring methods of teaching quality: - 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

teaching units	TOPICS AND LITERATURE
<i>I</i> .	Title: Introduction to Neurology. Case history of neurological patient
	Short description:
	Literature: Recommended and supplementary
	Title: Examination of neurological patient - Crania nerves
	Short description:
	Literature: Recommended and supplementary
II.	Title: Functional neuroanatomy
	Short description:
	Literature: Recommended and supplementary
	Title: Examination of neurological patient - Motor system
	Short description:
	Literature: Recommended and supplementary
	Title: Examination of neurological patient - Sensory system
	Short description:
	Literature: Recommended and supplementary
III.	Title: Cerebrovascular disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Cerebrovascular disorders - clinical picture
	Short description:
	Literature: Recommended and supplementary
	Title: Ultrasound of the head and neck blood vessels
	Short description:
	Literature: Recommended and supplementary
IV	Title: Movement disorders
I V	
	Short description: Literature: Recommended and supplementary
	Title: Movement disorders - clinical picture
	Short description:
	Literature: Recommended and supplementary
	Title: Pain and pain syndromes
	Short description:
77	Literature: Recommended and supplementary
V	Title: Dementia
	Short description:
	Literature: Recommended and supplementary
	Title: Clinical picture of patient with dementia
	Short description:
	Literature: Recommended and supplementary
	Title: Brain stem syndromes
	Short description:
	Literature: Recommended and supplementary
VI	Title: Intensive care neurology
	Short description:
	Literature: Recommended and supplementary
	Title: Spinal disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Genetics of neurological diseases
	Short description:

VII	Title: Demyelinating disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Treatment of multiple sclerosis
	Short description:
	Literature: Recommended and supplementary
	Title: Localization in clinical neurology
	Short description:
	Literature: Recommended and supplementary
VIII	Title: Comma and brain death
V 111	Short description:
	Literature: Recommended and supplementary
	Title: Autonomic nervous system disorders - selected topics
	Short description:
	Literature: Recommended and supplementary
	Title: Emergency neurology
	Short description:
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IV	Literature: Recommended and supplementary Title: Headache and cranial neuralgias
IX	
	Short description:
	Literature: Recommended and supplementary
	Title: Low back pain
	Short description:
	Literature: Recommended and supplementary
	Title: Diagnosis of cerebrospinal fluid
	Short description:
	Literature: Recommended and supplementary
X	Title: Neuromuscular disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Electromyoneurography
	Short description:
	Literature: Recommended and supplementary
	Title: CNS infections
	Short description:
	Literature: Recommended and supplementary
XI	Title: Central nervous system tumors
	Short description:
	Literature: Recommended and supplementary
	Title: Paraneoplastic neurologic syndromes
	Short description:
	Literature: Recommended and supplementary
	Title: Consciousness and disturbances of consciousness
	Short description:
	Literature: Recommended and supplementary
XII	Title: Epilepsy and paroxysmal consciousness disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Epilepsy - clinical picture. Electroencephalography
	Short description:
	Literature: Recommended and supplementary