

<i>Name of the course</i>	Neurology			Code	
<i>Type of study program Cycle</i>	Integrated university study, medicine			Year of study	Fourth (IV) year
<i>Credits (ECTS) :</i>	6	<i>Semester</i>	VII	Number of hours per semester (l+e+s)	Total: 90 h lectures (L): 24 h seminars (S): 25h practicals (P): 41 h
<i>Status of the course:</i>	mandatory	<i>Preconditions:</i>		<i>Comparative conditions:</i>	/
<i>Access to course:</i>	Third year students			<i>Hours of instructions:</i>	According to schedule
<i>Course teacher:</i>	Ass. Prof. Nataša Pejanović-Škobić, MD, PhD				
<i>Consultations:</i>	As agreed with students				
<i>E-mail address and phone number:</i>	natasa.pejanovic@gmail.com , natasa.pejanovic@mef.sum.ba +387 63 297 971, +387 63 319 593				
<i>Associate teachers</i>	Assistant Professor IngeKlupka-Sarić, MD, PhD, neurologist Assistant Professor NikolinaPravdić, MD, PhD, neurologist Assistant DavorBatinić, 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)				
<i>Consultations:</i>	As agreed with students				
<i>E-mail address and phone number:</i>	ingeklupkasaric@skbm.ba , nikolinavladic@yahoo.com , dbatinic1234@gmail.com , marijabender@yahoo.com , sbasic@kbd.hr , avrca1715@net.hr				
<i>The aims of the course:</i>	The aims of the course are: <ul style="list-style-type: none"> • To learn the meaningful approach to the case history, neurological status and clinical way of making a decision in neurology • To encourage the independent gaining of knowledge • To learn how to present patients verbally • To prepare concise and clear neurological medical findings • To learn how to carry out the neurological status and how to differentiate normal findings and neurological disturbances • To learn how to localise the site of lesion in the central nervous system which could cause the patient's symptoms and signs • To learn how to formulate the differential diagnosis • To learn how to perform lumbar puncture 				

	<ul style="list-style-type: none"> To learn how to order and interpret findings of usual examinations which are being used in diagnostics of neurological diseases To understand the principles of treatment of the most frequent neurological disorders 			
Learning outcomes (general and specific competences):	<p><u>General outcomes</u></p> <ul style="list-style-type: none"> 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) <p><u>Specific outcomes</u></p> <ul style="list-style-type: none"> To enable students to be able 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 be able to distinguish the signs and symptoms of central and peripheral nervous system disorders Within the signs of the central nervous system to know how to distinguish motor disorders from sensory disorders, and within motor disorders the signs of pyramidal and extrapyramidal motor disorders Within the signs of disorders of the sensory system to be able to examine each individual quality of sensation To enable students to examine the disorder of autonomic and higher nervous functions 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 			
Course content (Syllabus):	Neurology course consists of lectures, seminars and practical exercises. Testing of knowledge is done by preliminary exam (examination of the neurological patient), written and oral final exam.			
Format of instruction (mark in bold)	Lectures	Exercises	Seminars	Independent assignments
	Consultations	Work with mentor	Field work	Other
Student responsibilities	<p>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 gather signature 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.</p> <p>Written exam consists of multiple choice questions. Passing the written exam is a requirement for approaching the oral exam. The results of the</p>			

	written exam are acknowledged by the end of the ongoing academic year. After that, students have to take the written exam again. The whole exam should be finished within 5 days after completion of the written exam.			
Screening student work <i>(mark in bold)</i>	Class attendance	Class participations	Seminar essay	Practical training
	Oral exam	Written exam	Continuous assessment	Essay
Detailed evaluation within a European system of points				
STUDENTS RESPONSIBILITIES	HOURS	PROPORTIONS OF ECTS CREDITS	PROPORTIONS OF GRADE	
Class attendance and participations	lectures (L): 24 hours	1	0%	
Seminar essay	seminars (S): 25 hours	1	15 %	
Practical exercises	practicals (P): 41 hours	1	15 %	
Written exam	1 hours	1	30 %	
Oral exam	3 hours	2	40 %	
Further clarification:				
Final score: The final assessment is carried out according to the Regulation of Studies of the University of Mostar and applies to all study groups. According to the Regulations on studying final grade is obtained as follows: A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3 D = 55 to 66% 2 F = 0 to 54% 1				
Required literature:	Recommended: Simon RP, Aminoff MJ, Greenberg DA. Clinical Neurology. 10th Edition. New York: Lange Medical Books/McGraw Hill, 2018.			
Optional literature:	Supplementary: 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				

Annexes: calendar classes

The number of	TOPICS AND LITERATURE
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<i>teaching units</i>	
I.	Title: Introduction to Neurology
	Short description:
	Literature: Recommended and supplementary
	Title: 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
	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
	Title: Movement disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Movement disorders - clinical picture
	Short description:
	Literature: Recommended and supplementary
	Title: Pain and pain syndromes
	Short description:
	Literature: Recommended and supplementary
	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
	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:
	Literature: Recommended and supplementary
VII	Title: Demyelinating disorders
	Short description:
	Literature: Recommended and supplementary
	Title: Treatment of multiple sclerosis
	Short description:
	Literature: Recommended and supplementary
	Title: Localisation in clinical neurology
	Short description:
	Literature: Recommended and supplementary
VIII	Title: Comma and brain death
	Short description:
	Literature: Recommended and supplementary
	Title: Autonomic nervous system disorders - selected topics
	Short description:
	Literature: Recommended and supplementary
	Title: Emergency neurology
	Short description:
	Literature: Recommended and supplementary
IX	Title: Headache and cranial neuralgias
	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
	Short description:
	Literature: Recommended and supplementary

	Title: Electroencephalography
	Short description:
	Literature: Recommended and supplementary