

<i>Name of the course</i>	<b>Neurosurgery</b>			<b>Code</b>	
<i>Type of study program Cycle</i>	Integrated study program, medicine			<b>Year of study</b>	V.
<i>Credits (ECTS) :</i>	<b>0,5</b>	<i>Semester</i>	I.	Number of hours per semester (1+s+e)	15 (5+5+5)
<i>Status of the course:</i>	mandatory	<i>Preconditions:</i>	Passed all exams of the 4 <sup>th</sup> year	<i>Comparative conditions:</i>	
<i>Access to course:</i>	Fifth year students			<i>Hours of instructions:</i>	
<i>Course teacher:</i>	Goran Lakičević, MD, PhD				
<i>Consultations:</i>					
<i>E-mail address and phone number:</i>	<a href="mailto:goran.laki@gmail.com">goran.laki@gmail.com</a>				
<i>Associate teachers</i>					
<i>Consultations:</i>	An hour before and after the lectures				
<i>E-mail address and phone number:</i>					
<i>aims of the course:</i>	The objectives of this course are: to introduce medical students with basic facts about neurosurgery, introduce to the concepts of neurosurgical procedures, diagnoses and treatment.				
<i>Learning outcomes (general and specific competences):</i>	Students will develop knowledge of clinical examination of a neurosurgical patient, of diagnostic and therapeutic procedures to treat patients with injuries and/or diseases of central and/or peripheral nervous system, of the degree to which a neurosurgery is urgent, types of neurosurgeries, their successfulness or possible complications.				
<i>Course content (Syllabus):</i>	Introduction to neurosurgery; History of neurosurgery; Diagnostic procedures in neurosurgery (history taking, clinical neurological examination, EMG, EEG, CT, MRI, LM); Principles of neurosurgical treatment (trepanation, craniotomy, pain treatment; Space-compressive intracranial processes-patophysiology of intracranial space (ICP, different types of impaction and signs); Intracranial tumors- neurooncology; Hydrocephalus in children and adults – circulation of CS fluid; Differential diagnosis of neurosurgical diseases; Children neurosurgery; Cerebrovascular surgery; Craniocerebral injuries- neurotraumatology; Intracranial haematoma; Concussion-contusion- pressing of the brain; Glasgow coma scale score (GCS score). Diseases and injuries of the spine and spinal cord. Discoradicular conflict C 5, 6, 7, 8/ L2, 3, 4, 5, S1. Prognosis and rehabilitation of neurosurgical patients.				
	<b>Lectures</b>	<b>Exercises</b>	<b>Seminars</b>	<b>Independent assignments</b>	

<b>Format of instruction</b> (mark in bold)	<b>Consultations</b>	<b>Work with mentor</b>	Field work	Other
	Remarks: Students are required to attend guards in the emergency unit under the supervision of licensed surgeon.			
<b>Student responsibilities</b>	In accordance to Rules of studying and Deontological code for Mostar University Medical School students			
<b>Screening student work</b> (mark in bold)	<b>Class attendance</b>	<b>Class participations</b>	Seminar essay	<b>Practical training</b>
	<b>Oral exam</b>	<b>Written exam</b>	Continuous assessment	Essay
<b>Detailed evaluation</b> within a <i>European system of points</i>				
<b>STUDENTS RESPONSIBILITIES</b>	<b>HOURS</b>	<b>PROPORTIONS OF ECTS CREDITS</b>	<b>PROPORTIONS OF MARK</b>	
Class attendance and participations	(5+5+5) 15	0	0%	
Written exam	10	0,3	60%	
Oral exam	5	0,2	40%	
Total	15	0,5		
Written and oral test. According to the regulations of the study, final grade on the test 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>	Rotim K., Sajko T. Neurokirurgija. ZVU; 2010.			
<b>Optional literature:</b>	1. Paladino J. Kompendij neurokirurgije. Zagreb: Naklada Ljevak; 2004. Rotim K. Neurotraumatologija. Zagreb: Medicinska naklada; 2006.			
<b>Additional information about the course</b>	Methods of monitoring the quality of teaching: Student survey Quality control analysis Analysis of exam results External evaluation (teams for quality control)			

Annexes: calendar classes

<b>The number of teaching units</b>	<b>TOPICS AND LITERATURE</b>
<b>I.</b>	Title: History of neurosurgery; Diagnostic procedures in neurosurgery
	Short description: history taking, clinical neurological examination, EMG, EEG, CT, MRI, LM
	Literature: mandatory and optional
<b>II.</b>	Title: Principles of neurosurgical treatment
	Short description: trepanation, craniotomy, pain treatment; Space-compressive intracranial processes-patophysiology of intracranial space (ICP, different types of impaction and signs)
	Literature: mandatory and optional

<b>III.</b>	Title: Intracranial tumors-neurooncology; Hydrocephalus in children and adults
	Short description: circulation of CS fluid; Differential diagnosis of neurosurgical diseases; Children neurosurgery; Cerebrovascular surgery; Craniocerebral injuries-neurotraumatology; Intracranial haematoma; Concussion-contusion-pressing of the brain; Glasgow coma scale score (GCS score). Diseases and injuries of the spine and spinal cord. Discoradicular conflict C 5, 6, 7, 8/ L2, 3, 4, 5, S1. Prognosis and rehabilitation of neurosurgical patients.
	Literature: mandatory and optional