

Name of the course	Neurosurgery			Code	MSE502
Type of study program	Integrated university study program, Medicine			Year of study	5
Credits (ECTS):	1	Semester	IX	Number of hours per semester (l+s+e)	25 (7+8+10)
Status of the course:	obligatory	Preconditions:	Passed all exams of the 4 th year	Comparative conditions:	/
Access to course:	Fifth year students			Hours of instructions:	According to schedule
Course teacher:	Assistant professor Goran Lakičević, MD, PhD				
Consultations:	As agreed with students				
E-mail address and phone number:	goran.laki@gmail.com				
Associate teachers	Prof. Josip Paladino, MD, PhD Assistant professor Vjerislav Peterković, MD, PhD Marko Bošnjak, MD Ivana Bulić, MD Anel Livaja, MD				
Consultations:	An hour before and after the lectures				
E-mail address and phone number:					
Aims of the course:	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.				
Learning outcomes (general and specific competences):	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.				
Course content (Syllabus):	Introduction to neurosurgery; History of neurosurgery; Diagnostic procedures in neurosurgery (history taking, clinical neurological examination, EMG, EEG, CT, MRI, LM); Principles of neurosurgical treatment (burr-holes, craniotomy, pain treatment; Space- compressive intracranial processes-pathophysiology 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 hematoma; 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.				
Format of instruction (mark in bold)	Lectures	Exercises	Seminars	Independent assignments	
	Consultations	Work with mentor	Field work	Other	
	Remarks: Students are required to attend in the emergency unit under the supervision of licensed surgeon.				
Student responsibilities	In accordance to Rules of studying and Deontological code for Mostar University Medical School students				
Screening student	Class attendance	Class participations	Seminar essay	Practical training	

work <i>(mark in bold)</i>	Oral exam	Written exam	Continuous assessment	Essay
Detailed evaluation within a <i>European system of points</i>				
STUDENTS RESPONSIBILITIES	HOURS	PROPORTIONS OF ECTS CREDITS	PROPORTIONS OF MARK	
Class attendance and participations	25	0.8	0%	
Written and oral exam	5	0.2	100%	
Written and oral test. According to the regulations of the study, final grade on the test is obtained as: 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:	Davor Mijatović, Željko Sutlić, Goran Augustin, Ivan Dobrić and colleagues, Surgery, 1st edition, Školska knjiga, 2022 - selected chapters			
Optional literature:	Presentations and handouts from lectures and seminars			
Additional information about the course	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

The number of teaching units	TOPICS AND LITERATURE
I.	Title: History of neurosurgery; Diagnostic procedures in neurosurgery
	Short description: history taking, clinical neurological examination, EMG, EEG, CT, MRI, LM
	Literature: mandatory and optional
II.	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
III.	Title: Intracranial tumors-neurooncology; Hydrocephalus in children and adults
	Short description: circulation of CS fluid; Differential diagnosis of neurosurgical diseases; Children neurosurgery; Cerebrovascular surgery.
	Literature: mandatory and optional
IV.	Title: Craniocerebral injuries-neurotraumatology
	Short description: 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